NV

First Quarter 2022 Groundwater Monitoring Summary Report

RR Extension Pipeline Release
Lea County, New Mexico
AP #55
Incident # nPAC0711749522

Prepared for:

dcp Midstream

6900 E. Layton Ave., Suite 900
Denver, CO 80237-3658

Prepared by:

TASMAN

6855 W. 119th Avenue
Broomfield, Colorado 80020

April 27, 2022

Table of Contents

Tables

Figures

Appendices

1. Introduction

This report summarizes the groundwater monitoring and remediation activities conducted during the first quarter 2022 at the RR-Extension pipeline release (Site) in Lea County, New Mexico (Figure 1). Tasman Geosciences (Tasman) performed these activities on behalf of DCP Midstream, LP (DCP). The field activities were conducted with the purpose of monitoring groundwater flow and quality conditions as well as assessing the presence of light non-aqueous phase liquid (LNAPL) hydrocarbons in the Site subsurface and performing groundwater remediation. Current Site conditions were evaluated from field data and analytical laboratory results collected during the reporting period on March 28 & 31, 2022.

2. Site Location and Background

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

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

LNAPL has historically been identified immediately above the water table at a depth of approximately 30-feet bgs within monitoring well locations to the south and east of the original release and excavation limits. However, subsequent to the first quarter 2015 monitoring event, LNAPL has not been observed within any of the Site monitoring wells. Investigation activities conducted at the Site include installation of groundwater monitoring wells and excavation during the time periods listed below:

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

Ongoing monitoring and sampling of the Site wells listed above has been conducted on a quarterly basis following installation.

Boring logs for the monitoring wells at the Site indicate that the subsurface geology is typical of unconsolidated fine-grained sand, silt, and clay sediments.

On April 27, 2017, on behalf of DCP, Tasman issued the *Request to Remove Chlorides from Groundwater Sampling Suite* request letter to the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) – Oil Conservation Division (NMOCD), to remove chloride analysis from the groundwater sampling requirements designated for the Site. As further detailed in the referenced request letter, basis for discontinuing chloride analysis was primarily supported by background concentrations present in groundwater at the Site, as well as chlorides not being associated with DCP gathering systems. DCP is currently awaiting written approval of the referenced request, however, the NMOCD did provide verbal approval following an associated discussion held on April 27, 2017, to reduce the frequency for sampling of chlorides from a quarterly schedule to a semi-annual sampling schedule, to be completed during the first and third quarter events of each calendar year starting March 2018.

3. Groundwater Monitoring

This section describes the field and laboratory activities performed during the first quarter 2022 groundwater monitoring event. Quarterly monitoring activities were conducted on March 28 & 31, 2022 and included Site-wide groundwater gauging and groundwater sampling. All Site wells were gauged and monitored on March 28, but the groundwater sample for MW-7 was inadvertently left out of the cooler shipment and was re-collected and shipped to the laboratory on March 31. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.

3.1 Groundwater and LNAPL Elevation Monitoring

Groundwater levels were measured in order to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater elevations at the Site. During the first quarter 2022, groundwater levels were measured at 16 monitoring well locations. Measurable LNAPL thicknesses were not observed during this monitoring event and have not been observed at the Site since the first quarter 2015. The presence of LNAPL will continue to be monitored in future groundwater sampling events, and historical LNAPL thicknesses have been provided in previous quarterly reports.

Groundwater levels were measured on the north side of the well casing to the nearest 0.01-foot using an oil-water interface probe (IP). Groundwater level data were later converted to elevation (feet above mean sea level [AMSL]). Measured groundwater levels and calculated groundwater elevations for this quarter and the previous three quarters are presented in Table 1.

A first quarter 2022 groundwater elevation contour map, included as Figure 3, indicates that groundwater flow at the Site generally trends to the southeast. The range of groundwater elevations, average elevation changes from the previous monitoring event, and the calculated average hydraulic gradient (using elevations from MW-13 and MW-6) at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	First Quarter 2022 (3/28/2022)
Maximum Elevation (Well ID)	3,505.67 (MW-13)
Minimum Elevation (Well ID)	3,504.98 (MW-6)
Average Change from Previous Monitoring Event – All Wells	-0.11 feet
Average Hydraulic Gradient (ft/ft) / (Well IDs)	0.003 (MW-13 to MW-6)

3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from each of the 16 monitoring wells using disposable polyethylene bailers.

A minimum of three well casing volumes of groundwater were purged from each monitoring well prior to collecting groundwater samples. Groundwater samples were placed in clean laboratory supplied containers for the selected analytical methods, packed in an ice-filled cooler and maintained at approximately four (4) degrees Celsius (°C) for transportation to the laboratory. Groundwater samples were then shipped under chain-of-custody procedures to Pace Analytical laboratory (Pace) in Mount Juliet, Tennessee, for analysis.

Water quality samples were submitted for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B.

Table 2 summarizes BTEX concentrations in groundwater samples collected during the reporting period. Historical analytical results up to and including the first quarter 2022 event are included in Appendix A and the laboratory analytical report for the first quarter 2022 is included in Appendix B. Analytical results are also displayed on Figure 4.

Analytical results/observations are summarized below:

- Benzene concentrations in groundwater samples from wells MW-2 (0.0273 milligrams per liter [mg/L]), MW-3 (0.387 mg/L), MW-4 (0.0255 mg/L), MW-5 (0.0161 mg/L and 0.0166 mg/L duplicate), MW-9 (0.386 mg/L), and MW-10 (0.115 mg/L) were in exceedance of the New Mexico Water Quality Control Commission (NMWQCC) standard of 0.005 mg/L. Benzene concentrations at the remaining 10 sample locations were reported below NMWQCC standards and/or below laboratory detection limits.
- Toluene, ethylbenzene, and total xylenes were not reported above the NMWQCC standard in any of the Site monitoring well locations (Table 2).
- Chlorides were reported above the NMWQCC standard of 250 mg/L at 14 of the 16 sampled locations.

3.3 Data Quality Assurance / Quality Control

A trip blank and field duplicate sample (MW-5) were collected during the first quarter 2022 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.

QA/QC items of note for the first quarter 2022 include the following:

- Target analytes were not detected in the trip blank.
- The parent and duplicate samples collected from MW-5 exhibited benzene concentrations of 0.0161 mg/L and 0.0166 mg/L, respectively, yielding a relative percent difference (RPD) of 3.06 % which is within the target range of 20%.

The overall QA/QC assessment, based on the data review and with the exceptions noted, indicate that data precision and accuracy are acceptable.

4. Remediation Activities

Mobile vacuum enhanced fluid recovery (EFR) and air sparge (AS) remediation events were conducted during the reporting period. AS remediation activities were initiated in conjunction with EFR as described in the following section to address residual dissolved phase BTEX concentrations at the Site.

4.1 Vacuum Enhanced Fluid Recovery and Air Sparge Remediation

Mobile EFR/AS events were conducted at the Site on March 29, 2022 which included application of high vacuum (using a vacuum truck) and compressed air (using a portable air compressor) to individual well points through EFR and AS downhole stinger pipe/tube assemblies. At the wells where EFR was being conducted, the stinger pipe was placed slightly below the groundwater level, thereby removing impacted groundwater and vapors from the subsurface.

Prior to conducting EFR activities, depth to water measurements were collected at monitoring wells that have historically contained LNAPL and/or the highest dissolved phase benzene concentrations (MW-3, MW-4, MW-9, and MW-10). LNAPL was not detected in any of the Site monitoring wells during the first quarter 2022.

On March 29, 2022, EFR was applied simultaneously to monitoring wells MW-4 and MW-10 for an approximate 8-hour period, which produced approximately 75 barrels (bbls) of groundwater. The recovered groundwater was transported for disposal at the Cooper Disposal Facility in Hobbs, New Mexico.

AS was applied simultaneously to well locations MW-3 and MW-9 on March 29, 2022 via a removable stinger assembly to enable sparge air to be introduced into the well column and formation below the water table. During the event, AS was applied to the wells for approximately 8-hours with a continuous average pressure of 30 pounds per square inch (psi) and a continuous flow of 22 - 25 cubic feet per minute (cfm).

5. Conclusions

Comparison of the first quarter 2022 monitoring data and historical information provides the following general observations:

- The groundwater elevation beneath the Site has remained relatively stable with minor seasonal and annual fluctuations since monitoring was initiated in 2008.
- Measurable amounts of LNAPL were not observed in any of the Site monitoring wells during the first quarter 2022. LNAPL has not been observed at the Site since the First Quarter 2015.
- Benzene concentrations continue to be reported above NMWQCC standards in monitoring wells MW-2, MW-3, MW-4, MW-5, MW-9, and MW-10. At MW-1, concentrations have historically fluctuated above and below NMWQCC standards, likely a result of fluctuating seasonal groundwater levels. However, benzene concentrations at MW-1 have been reported below NMWQCC standards since second quarter 2020. Benzene concentrations at MW-5 remained above NMWQCC standards for the third consecutive quarter after being below standards during the second quarter 2021. However, this well has historically exhibited concentrations greater than NMWQCC standards since 2009. An overall decreasing trend in benzene concentrations is observed by referencing historical data for this Site.
- Toluene, ethylbenzene, and total xylene levels were not observed above the NMWQCC standards in any of the Site monitoring well locations.
- Chloride was reported above the NMWQCC suggested guideline of 250 mg/L at 14 of the 16 monitoring well locations.

6. Recommendations

Based on evaluation of data from the first quarter 2022 and historical Site observations and monitoring results, recommendations for future activities include:

- Continue quarterly groundwater monitoring and sampling for BTEX at the monitoring well locations illustrated on Figure 2.
- Continue semi-annual sampling activities for chloride analysis to be conducted during the first (March) and third (September) quarter sampling events each calendar year.
- Following a hiatus in EFR/AS events at the beginning of 2020, quarterly EFR/AS efforts were resumed during the third quarter 2020 and have continued on a quarterly basis through first quarter 2022.
- Further EFR/AS remediation efforts will be assessed following the 2022 quarterly monitoring events to determine its effectiveness in reducing dissolved phase benzene concentrations

Tables

TABLE 1
FIRST QUARTER 2022
SUMMARY OF GROUNDWATER ELEVATION DATA
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW-1	06/21/2021	28.86			NM	3534.57	3505.71	-0.11
MW-1	09/27/2021	28.94			NM	3534.57	3505.63	-0.08
MW-1	12/20/2021	29.03			38.48	3534.57	3505.54	-0.09
MW-1	03/28/2022	29.08			38.48	3534.57	3505.49	-0.05
MW-2	06/21/2021	29.50			NM	3535.18	3505.68	-0.10
MW-2	09/27/2021	29.80			NM	3535.18	3505.38	-0.30
MW-2	12/20/2021	29.71			39.62	3535.18	3505.47	0.09
MW-2	03/28/2022	29.73			39.62	3535.18	3505.45	-0.02
MW-3	06/21/2021	30.68			NM	3536.57	3505.89	0.08
MW-3	09/27/2021	30.95			NM	3536.57	3505.62	-0.27
MW-3	12/20/2021	31.05			39.97	3536.57	3505.52	-0.10
MW-3	03/28/2022	31.07			39.97	3536.57	3505.50	-0.02
MW-4	6/2912021	29.89			NM	3535.20	3505.31	-0.14
MW-4	09/27/2021	30.02			NM	3535.20	3505.18	-0.13
MW-4	12/20/2021	30.10			40.04	3535.20	3505.10	-0.08
MW-4	03/28/2022	30.10			40.04	3535.20	3505.10	0.00
MW-5	06/21/2021	30.60			NM	3535.92	3505.32	-0.12
MW-5	09/27/2021	30.67			NM	3535.92	3505.25	-0.07
MW-5	12/20/2021	30.77			40.50	3535.92	3505.15	-0.10
MW-5	03/28/2022	30.81			40.50	3535.92	3505.11	-0.04
MW-6	06/21/2021	30.97			NM	3536.16	3505.19	-0.12
MW-6	09/27/2021	31.04			40.58	3536.16	3505.12	-0.07
MW-6	12/20/2021	31.10			40.58	3536.16	3505.06	-0.06
MW-6	03/28/2022	31.18			40.58	3536.16	3504.98	-0.08
MW-7	06/21/2021	30.68			NM	3537.09	3506.41	0.90
MW-7	09/27/2021	31.73			39.60	3537.09	3505.36	-1.05
MW-7	12/20/2021	31.84			40.20	3537.09	3505.25	-0.11
MW-7	03/28/2022	31.88			40.20	3537.09	3505.21	-0.04
MW-8	06/12/2021	30.59			NM	3536.41	3505.82	-0.12
MW-8	09/27/2021	30.65			38.58	3536.41	3505.76	-0.06
MW-8	12/20/2021	30.72			38.71	3536.41	3505.69	-0.07
MW-8	03/28/2022	30.80			38.71	3536.41	3505.61	-0.08
MW-9	06/21/2021	28.45			NM	3534.20	3505.75	-0.10
MW-9	09/27/2021	28.55			34.16	3534.20	3505.65	-0.10
MW-9	12/20/2021	28.65			38.02	3534.20	3505.55	-0.10
MW-9	03/28/2022	28.68			38.02	3534.20	3505.52	-0.03
MW-10	06/21/2021	28.70			NM	3534.21	3505.51	-0.10
MW-10	09/27/2021	28.80			38.35	3534.21	3505.41	-0.10
MW-10	12/20/2021	28.90			37.20	3534.21	3505.31	-0.10
MW-10	03/28/2022	28.93			37.20	3534.21	3505.28	-0.03
MW-11	06/21/2021	30.95			NM	3536.19	3505.24	-0.21
MW-11	09/27/2021	30.93			38.85	3536.19	3505.26	0.02
MW-11	12/20/2021	30.05			39.48	3536.19	3506.14	0.88
MW-11	03/28/2022	31.10			39.48	3536.19	3505.09	-1.05
MW-12	06/21/2021	29.15			NM	3534.47	3505.32	-0.20
MW-12	09/27/2021	29.21			33.88	3534.47	3505.26	-0.06
MW-12	12/20/2021	29.30			31.15	3534.47	3505.17	-0.09
MW-12	03/28/2022	29.37			31.15	3534.47	3505.10	-0.07
MW-13	06/21/2021	30.17			NM	3536.08	3505.91	-0.07
MW-13	09/27/2021	30.25			38.78	3536.08	3505.83	-0.08
MW-13	12/20/2021	30.33			38.74	3536.08	3505.75	-0.08
MW-13	03/28/2022	30.41			38.74	3536.08	3505.67	-0.08

TABLE 1
FIRST QUARTER 2022
SUMMARY OF GROUNDWATER ELEVATION DATA
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW-14	06/21/2021	29.29			NM	3534.96	3505.67	-0.09
MW-14	09/27/2021	29.37			40.92	3534.96	3505.59	-0.08
MW-14	12/20/2021	29.50			41.50	3534.96	3505.46	-0.13
MW-14	03/28/2022	29.55			41.50	3534.96	3505.41	-0.05
MW-15	06/21/2021	29.49			NM	3534.90	3505.41	-0.14
MW-15	09/27/2021	29.62			36.06	3534.90	3505.28	-0.13
MW-15	12/20/2021	29.68			36.56	3534.90	3505.22	-0.06
MW-15	03/28/2022	29.72			36.56	3534.90	3505.18	-0.04
MW-16	06/21/2021	29.39			NM	3533.68	3504.29	-1.14
MW-16	09/27/2021	28.46			42.30	3533.68	3505.22	0.93
MW-16	12/20/2021	28.55			42.30	3533.68	3505.13	-0.09
MW-16	03/28/2022	28.60			42.30	3533.68	3505.08	-0.05
							Average change in groundwater elevation (12/20/2021 to 3/28/2022)	-0.11

Notes:
1- 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.
amsl = feet above mean sea level
TOC = top of casing
Groundwater elevation = (TOC Elevation - Measured Depth to Water)
* Groundwater elevation was corrected for product thickness using the following calculation, when applicable:
Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)
LNAPL relative density is assumed to be approximately 0.75
NM = Not Measured NC = Not Calculated

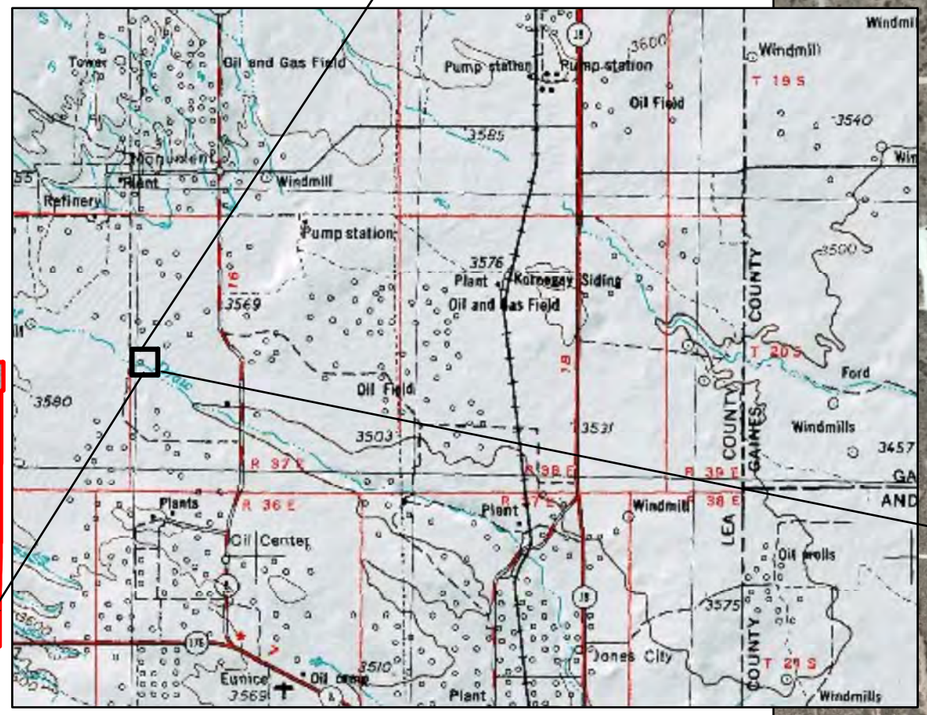
TABLE 2
FIRST QUARTER 2022
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

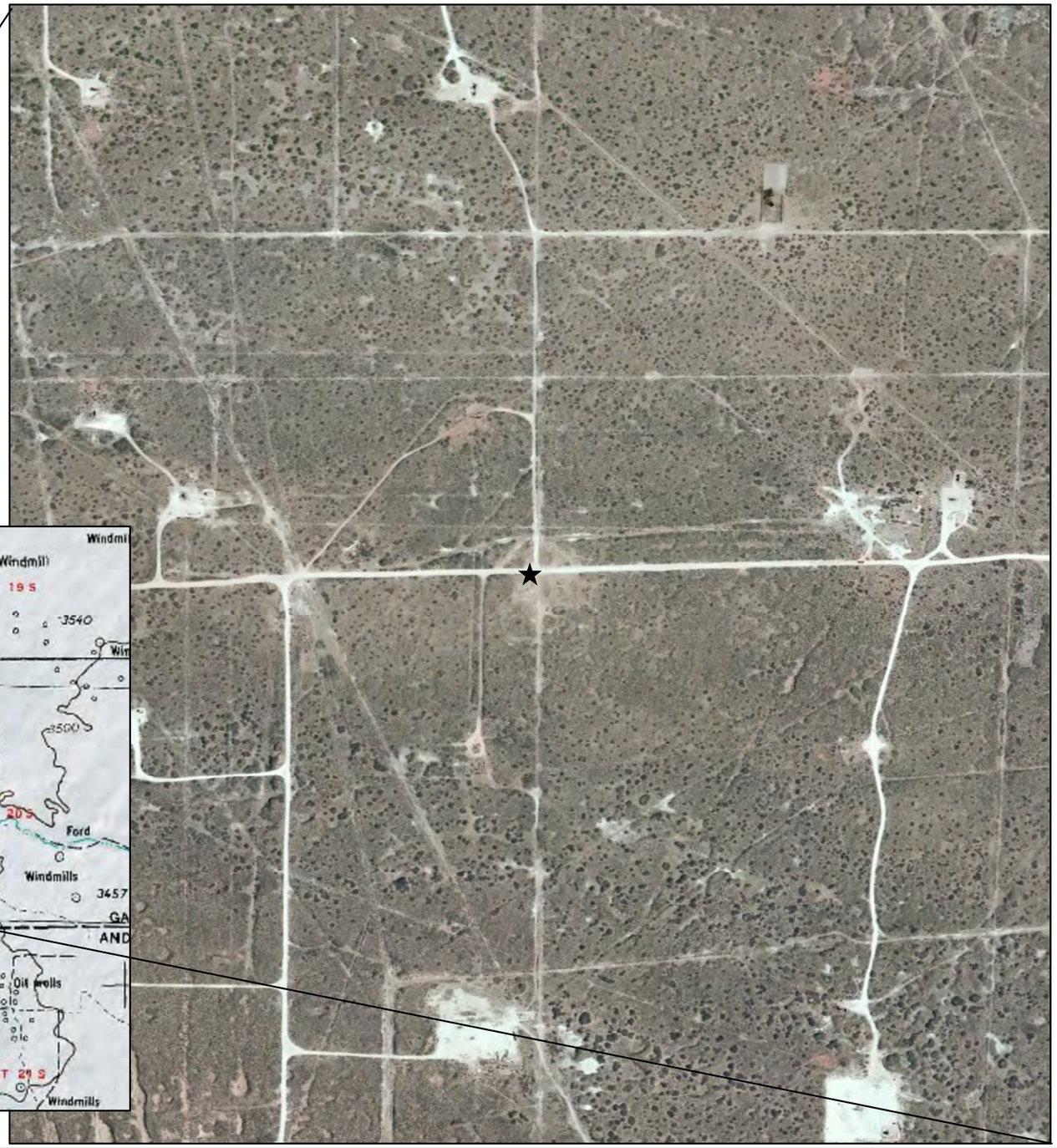
Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-1	03/28/2022	0.000477 J	<0.00100	0.000636 J	0.000997 J	**552**	
MW-2	03/28/2022	**0.0273**	<0.00100	0.00172	0.00256 J	**397**	
MW-3	03/28/2022	**0.387**	<0.0100	0.0742	0.166	**466**	
MW-4	03/28/2022	**0.0255**	<0.00100	0.0261	0.0251	235	
MW-5	03/28/2022	**0.01610**	0.000317 J	0.0227	0.0136	**485**	Duplicate Sample Collected
MW-5 (Duplicate)	03/28/2022	**0.0166**	<0.00500	0.0222	0.0171	**493**	
MW-6	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**412**	
MW-7	03/31/2022	<0.00100	<0.00100	<0.00100	<0.00300	10.7	
MW-8	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**1020**	
MW-9	03/28/2022	**0.386**	0.0399	0.0455	0.0927	**418**	
MW-10	03/28/2022	**0.115**	<0.00100	0.0161	0.0171	**506**	
MW-11	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**477**	
MW-12	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**496**	
MW-13	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**445**	
MW-14	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**446**	
MW-15	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**472**	
MW-16	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**630**	
Trip Blank	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	

Notes:
Bold red values indicate an exceedance of the NMWQCC groundwater standards for the Site.
NMWQCC = New Mexico Water Quality Control Commission
LNAPL = Light Non-Aqueous Phase Liquid
B = A qualifier indicating an analyte was detected in both the sample and the associated Method Blank (MB)
J = A qualifier indicating the identification of the analyte is acceptable; the reported value is an estimate.
NS = Not Sampled
NA = Not Analyzed
mg/L = milligrams per liter

Figures

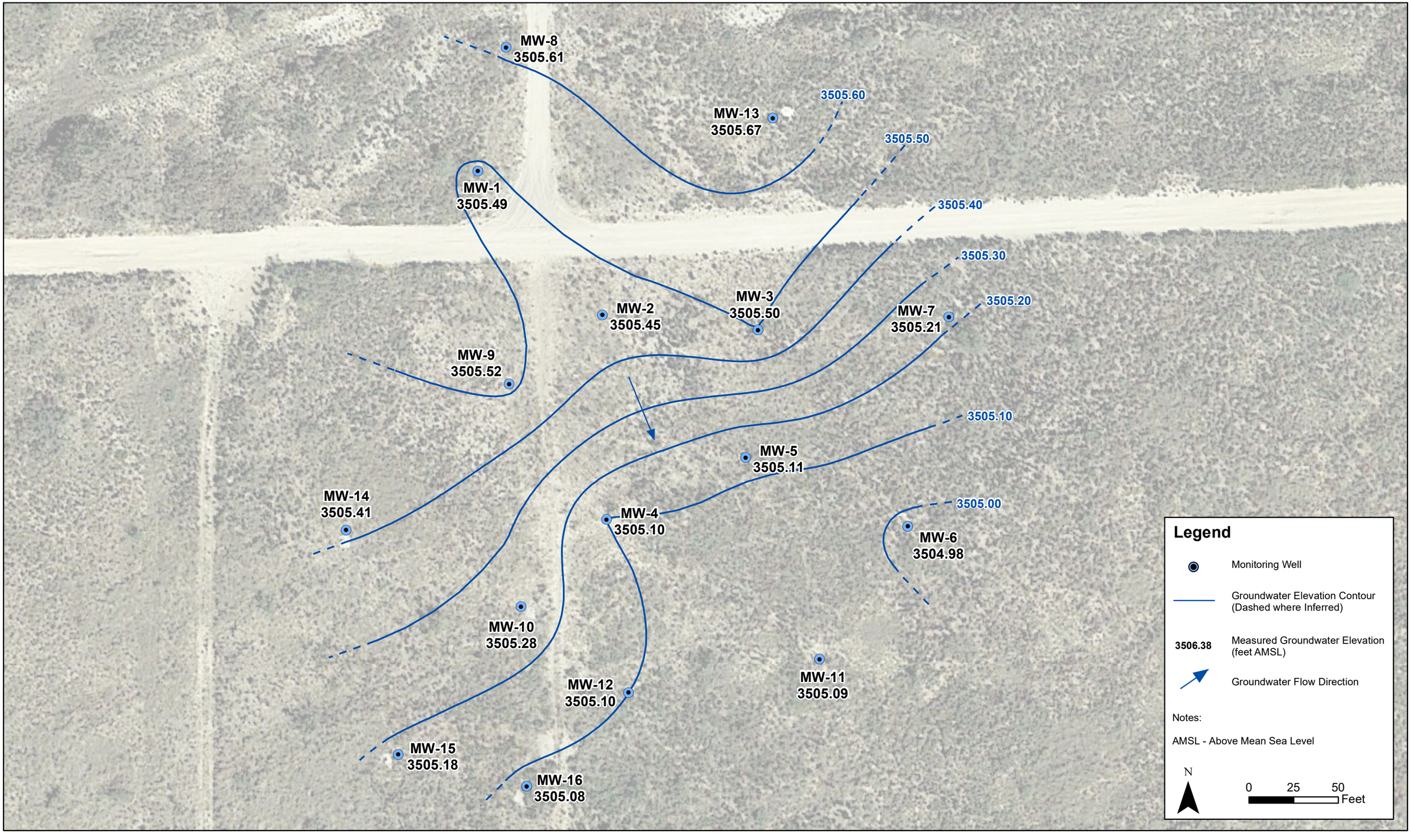
N



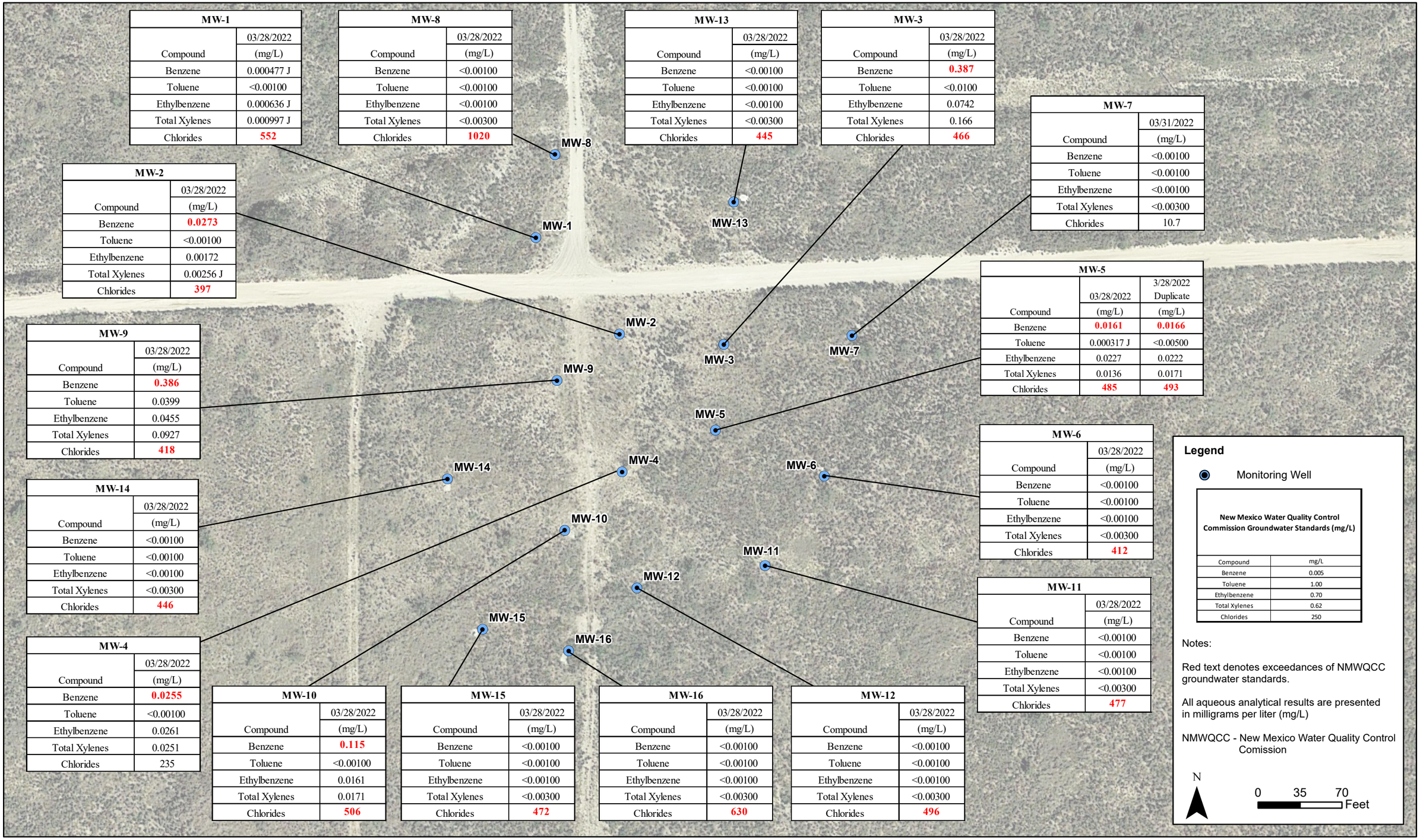


DATE: July 2015 DESIGNED BY: T. Johansen DRAWN BY: D. Arnold	TASMAN Tasman, Inc. 6855 W. 119th Ave Broomfield, CO 80020	**DCP Midstream** **RR-Extension Pipeline Release** NE 1/4, NW 1/4, Section 19, Township 20 South, Range 37 East Lea County, New Mexico	Site Location Map	Figure 1

DATE: December 2019 DESIGNED BY: B. Humphrey DRAWN BY: L. Martin	TASMAN **Tasman Geosciences, Inc.** **6855 W. 119th Ave** **Broomfield, CO 80020**	**DCP Midstream** **RR-Extension Pipeline Release** First Quarter 2022 Groundwater Monitoring Summary Report	Site Map with Monitoring Well Locations	Figure 2



DATE: April 2022 DESIGNED BY: B. Humphrey DRAWN BY: A. Dahl	TASMAN Tasman, Inc. 6855 W. 119th Ave Broomfield, CO 80020	**DCP Midstream** **RR-Extension Pipeline Release** First Quarter 2022 Groundwater Monitoring Summary Report	Groundwater Elevation Contour Map (March 28, 2022)	Figure 3



MW-1	
	03/28/2022
Compound	(mg/L)
Benzene	0.000477 J
Toluene	<0.00100
Ethylbenzene	0.000636 J
Total Xylenes	0.000997 J
Chlorides	**552**

MW-8	
	03/28/2022
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	**1020**

MW-13	
	03/28/2022
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	**445**

MW-3	
	03/28/2022
Compound	(mg/L)
Benzene	**0.387**
Toluene	<0.0100
Ethylbenzene	0.0742
Total Xylenes	0.166
Chlorides	**466**

MW-7	
	03/31/2022
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	10.7

MW-2	
	03/28/2022
Compound	(mg/L)
Benzene	**0.0273**
Toluene	<0.00100
Ethylbenzene	0.00172
Total Xylenes	0.00256 J
Chlorides	**397**

MW-5		
	03/28/2022	3/28/2022 Duplicate
Compound	(mg/L)	(mg/L)
Benzene	**0.0161**	**0.0166**
Toluene	0.000317 J	<0.00500
Ethylbenzene	0.0227	0.0222
Total Xylenes	0.0136	0.0171
Chlorides	**485**	**493**

MW-9	
	03/28/2022
Compound	(mg/L)
Benzene	**0.386**
Toluene	0.0399
Ethylbenzene	0.0455
Total Xylenes	0.0927
Chlorides	**418**

MW-6	
	03/28/2022
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	**412**

MW-14	
	03/28/2022
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	**446**

MW-11	
	03/28/2022
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	**477**

MW-4	
	03/28/2022
Compound	(mg/L)
Benzene	**0.0255**
Toluene	<0.00100
Ethylbenzene	0.0261
Total Xylenes	0.0251
Chlorides	235

MW-10	
	03/28/2022
Compound	(mg/L)
Benzene	**0.115**
Toluene	<0.00100
Ethylbenzene	0.0161
Total Xylenes	0.0171
Chlorides	**506**

MW-15	
	03/28/2022
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	**472**

MW-16	
	03/28/2022
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	**630**

MW-12	
	03/28/2022
Compound	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	**496**

Legend

Monitoring Well

New Mexico Water Quality Control Commission Groundwater Standards (mg/L)

Compound	mg/L
Benzene	0.005
Toluene	1.00
Ethylbenzene	0.70
Total Xylenes	0.62
Chlorides	250

Notes:

Red text denotes exceedances of NMWQCC groundwater standards.

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

NMWQCC - New Mexico Water Quality Control Comission

N

0 35 70 Feet

DATE: April 2022

DESIGNED BY: B. Humphrey

DRAWN BY: A. Dahl

TASMAN

Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

DCP Midstream
RR-Extension Pipeline Release
First Quarter 2022 Groundwater Monitoring Summary Report

Analytical Results Map
(March 28 & 31, 2022)

Figure
4

Appendix A

Historical Analytical Results

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-1	3/2008	**1.4**	0.0395	**0.948**	0.128	NA	
MW-1	6/2008	**2.75**	0.054	**2.17**	0.232	NA	
MW-1	9/2008	**1.1**	0.0375	**0.845**	0.131	**507**	
MW-1	12/2008	**0.869**	0.0385	0.581	0.0709	**447**	
MW-1	3/2009	**0.288**	0.0149	0.107	0.0395	**432**	
MW-1	5/2009	**1.38**	0.0705	0.175	0.065	**462**	
MW-1	9/2009	**0.267**	0.024	0.0332	0.0078	**422**	
MW-1	12/2009	**0.819**	0.088	0.0267	0.012	**363**	
MW-1	3/2010	**0.726**	0.0879	0.107	0.0278	**800**	
MW-1	6/2010	**0.339**	0.0539	0.0329	0.0079	**510**	
MW-1	9/2010	**1.99**	0.0951	0.084	0.0219	**442**	
MW-1	12/2010	**0.708**	0.0796	0.0099	0.0047	**448**	
MW-1	03/30/2011	**0.0241**	<0.001	0.0136	0.0055	**457**	
MW-1	06/22/2011	**0.0735**	<0.01	0.0293	<0.02	**467**	
MW-1	09/17/2011	**0.144**	0.038	0.0069	0.0087	**472**	Duplicate sample collected
MW-1	12/08/2011	**0.076**	0.002	0.0227	0.0024	**462**	Duplicate sample collected
MW-1	03/10/2012	**0.029**	<0.002	0.0072	<0.004	**497**	Duplicate sample collected
MW-1	06/05/2012	**0.069**	0.0014	0.0112	<0.003	**470**	Duplicate sample collected
MW-1	09/09/2012	**0.0216**	<0.002	0.0029	<0.003	**465**	Duplicate sample collected
MW-1	12/04/2012	**0.0194**	<0.002	0.0024	<0.003	**445**	Duplicate sample collected
MW-1	02/22/2013	0.0063	<0.002	0.00066	<0.003	**474**	Duplicate sample collected
MW-1	06/02/2013	**0.0313**	<0.002	0.0028	<0.003	**451**	Duplicate sample collected
MW-1	09/10/2013	0.0092	<0.002	0.0016	<0.003	**400**	Duplicate sample collected
MW-1	12/03/2013	0.0067	<0.002	0.00075	<0.003	**458**	Duplicate Sample Collected
MW-1	02/27/2014	**0.0449**	<0.002	0.0044	<0.003	**474**	Duplicate Sample Collected
MW-1 (duplicate)	02/27/2014	**0.0331**	<0.002	0.0037	<0.003	**489**	
MW-1	06/03/2014	**0.0157**	<0.002	0.0018 J	<0.003	**466**	Duplicate Sample Collected
MW-1 (duplicate)	06/03/2014	**0.0157**	<0.002	0.0017 J	<0.003	**488**	
MW-1	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-1	12/01/2014	**4.94**	0.33	0.332	0.271	**361**	Duplicate Sample Collected
MW-1 (duplicate)	12/01/2014	**5.58**	0.455	0.384	0.3435	**350**	
MW-1	02/25/2015	**0.68**	0.0013	0.065	0.0048	**458**	Duplicate Sample Collected
MW-1 (duplicate)	02/25/2015	**0.56**	0.0013	0.062	0.0043	**452**	
MW-1	06/01/2015	**0.015**	<0.001	0.0067	<0.003	**488**	Duplicate sample collected
MW-1 (duplicate)	06/01/2015	**0.015**	0.0096	0.012	0.022	**502**	
MW-1	08/31/2015	0.0019	<0.001	<0.001	<0.003	**461**	Duplicate sample collected
MW-1 (duplicate)	08/31/2015	0.0013	<0.001	<0.001	<0.003	**460**	
MW-1	12/14/2015	<0.001	<0.001	<0.001	<0.003	**455**	Duplicate sample collected
MW-1 (duplicate)	12/14/2015	<0.001	<0.001	<0.001	<0.003	**457**	
MW-1	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**453**	Duplicate sample collected
MW-1 (duplicate)	03/21/2016	0.0031	<0.0010	0.0013	<0.0030	**473**	
MW-1	06/20/2016	0.0036	<0.0010	<0.0010	<0.0030	**454**	
MW-1	09/29/2016	**1.4**	**4.8**	**1.1**	**2.4**	122	
MW-1	12/19/2016	**1.8**	0.026	0.5	0.21	**312**	
MW-1	03/06/2017	**0.6**	<0.010	0.19	<0.01	**434**	
MW-1	06/19/2017	0.0057	<0.0010	0.018	<0.001	**431**	
MW-1	09/25/2017	**0.778**	0.147	**0.833**	**0.672**	189	
MW-1	12/19/2017	**0.412**	<0.010	0.167	0.0378	**366**	
MW-1	03/13/2018	0.00552	<0.0010	0.00698	<0.0030	**399**	
MW-1	06/25/2018	0.00357	<0.0010	0.00231	0.00276 J	**415**	
MW-1	09/19/2018	**0.0162**	0.00187	0.00586	0.00917	**432**	
MW-1	12/11/2018	0.00430	<0.0010	0.00129	0.00191	NA	
MW-1	03/19/2019	0.00611	0.000492 J	0.00285	0.00342	**437**	
MW-1	06/03/2019	0.00469	0.000621 J	0.00272	0.00333	NA	
MW-1	09/23/2019	**0.0162**	0.00190	0.0180	0.0201	**473**	
MW-1	12/11/2019	**0.0360**	0.00890	0.0151	0.0300	NA	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-1	06/15/2020	0.00275	0.000289 J	0.00279	0.00309	NA	
MW-1	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**508**	
MW-1	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-1	03/29/2021	0.000803 J	<0.00100	0.00106	0.00106 J	505	
MW-1	06/21/2021	0.000326 J	<0.00100	0.000317	0.000214 J	NA	
MW-1	09/27/2021	0.000970 J	<0.00100	0.00103	0.000591 J	**552**	
MW-1	12/20/2021	0.00166 J	<0.00100	0.000325 J	0.000183 J	NA	
MW-1	03/28/2022	0.000477 J	<0.00100	0.000636 J	0.000997 J	**552**	
MW-2	3/2008	**8.98**	0.135	**6.58**	**0.765**		
MW-2	6/2008	**24.3**	0.319	**18.5**	**2.58**		
MW-2	9/2008	**21.7**	0.443	**9.79**	**4.25**	109	
MW-2	12/2008	Not Sampled: Remediation Activities					
MW-2	3/2009	**23.7**	0.538	**2.34**	**1.25**	114	
MW-2	5/2009	**32.7**	**0.791**	**1.31**	**1.69**	109	
MW-2	9/2009	**29.3**	0.491	**0.771**	0.371	139	
MW-2	12/2009	**28.5**	0.57	0.347	0.177	199	
MW-2	3/2010	**23.8**	0.529	0.71	<1.2	**700**	
MW-2	6/2010	**22.9**	0.485	0.39	0.128	233	
MW-2	9/2010	**17**	0.329	0.257	<0.8	**263**	
MW-2	12/2010	**16.9**	0.458	0.399	0.0926	**278**	
MW-2	03/30/2011	**16.6**	0.165	0.403	0.116	**320**	
MW-2	06/22/2011	**9.21**	0.0231	0.377	<0.4	**370**	
MW-2	09/17/2011	**4.07**	0.415	0.329	0.203	**375**	
MW-2	12/08/2011	**1.5**	0.0436	0.33	0.0254	**392**	
MW-2	03/10/2012	**1.04**	<0.04	0.134	<0.08	**444**	
MW-2	06/05/2012	**1.25**	0.106	0.158	0.0885	**346**	
MW-2	09/09/2012	**1.53**	0.203	0.138	0.14	**393**	
MW-2	12/04/2012	**1.26**	0.115	0.0854	0.116	**385**	
MW-2	02/22/2013	**4.53** [3]	0.474	0.298	0.482	**386**	
MW-2	06/02/2013	**1.25**	0.0582	0.0644	0.103	**406**	
MW-2	09/10/2013	**4.47**	0.374	0.226	0.375	**339**	
MW-2	12/03/2013	**0.9**	0.0569	0.0442	0.0671	**414**	
MW-2	02/27/2014	**4.41** [3]	0.599	0.312	0.493	**411**	
MW-2	06/03/2014	**0.842** [3]	0.05	0.0609	0.101	**440**	
MW-2	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-2	12/01/2014	**0.164**	0.0132	0.007	0.0106	**440**	
MW-2	02/25/2015	**4.3**	0.64	0.28	0.55	**370**	
MW-2	06/01/2015	**3.4**	0.48	0.28	0.37	**364**	
MW-2	08/31/2015	**1.4**	0.29	0.064	0.12	**347**	
MW-2	12/14/2015	**0.51**	0.079	0.033	0.059	**371**	
MW-2	03/21/2016	**1.5**	0.31	0.11	0.24	**355**	
MW-2	06/20/2016	**3.4**	0.7	0.16	0.3	**367**	
MW-2	09/26/2016	**1.1**	0.37	0.099	0.081	**382**	
MW-2	12/19/2016	**0.17**	0.033	0.035	0.02	**396**	
MW-2	03/06/2017	<0.0010	<0.0010	<0.0010	0.0026	**401**	
MW-2	06/19/2017	**0.18**	0.046	0.0031	0.059	**348**	
MW-2	09/25/2017	**1.45**	0.173	0.123	0.302	**354**	
MW-2	12/19/2017	**0.485**	0.0129	0.0441	0.122	**409**	
MW-2	03/13/2018	**0.0304**	0.00163	0.0024	0.00596	**352**	
MW-2	06/25/2018	**0.52**	0.00579 B J	0.0559	0.152	**296**	
MW-2	09/19/2018	**0.0659**	<0.0010	0.00527	0.0136	**283**	
MW-2	12/11/2018	**0.135**	<0.0010	0.0109	0.0304	NA	
MW-2	03/19/2019	**0.0427**	<0.0010	0.000671 J	0.00371	235	
MW-2	06/04/2019	**0.0335**	<0.0010	0.00392	0.00921	NA	
MW-2	09/23/2019	**0.0694**	0.000436 J	0.00789	0.0167	190	
MW-2	12/11/2019	**0.0714**	<0.0010	0.0137	0.0343	NA	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-2	06/15/2020	**0.102**	0.000298 J	0.00683	0.0152	NA	
MW-2	09/21/2020	**0.0335**	<0.00100	<0.0010	0.000749 J	**309**	
MW-2	12/14/2020	**0.0439**	<0.00100	0.000486 J	0.00216 J	NA	
MW-2	03/29/2021	**0.0212**	<0.00100	0.000330 J	0.000116 J	339	
MW-2	06/21/2021	**0.0506**	<0.00100	0.000283 J	0.00149 J	NA	
MW-2	09/27/2021	**0.0221**	<0.00100	0.000504 J	0.000750 J	**380**	
MW-2	12/20/2021	**0.00815**	<0.00100	0.000166 J	0.000573 J	NA	
MW-2	03/28/2022	**0.0273**	<0.00100	0.00172	0.00256 J	**397**	
MW-3	3/2008	**0.759**	0.0355	**0.849**	0.0786		
MW-3	6/2008	**6.18**	0.287	**9.46**	**1.23**		
MW-3	9/2008	**2.45**	0.145	**3.62**	**114**	**363**	
MW-3	12/2008	**0.761**	0.0492	**0.938**	0.158	**301**	
MW-3	3/2009	**4.03**	0.18	**2.83**	0.61	**273**	
MW-3	5/2009	**14.7**	**0.808**	**12.6**	**1.64**	**313**	
MW-3	9/2009	**5.5**	0.271	**1.09**	<0.006	**363**	
MW-3	12/2009	**13.1**	**1.2**	**9.08**	**2.87**	**398**	
MW-3	3/2010	**8.43**	**1.01**	**9.14**	**2.71**	**440**	
MW-3	6/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	9/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	12/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	03/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	06/22/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	09/17/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	12/08/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	03/10/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	06/05/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	09/09/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	12/04/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	02/22/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	06/02/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	09/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	12/03/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	02/27/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	06/03/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-3	12/01/2014	**4.47**	**0.844**	0.529	**1.308**	NS	
MW-3	02/25/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	06/01/2015	**3.2**	**0.95**	0.72	**2.9**	**391**	
MW-3	08/31/2015	**3**	0.31	0.3	0.5	**382**	
MW-3	12/14/2015	**4.7**	**2**	**0.9**	**2.7**	**381**	
MW-3	03/21/2016	**2.8**	**0.81**	0.54	**1.4**	**387**	
MW-3	06/20/2016	**2.2**	0.34	0.36	0.35	**386**	
MW-3	09/26/2016	**2.2**	0.62	0.72	**1.2**	**412**	
MW-3	12/19/2016	**3.7**	0.56	0.6	**1.1**	**434**	
MW-3	03/06/2017	**1.4**	0.07	0.32	0.14	**406**	
MW-3	06/19/2017	**2.5**	0.13	0.68	0.36	**393**	
MW-3	09/25/2017	**2.18**	0.0676	0.33	0.243	**400**	
MW-3	12/19/2017	**3.81**	0.396	**0.863**	**1.02**	**418**	
MW-3	03/13/2018	**1.71**	<0.10	0.225	0.280 J	**398**	
MW-3	06/25/2018	**3.19**	0.143	0.560	**0.662**	**378**	
MW-3	09/19/2018	**1.82**	0.0546	0.364	0.273	**405**	Duplicate Sample Collected
MW-3 (Duplicate)	09/19/2018	**1.61**	0.0765	0.226	0.378	**399**	
MW-3	12/11/2018	<0.0010	0.106	0.312	0.343	NA	
MW-3	03/19/2019	**1.31**	0.127	0.250	0.285	**386**	
MW-3	06/04/2019	**0.759**	0.0413	0.106	0.149	NA	
MW-3	09/23/2019	**2.89**	0.124	0.323	0.385	**359**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-3	12/11/2019	**0.578**	0.0148	0.0863	0.0978	NA	
MW-3	06/15/2020	**2.71**	<0.0050	0.556	**0.703**	NA	
MW-3	09/21/2020	**1.44**	<0.0500	0.202	0.295	412	
MW-3	12/14/2020	**1.60**	<0.0500	0.247	0.42	NA	
MW-3	03/29/2021	**0.47**	<0.0100	<0.0100	0.168	424	
MW-3	06/21/2021	**1.22**	<0.0100	0.101	0.288	NA	
MW-3	09/27/2021	**1.13**	<0.0100	0.121	0.286	**452**	
MW-3	12/20/2021	**0.492**	<0.0500	0.0826	0.199	NA	
MW-3	03/28/2022	**0.387**	<0.0100	0.0742	0.166	**466**	
MW-4	3/2008	**0.0102**	<0.002	0.0093	0.0023		
MW-4	6/2008	**0.0439**	0.0068	0.0256	0.0147		
MW-4	9/2008	**0.514**	0.0203	0.443	0.125	**318**	
MW-4	12/2008	**1.32**	0.0812	**1.35**	0.239	**281**	
MW-4	3/2009	**3.61**	0.164	**3.4**	**0.831**	**229**	
MW-4	5/2009	**4.7**	0.428	**2.94**	**1.03**	**226**	
MW-4	9/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	3/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	6/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	9/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	03/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	06/22/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	09/17/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/08/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	03/10/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	06/05/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	09/09/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/04/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	02/22/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	06/02/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	09/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/03/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	02/27/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	06/03/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-4	12/01/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	02/25/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	06/01/2015	**0.59**	**1.3**	0.71	**2.2**	**289**	
MW-4	08/31/2015	**0.089**	0.031	0.036	0.12	**287**	
MW-4	12/14/2015	**0.43**	0.38	0.63	**1.8**	**280**	
MW-4	03/21/2016	**0.44**	0.3	**0.82**	**2.3**	**286**	
MW-4	06/20/2016	**0.036**	0.0016	0.029	0.052	**314**	
MW-4	09/26/2016	**0.038**	<0.0010	0.0068	0.02	**305**	
MW-4	12/19/2016	**0.41**	0.023	0.38	**0.88**	**310**	
MW-4	03/06/2017	0.0052	<0.0050	0.0051	0.0083	**341**	
MW-4	06/19/2017	**0.034**	<0.0050	0.098	0.26	**319**	
MW-4	09/25/2017	**0.727**	<0.5	0.722	**1.02**	**314**	
MW-4	12/19/2017	**0.285**	0.0118	**1.22**	**2.83**	**338**	
MW-4	03/13/2018	**0.0508**	<0.010	0.104	0.239	**349**	
MW-4	06/25/2018	**0.187**	<0.0050	0.426	**0.779**	**321**	
MW-4	09/19/2018	**0.0103**	<0.0010	0.0148	0.0318	**330**	
MW-4	12/11/2018	**0.0889**	<0.0010	0.0955	0.210	NA	
MW-4	03/19/2019	**0.235**	<0.0010	0.232	0.392	**307**	
MW-4	06/04/2019	**0.0582**	<0.0010	0.0337	0.0503	NA	
MW-4	09/23/2019	**0.205**	0.000725	0.122	0.204	**294**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-4	12/11/2019	**0.0418**	<0.0100	<0.0100	0.0307	NA	
MW-4	06/15/2020	**0.373**	<0.0100	0.275	0.382	NA	
MW-4	09/21/2020	**0.00789**	<0.00100	0.00433	0.00390	**315**	
MW-4	12/14/2020	**0.00566**	<0.00100	0.0316	0.0348	NA	
MW-4	03/29/2021	**0.00789**	<0.00100	0.00506	0.00464	277	
MW-4	06/21/2021	**0.0538**	<0.00100	0.0283	0.02390	NA	
MW-4	09/27/2021	**0.0518**	<0.00100	0.0315	0.0257	**252**	
MW-4	12/20/2021	**0.0158**	<0.00100	0.0153	0.0126	NA	
MW-4	03/28/2022	**0.0255**	<0.00100	0.0261	0.0251	235	
MW-5	3/2008	0.0019	<0.002	0.0012	<0.006		
MW-5	6/2008	0.0037	<0.002	0.0037	<0.006		
MW-5	9/2008	0.0038	<0.002	0.0037	<0.006	**373**	
MW-5	12/2008	0.0031	<0.002	0.004	<0.006	**318**	
MW-5	3/2009	0.0067	<0.002	0.0074	<0.006	**288**	
MW-5	5/2009	0.0064	<0.002	0.0089	<0.006	**363**	
MW-5	9/2009	0.0082	0.00066	0.0132	<0.006	**358**	
MW-5	12/2009	0.0096	0.0013	0.0155	0.0021	**313**	
MW-5	3/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	6/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	9/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	12/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	03/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	06/22/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/17/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	12/08/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	03/10/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	06/05/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/09/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	12/04/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	02/22/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	06/02/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	12/03/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	02/27/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	06/03/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-5	12/01/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	02/25/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	06/01/2015	**0.5**	**1.9**	**1.4**	**4**	**424**	
MW-5	08/31/2015	**0.024**	0.027	0.061	0.091	**741**	
MW-5	12/14/2015	**0.36**	**0.83**	**0.83**	**2.2**	**407**	
MW-5	03/21/2016	**0.19**	0.56	0.72	**2.3**	**413**	
MW-5	06/20/2016	**0.19**	0.49	0.69	**2**	**410**	Duplicate Sample Collected
MW-5 (Duplicate)	06/20/2016	**0.054**	0.14	0.23	**0.66**	**410**	
MW-5	09/26/2016	**0.093**	0.29	0.29	**0.88**	**432**	Duplicate Sample Collected
MW-5 (Duplicate)	09/26/2016	**0.16**	0.47	0.49	**1.5**	**444**	
MW-5	12/19/2016	**0.091**	0.04	0.46	**1.3**	**427**	Duplicate Sample Collected
MW-5 (Duplicate)	12/19/2016	**0.15**	0.072	**0.79**	**2.2**	**447**	
MW-5	03/06/2017	**0.029**	0.0051	0.17	0.4	**417**	Duplicate Sample Collected
MW-5 (Duplicate)	03/06/2017	**0.039**	0.0064	0.15	0.55	**429**	
MW-5	06/19/2017	**0.05**	<0.0050	**0.32**	**0.82**	**402**	
MW-5 (Duplicate)	06/19/2017	**0.04**	0.0012	0.15	0.38	**408**	
MW-5	09/25/2017	**0.0174**	0.00102	0.0779	0.175	**422**	Duplicate Sample Collected
MW-5 (Duplicate)	09/25/2017	**0.0229**	<0.0050	0.116	0.267	**401**	
MW-5	12/19/2017	**0.0541**	0.00155	0.517	**1.28**	**426**	Duplicate Sample Collected
MW-5 (Duplicate)	12/19/2017	**0.050**	<0.0050	0.459	**1.16**	**466**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-5	03/13/2018	**0.04**	<0.020	0.188	0.481	**433**	Duplicate Sample Collected
MW-5 (Duplicate)	03/13/2018	**0.0306**	<0.0050	0.159	0.415	**428**	
MW-5	06/25/2018	0.00685	<0.0010	0.0365	0.0831	**399**	Duplicate Sample Collected
MW-5 (Duplicate)	06/25/2018	**0.0244**	0.000663 J	0.0829	0.183	**421**	
MW-5	09/19/2018	**0.14**	0.0145 J	0.507	**1.08**	**421**	
MW-5	12/11/2018	**0.0702**	0.0152 J	0.111	0.218	NA	Duplicate Sample Collected
MW-5 (Duplicate)	12/11/2018	**0.101**	0.00984	0.186	0.401	NA	
MW-5	03/19/2019	**0.0536**	<0.020	0.206	0.464	**421**	Duplicate Sample Collected
MW-5 (Duplicate)	03/19/2019	**0.0628**	0.0021 J	0.231	0.515	**434**	
MW-5	06/04/2019	**0.03**	<0.0050	0.0996	0.222	NA	Duplicate Sample Collected
MW-5 (Duplicate)	06/04/2019	**0.0266**	<0.0050	0.0807	0.175	NA	
MW-5	09/23/2019	**0.0503**	<0.0010	0.129	0.267	**443**	Duplicate Sample Collected
MW-5 (Duplicate)	09/23/2019	**0.0388**	<0.0050	0.114	0.228	**435**	
MW-5	12/11/2019	**0.0721**	0.0326	0.155	0.376	NA	Duplicate Sample Collected
MW-5 (Duplicate)	12/11/2019	**0.0657**	0.0132	0.139	0.324	NA	
MW-5	06/15/2020	**0.0662**	<0.0010	0.0859	0.148	NA	Duplicate Sample Collected
MW-5 (Duplicate)	06/15/2020	**0.0668**	<0.0010	0.0825	0.137	NA	
MW-5	09/21/2020	**0.0215**	<0.0100	0.0423	0.0698	**463**	Duplicate Sample Collected
MW-5 (Duplicate)	09/21/2020	**0.0123**	<0.0010	0.0205	0.0325	**463**	
MW-5	12/14/2020	**0.0631**	<0.0100	0.0533	0.0740	NA	Duplicate Sample Collected
MW-5 (Duplicate)	12/14/2020	**0.0647**	<0.0010	0.0547	0.0757	NA	
MW-5	03/29/2021	**0.00996**	<0.00100	0.0164	0.0163	461	Duplicate Sample Collected
MW-5 (Duplicate)	03/29/2021	**0.0174**	<0.00100	0.0237	0.0235	473	
MW-5	06/21/2021	0.00472	<0.00100	0.00813	0.00589	NA	Duplicate Sample Collected
MW-5 (Duplicate)	06/21/2021	0.00335	<0.00100	0.0063	0.00469	NA	
MW-5	09/27/2021	**0.049**	0.000313 J	0.00459	0.00274 J	**484**	Duplicate Sample Collected
MW-5 (Duplicate)	09/27/2021	**0.0247**	0.000295 J	0.0188	0.00996	**478**	
MW-5	12/20/2021	**0.00571**	<0.00100	0.00992	0.00590	NA	Duplicate Sample Collected
MW-5 (Duplicate)	12/20/2021	**0.00834**	<0.00100	0.0135	0.00808	NA	
MW-5	03/28/2022	**0.01610**	0.000317 J	0.0227	0.0136	**485**	Duplicate Sample Collected
MW-5 (Duplicate)	03/28/2022	**0.0166**	<0.00500	0.0222	0.0171	**493**	
MW-6	6/2008	<0.002	<0.002	<0.002	<0.006		
MW-6	9/2008	<0.002	<0.002	<0.002	<0.006	**363**	
MW-6	12/2008	<0.002	<0.002	<0.002	<0.006	**325**	
MW-6	3/2009	<0.002	<0.002	<0.002	<0.006	**298**	
MW-6	5/2009	<0.002	<0.002	<0.002	<0.006	**308**	
MW-6	9/2009	<0.002	<0.002	<0.002	<0.006	**296**	
MW-6	12/2009	<0.002	<0.002	<0.002	<0.006	**393**	
MW-6	3/2010	<0.002	<0.002	<0.002	<0.006	**700**	
MW-6	6/2010	<0.001	<0.002	<0.002	<0.002	**402**	
MW-6	9/2010	<0.001	<0.002	<0.002	<0.004	**337**	
MW-6	12/2010	<0.001	<0.002	<0.002	<0.004	**359**	
MW-6	03/30/2011	<0.001	<0.002	<0.002	<0.002	**386**	
MW-6	06/22/2011	<0.001	<0.002	<0.002	<0.004	**376**	
MW-6	09/17/2011	<0.001	<0.002	<0.002	<0.004	**383**	
MW-6	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**372**	
MW-6	03/10/2012	<0.001	<0.002	<0.002	<0.004	**406**	
MW-6	06/05/2012	<0.001	<0.002	<0.002	<0.003	**381**	
MW-6	09/09/2012	<0.001	<0.002	<0.002	<0.003	**377**	
MW-6	12/04/2012	<0.001	<0.002	<0.002	<0.003	**358**	
MW-6	02/22/2013	<0.001	<0.002	<0.002	<0.003	**385**	
MW-6	06/02/2013	<0.001	<0.002	<0.002	<0.003	**372**	
MW-6	09/10/2013	<0.001	<0.002	<0.002	<0.003	**367**	
MW-6	12/03/2013	<0.001	<0.002	<0.002	<0.003	**373**	
MW-6	02/27/2014	<0.001	<0.002	<0.002	<0.003	**395**	
MW-6	06/03/2014	<0.001	<0.002	<0.002	<0.003	**390**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-6	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-6	12/01/2014	<0.001	<0.001	<0.001	<0.003	**358**	
MW-6	02/25/2015	<0.001	<0.001	<0.001	<0.003	**389**	
MW-6	06/01/2015	<0.001	<0.001	<0.001	<0.003	**417**	
MW-6	08/31/2015	<0.001	<0.001	<0.001	<0.003	**400**	
MW-6	12/14/2015	<0.001	<0.001	<0.001	<0.003	**391**	
MW-6	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**385**	
MW-6	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**412**	
MW-6	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**392**	
MW-6	12/19/2016	<0.0010	<0.0010	<0.0010	0.0024	**405**	
MW-6	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**401**	
MW-6	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**386**	
MW-6	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**370**	
MW-6	12/19/2017	0.000607 J	<0.0010	<0.0010	<0.0030	**347**	
MW-6	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**365**	
MW-6	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**381**	
MW-6	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**367**	
MW-6	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-6	03/19/2019	<0.0010	<0.0010	<0.0010	<0.0030	**346**	
MW-6	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-6	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**387**	
MW-6	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-6	06/15/2020	0.000119 J	<0.0010	<0.0010	<0.0030	NA	
MW-6	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**412**	
MW-6	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-6	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	384	
MW-6	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-6	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**388**	
MW-6	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-6	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**412**	
MW-7	6/2008	<0.002	<0.002	<0.002	<0.006		
MW-7	9/2008	<0.002	<0.002	<0.002	<0.006	**378**	
MW-7	12/2008	<0.002	<0.002	<0.002	<0.006	**348**	
MW-7	3/2009	<0.002	<0.002	<0.002	<0.006	**283**	
MW-7	5/2009	<0.002	<0.002	<0.002	<0.006	**298**	
MW-7	9/2009	<0.002	<0.002	<0.002	<0.006	**273**	
MW-7	12/2009	<0.002	<0.002	<0.002	<0.006	**328**	
MW-7	3/2010	<0.002	<0.002	<0.002	<0.006	**750**	
MW-7	6/2010	0.0005	<0.002	<0.002	<0.006	**385**	
MW-7	9/2010	0.00042	<0.002	<0.002	<0.004	**326**	
MW-7	12/2010	<0.002	<0.002	<0.002	<0.006	**345**	
MW-7	03/30/2011	<0.001	<0.002	<0.002	<0.002	**382**	
MW-7	06/22/2011	<0.001	<0.002	<0.002	<0.004	**390**	
MW-7	09/17/2011	<0.001	<0.002	<0.002	<0.004	**374**	
MW-7	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**376**	
MW-7	03/10/2012	<0.001	<0.002	<0.002	<0.004	**392**	
MW-7	06/05/2012	<0.001	<0.002	<0.002	<0.003	**381**	
MW-7	09/09/2012	<0.001	<0.002	<0.002	<0.003	**362**	
MW-7	12/04/2012	<0.001	<0.002	<0.002	<0.003	**334**	
MW-7	02/22/2013	0.00059	<0.002	<0.002	<0.003	**363**	
MW-7	06/02/2013	<0.001	<0.002	<0.002	<0.003	**361**	
MW-7	09/10/2013	<0.001	<0.002	<0.002	<0.003	**332**	
MW-7	12/03/2013	<0.001	<0.002	<0.002	<0.003	**350**	
MW-7	02/27/2014	<0.001	<0.002	<0.002	<0.003	**358**	
MW-7	06/03/2014	<0.001	<0.002	<0.002	<0.003	**359**	
MW-7	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-7	12/01/2014	<0.001	<0.001	<0.001	<0.003	**332**	
MW-7	02/25/2015	<0.001	<0.001	<0.001	<0.003	**393**	
MW-7	06/01/2015	<0.001	<0.001	<0.001	<0.003	**371**	
MW-7	08/31/2015	<0.001	<0.001	<0.001	<0.003	**359**	
MW-7	12/14/2015	<0.001	<0.001	<0.001	<0.003	**338**	
MW-7	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**355**	
MW-7	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**379**	
MW-7	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**365**	
MW-7	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**358**	
MW-7	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**368**	
MW-7	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**342**	
MW-7	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**368**	
MW-7	12/19/2017	0.000562 J	<0.0010	<0.0010	<0.0030	**342**	
MW-7	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**346**	
MW-7	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**349**	
MW-7	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**366**	
MW-7	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-7	03/19/2019	<0.0010	<0.0010	<0.0010	<0.0030	**355**	
MW-7	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-7	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**410**	
MW-7	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-7	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-7	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**475**	
MW-7	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-7	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	371	
MW-7	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-7	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**389**	
MW-7	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-7	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	10.7	
MW-8	6/2008	**0.0384**	0.00049	0.0255	0.0016		
MW-8	9/2008	**0.0301**	<0.002	0.0161	0.002	**512**	
MW-8	12/2008	0.00233	<0.002	0.011	<0.006	**393**	
MW-8	3/2009	**0.0218**	<0.002	0.0066	<0.006	**472**	
MW-8	5/2009	0.0098	<0.002	0.0049	<0.006	**450**	
MW-8	9/2009	<0.002	<0.002	<0.002	<0.006	**477**	
MW-8	12/2009	<0.002	<0.002	<0.002	<0.006	**472**	
MW-8	3/2010	<0.002	<0.002	<0.002	<0.006	**800**	
MW-8	6/2010	<0.001	<0.002	<0.002	<0.002	**553**	
MW-8	9/2010	<0.001	<0.002	<0.002	<0.004	**486**	
MW-8	12/2010	<0.001	<0.002	<0.002	<0.004	**533**	
MW-8	03/30/2011	<0.001	<0.002	<0.002	<0.002	**529**	
MW-8	06/22/2011	<0.001	<0.002	<0.002	<0.004	**524**	
MW-8	09/17/2011	<0.001	<0.002	<0.002	<0.004	**507**	
MW-8	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**521**	
MW-8	03/10/2012	<0.001	<0.002	<0.002	<0.004	**528**	
MW-8	06/05/2012	<0.001	<0.002	<0.002	<0.003	**527**	
MW-8	09/09/2012	<0.001	<0.002	<0.002	<0.003	**509**	
MW-8	12/04/2012	<0.001	<0.002	<0.002	<0.003	**500**	
MW-8	02/22/2013	0.00048	<0.002	<0.002	<0.003	**530**	
MW-8	06/02/2013	<0.001	<0.002	<0.002	<0.003	**524**	
MW-8	09/10/2013	<0.001	<0.002	<0.002	<0.003	**489**	
MW-8	12/03/2013	<0.001	<0.002	<0.002	<0.003	**508**	
MW-8	02/27/2014	<0.001	<0.002	<0.002	<0.003	**521**	
MW-8	06/03/2014	<0.001	<0.002	<0.002	<0.003	**521**	
MW-8	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-8	12/01/2014	<0.001	<0.001	<0.001	<0.003	**498**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-8	02/25/2015	<0.001	<0.001	<0.001	<0.003	**523**	
MW-8	06/01/2015	<0.001	<0.001	<0.001	<0.003	**539**	
MW-8	08/31/2015	<0.001	<0.001	<0.001	<0.003	**517**	
MW-8	12/14/2015	<0.001	<0.001	<0.001	<0.003	**520**	
MW-8	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**494**	
MW-8	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**492**	
MW-8	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**508**	
MW-8	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**519**	
MW-8	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**517**	
MW-8	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**514**	
MW-8	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**499**	
MW-8	12/19/2017	0.000433 J	<0.0010	<0.0010	<0.0030	**540**	
MW-8	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**493**	
MW-8	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**562**	
MW-8	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**568**	
MW-8	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-8	03/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	**485**	
MW-8	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-8	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**637**	
MW-8	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-8	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-8	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**1090**	
MW-8	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-8	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	843	
MW-8	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-8	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**1220**	
MW-8	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-8	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**1020**	
MW-9	6/2010	LNAPL	LNAPL	LNAPL	LNAPL	**532**	
MW-9	9/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	03/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	06/22/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	09/17/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/08/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	03/10/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	06/05/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	09/09/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/04/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	02/22/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	06/02/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	09/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/03/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	02/27/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	06/03/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-9	12/01/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	02/25/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	06/01/2015	**3.9**	**5.6**	**1.8**	**5.2**	**408**	
MW-9	08/31/2015	**3.5**	**3.1**	0.73	**1.7**	**403**	
MW-9	12/14/2015	**4.6**	**4.6**	**0.77**	**1.8**	**389**	
MW-9	03/21/2016	**3.5**	**4.1**	**1.1**	**2.9**	**418**	
MW-9	06/20/2016	**4.4**	**5.4**	**1.1**	**3.2**	**417**	
MW-9	09/26/2016	**0.22**	0.044	0.094	0.19	**431**	
MW-9	12/19/2016	**0.32**	0.0015	0.051	0.071	**405**	
MW-9	03/06/2017	**0.92**	0.022	0.15	0.15	**378**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-9	06/19/2017	**2.2**	0.29	0.47	0.64	**360**	
MW-9	09/25/2017	**5.03**	0.26	**0.842**	**0.991**	**310**	
MW-9	12/19/2017	**4.01**	0.151	**0.871**	**0.752**	**373**	
MW-9	03/13/2018	**1.79**	<0.050	0.0738	0.249	**370**	
MW-9	06/25/2018	**2.59**	0.0228 J	0.146	0.260	**327**	
MW-9	09/19/2018	**1.56**	0.00981 J	0.157	0.195	**358**	
MW-9	12/11/2018	**1.73**	0.0123	0.108	0.198	NA	
MW-9	03/19/2019	**2.15**	0.0272	0.184	0.235	**347**	
MW-9	06/04/2019	**0.42**	0.0043 J	0.00726 J	0.0301	NA	
MW-9	09/23/2019	**0.211**	0.00206	0.00863	0.0214	**351**	
MW-9	12/11/2019	**0.0453**	0.00306	0.00481	0.0187	NA	
MW-9	06/15/2020	**1.39**	0.340	0.0830	0.211	NA	
MW-9	09/21/2020	**1.54**	0.406	0.0840	0.280	**370**	
MW-9	12/14/2020	**1.31**	0.284	0.0527	0.201	NA	
MW-9	03/29/2021	**0.599**	0.161	0.0285	0.116	394	
MW-9	06/21/2021	**1.19**	0.352	0.0748	0.250	NA	
MW-9	09/27/2021	**0.517**	0.0233	0.0128	0.086	**402**	
MW-9	12/20/2021	**0.425**	0.0704	0.0351	0.0904	NA	
MW-9	03/28/2022	**0.386**	0.0399	0.0455	0.0927	**418**	
MW-10	6-2010	LNAPL	LNAPL	LNAPL	LNAPL	**656**	
MW-10	9-2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	12-2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	03/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	06/22/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	09/17/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	12/08/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	03/10/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	06/05/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	09/09/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	12/04/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	02/22/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	06/02/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	09/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	12/03/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	02/27/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	06/03/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-10	12/01/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	02/25/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	06/01/2015	**0.75**	**1.7**	**1.6**	**3**	**563**	
MW-10	08/31/2015	**0.4**	0.046	0.6	**0.59**	**529**	
MW-10	12/14/2015	**1**	0.57	**0.98**	**2.6**	**521**	
MW-10	03/21/2016	<0.50 J	<0.50	0.51	**1.6**	**531**	
MW-10	06/20/2016	**0.93**	0.024	0.65	**2**	**520**	
MW-10	09/26/2016	**0.25**	0.0015	0.26	0.42	**531**	
MW-10	12/19/2016	**0.11**	0.0033	0.6	**1.5**	**510**	
MW-10	03/06/2017	**0.092**	0.0024	0.16	0.32	**525**	
MW-10	06/19/2017	**0.093**	<0.001	0.15	0.24	**492**	
MW-10	09/25/2017	**0.448**	<0.01	0.272	0.425	**496**	
MW-10	12/19/2017	**0.537**	0.00473 J	0.265	0.435	**547**	
MW-10	03/13/2018	**0.281**	<0.010	0.104	0.165	**530**	
MW-10	06/25/2018	**0.493**	0.00248 J	0.0490	0.0591	**464**	
MW-10	09/19/2018	**0.563**	0.00485 J	0.0470	0.0761	**486**	
MW-10	12/11/2018	**0.722**	0.0113	0.0566	0.107	NA	
MW-10	03/19/2019	**0.982**	0.0162	0.0784	0.172	**472**	
MW-10	06/04/2019	**0.889**	0.0213	0.0483	0.107	NA	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-10	09/23/2019	**1.28**	0.0623	0.0777	0.201	**489**	
MW-10	12/11/2019	**0.606**	<0.050	<0.050	<0.150	NA	
MW-10	06/15/2020	**0.525**	0.00278 J	0.0191	0.0382	NA	
MW-10	09/21/2020	**0.587**	0.00436 J	0.0455	0.109	**500**	
MW-10	12/14/2020	**0.35**	<0.00100	0.022	0.0758	NA	
MW-10	03/29/2021	**0.137**	0.000418 J	0.019	0.0435	487	
MW-10	06/21/2021	**0.22**	0.000641 J	0.0165	0.0331	NA	
MW-10	09/27/2021	**0.175**	0.000387 J	0.0173	0.023	**499**	
MW-10	12/20/2021	**0.0847**	0.000286 J	0.0155	0.0207	NA	
MW-10	03/28/2022	**0.115**	<0.00100	0.0161	0.0171	**506**	
MW-11	6-2010	<0.001	<0.002	<0.002	<0.004	**407**	
MW-11	9-2010	<0.001	<0.002	<0.002	<0.004	**365**	
MW-11	12-2010	<0.001	<0.002	<0.002	<0.004	**383**	
MW-11	03/30/2011	<0.001	<0.002	<0.002	<0.002	**406**	
MW-11	06/22/2011	<0.001	<0.002	<0.002	<0.004	**405**	
MW-11	09/17/2011	<0.001	<0.002	<0.002	<0.004	**390**	
MW-11	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**399**	
MW-11	03/10/2012	<0.001	<0.002	<0.002	<0.004	**403**	
MW-11	06/05/2012	<0.001	<0.002	<0.002	<0.003	**417**	
MW-11	09/09/2012	<0.001	<0.002	<0.002	<0.003	**399**	
MW-11	12/04/2012	<0.001	<0.002	<0.002	<0.003	**382**	
MW-11	02/22/2013	0.0004	<0.002	<0.002	<0.003	**419**	
MW-11	06/02/2013	<0.001	<0.002	<0.002	<0.003	**424**	
MW-11	09/10/2013	<0.001	<0.002	<0.002	<0.003	**394**	
MW-11	12/03/2013	<0.001	<0.002	<0.002	<0.003	**416**	
MW-11	02/27/2014	<0.001	<0.002	<0.002	<0.003	**433**	
MW-11	06/03/2014	<0.001	<0.002	<0.002	<0.003	**434**	
MW-11	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-11	12/01/2014	<0.001	<0.001	<0.001	<0.003	**391**	
MW-11	02/25/2015	<0.001	<0.001	<0.001	<0.003	**414**	
MW-11	06/01/2015	<0.001	<0.001	<0.001	<0.003	**468**	
MW-11	08/31/2015	<0.001	<0.001	<0.001	<0.003	**429**	
MW-11	12/14/2015	<0.001	<0.001	<0.001	<0.003	**416**	
MW-11	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**434**	
MW-11	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**471**	
MW-11	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**444**	
MW-11	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**431**	
MW-11	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**444**	
MW-11	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**436**	
MW-11	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**440**	
MW-11	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**444**	
MW-11	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**452**	
MW-11	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**420**	
MW-11	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**433**	
MW-11	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-11	03/19/2019	<0.0010	<0.0010	<0.0010	<0.0030	**410**	
MW-11	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-11	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**445**	
MW-11	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-11	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-11	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**471**	
MW-11	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-11	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	451	
MW-11	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-11	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**493**	
MW-11	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-11	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**477**	
MW-12	6-2010	<0.001	<0.002	<0.002	<0.004	**514**	
MW-12	9-2010	<0.001	<0.002	<0.002	<0.004	**464**	
MW-12	12-2010	<0.001	<0.002	<0.002	<0.004	**501**	
MW-12	03/30/2011	<0.001	<0.002	<0.002	<0.002	**498**	
MW-12	06/22/2011	<0.001	<0.002	<0.002	<0.004	**497**	
MW-12	09/17/2011	<0.001	<0.002	<0.002	<0.004	**493**	
MW-12	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**493**	
MW-12	03/10/2012	<0.001	<0.002	<0.002	<0.004	**513**	
MW-12	06/05/2012	<0.001	<0.002	<0.002	<0.003	**507**	
MW-12	09/09/2012	<0.001	<0.002	<0.002	<0.003	**487**	
MW-12	12/04/2012	<0.001	<0.002	<0.002	<0.003	**469**	
MW-12	02/22/2013	0.00041	<0.002	<0.002	<0.003	**484**	
MW-12	06/02/2013	<0.001	<0.002	<0.002	<0.003	**461**	
MW-12	09/10/2013	<0.001	<0.002	<0.002	<0.003	**428**	
MW-12	12/03/2013	<0.001	<0.002	<0.002	0.0031	**412**	
MW-12	02/27/2014	<0.001	<0.002	<0.002	0.0024 J	**414**	
MW-12	06/03/2014	<0.001	<0.002	<0.002	<0.003	**377**	
MW-12	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-12	12/01/2014	<0.001	<0.001	<0.001	<0.003	**300**	
MW-12	02/25/2015	<0.001	<0.001	<0.001	<0.003	**322**	
MW-12	06/01/2015	<0.001	<0.001	<0.001	<0.003	**351**	
MW-12	08/31/2015	<0.001	<0.001	<0.001	<0.003	**310**	
MW-12	12/14/2015	<0.001	<0.001	<0.001	<0.003	**295**	
MW-12	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**301**	
MW-12	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**309**	
MW-12	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**316**	
MW-12	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**309**	
MW-12	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**310**	
MW-12	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**314**	
MW-12	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**323**	
MW-12	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**387**	
MW-12	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**354**	
MW-12	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**338**	
MW-12	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**358**	
MW-12	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-12	03/19/2019	<0.0010	<0.0010	<0.0010	<0.0030	**378**	
MW-12	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-12	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**401**	
MW-12	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-12	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-12	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**413**	
MW-12	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-12	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	412	
MW-12	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-12	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**428**	
MW-12	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-12	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**496**	
MW-13	03/30/2011	<0.001	<0.002	<0.002	<0.002	**326**	
MW-13	06/22/2011	<0.001	<0.002	<0.002	<0.004	**340**	
MW-13	09/17/2011	<0.001	<0.002	<0.002	<0.004	**317**	
MW-13	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**328**	
MW-13	03/10/2012	<0.001	<0.002	<0.002	<0.004	**331**	
MW-13	06/05/2012	<0.001	<0.002	<0.002	<0.003	**335**	
MW-13	09/09/2012	<0.001	<0.002	<0.002	<0.003	**321**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-13	12/04/2012	<0.001	<0.002	<0.002	<0.003	**317**	
MW-13	02/22/2013	0.00073	<0.002	<0.002	<0.003	**337**	
MW-13	06/02/2013	<0.001	<0.002	<0.002	<0.003	**333**	
MW-13	09/10/2013	<0.001	<0.002	<0.002	<0.003	**311**	
MW-13	12/03/2013	<0.001	<0.002	<0.002	<0.003	**330**	
MW-13	02/27/2014	<0.001	<0.002	<0.002	<0.003	**344**	
MW-13	06/03/2014	<0.001	<0.002	<0.002	<0.003	**354**	MS/MSD Sample Collected
MW-13	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-13	12/01/2014	<0.001	<0.001	<0.001	<0.003	**310**	
MW-13	02/25/2015	<0.001	<0.001	<0.001	<0.003	**326**	
MW-13	06/01/2015	<0.001	<0.001	<0.001	<0.003	**362**	
MW-13	08/31/2015	<0.001	<0.001	<0.001	<0.003	**332**	
MW-13	12/14/2015	<0.001	<0.001	<0.001	<0.003	**315**	
MW-13	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**330**	
MW-13	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**328**	
MW-13	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**339**	
MW-13	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**333**	
MW-13	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**340**	
MW-13	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**313**	
MW-13	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**327**	
MW-13	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**318**	
MW-13	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**339**	
MW-13	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**313**	
MW-13	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**338**	
MW-13	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-13	03/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	**330**	
MW-13	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-13	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**346**	
MW-13	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-13	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-13	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**385**	
MW-13	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-13	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	389	
MW-13	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-13	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**409**	
MW-13	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-13	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**445**	
MW-14	03/30/2011	<0.001	<0.002	<0.002	<0.002	**520**	
MW-14	06/22/2011	<0.001	<0.002	<0.002	<0.004	**494**	
MW-14	09/17/2011	<0.001	<0.002	<0.002	<0.004	**478**	
MW-14	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**521**	
MW-14	03/10/2012	<0.001	<0.002	<0.002	<0.004	**528**	
MW-14	06/05/2012	<0.001	<0.002	<0.002	<0.003	**513**	
MW-14	09/09/2012	<0.001	<0.002	<0.002	<0.003	**536**	
MW-14	12/04/2012	<0.001	<0.002	<0.002	<0.003	**544**	
MW-14	02/22/2013	0.00034	<0.002	<0.002	<0.003	**553**	
MW-14	06/02/2013	<0.001	<0.002	<0.002	<0.003	**538**	
MW-14	09/10/2013	<0.001	<0.002	<0.002	<0.003	**486**	
MW-14	12/03/2013	<0.001	<0.002	<0.002	<0.003	**519**	
MW-14	02/27/2014	<0.001	<0.002	<0.002	<0.003	**516**	
MW-14	06/03/2014	<0.001	<0.002	<0.002	<0.003	**547**	
MW-14	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-14	12/01/2014	<0.001	<0.001	<0.001	<0.003	**482**	
MW-14	02/25/2015	<0.001	<0.001	<0.001	<0.003	**477**	
MW-14	06/01/2015	<0.001	<0.001	<0.001	<0.003	**502**	
MW-14	08/31/2015	<0.001	<0.001	<0.001	<0.003	**472**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-14	12/14/2015	<0.001	<0.001	<0.001	<0.003	**430**	
MW-14	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**445**	
MW-14	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**451**	
MW-14	09/26/2016	<0.0010	0.0011	<0.0010	<0.0030	**455**	
MW-14	12/19/2016	<0.0010	0.0011	<0.0010	<0.0010	**432**	
MW-14	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**422**	
MW-14	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**398**	
MW-14	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**397**	
MW-14	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**431**	
MW-14	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**398**	
MW-14	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**369**	
MW-14	09/18/2018	<0.0010	<0.0010	<0.0010	<0.0030	**389**	
MW-14	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-14	03/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	**370**	
MW-14	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-14	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**375**	
MW-14	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-14	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-14	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**399**	
MW-14	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-14	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	408	
MW-14	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-14	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**420**	
MW-14	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-14	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**446**	
MW-15	03/30/2011	<0.001	<0.002	<0.002	<0.002	**303**	
MW-15	06/22/2011	<0.001	<0.002	<0.002	<0.004	**297**	
MW-15	09/17/2011	<0.001	<0.002	<0.002	<0.004	**294**	
MW-15	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**288**	
MW-15	03/10/2012	<0.001	<0.002	<0.002	<0.004	**308**	
MW-15	06/05/2012	<0.001	<0.002	<0.002	<0.003	**276**	
MW-15	09/09/2012	<0.001	<0.002	<0.002	<0.003	**318**	
MW-15	12/04/2012	<0.001	<0.002	<0.002	<0.003	**313**	
MW-15	02/22/2013	0.00034	<0.002	<0.002	<0.003	**333**	
MW-15	06/02/2013	<0.001	<0.002	<0.002	<0.003	**324**	
MW-15	09/10/2013	<0.001	<0.002	<0.002	<0.003	**331**	
MW-15	12/03/2013	<0.001	<0.002	<0.002	<0.003	**365**	
MW-15	02/27/2014	<0.001	<0.002	<0.002	<0.003	**378**	
MW-15	06/03/2014	<0.001	<0.002	<0.002	<0.003	**374**	
MW-15	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-15	12/01/2014	<0.001	<0.001	<0.001	<0.003	**334**	
MW-15	02/25/2015	<0.001	<0.001	<0.001	<0.003	**362**	
MW-15	06/01/2015	<0.001	<0.001	<0.001	<0.003	**407**	
MW-15	08/31/2015	<0.001	<0.001	<0.001	<0.003	**405**	
MW-15	12/14/2015	<0.001	<0.001	<0.001	<0.003	**390**	
MW-15	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**409**	
MW-15	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**405**	
MW-15	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**430**	
MW-15	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**418**	
MW-15	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**438**	
MW-15	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**401**	
MW-15	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**422**	
MW-15	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**398**	
MW-15	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**424**	
MW-15	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**391**	
MW-15	09/18/2018	<0.0010	<0.0010	<0.0010	<0.0030	**417**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-15	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-15	03/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	**427**	
MW-15	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-15	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**417**	
MW-15	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-15	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-15	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**451**	
MW-15	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-15	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	454	
MW-15	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-15	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**470**	
MW-15	12/20/2021	<0.00100	<0.00100	<0.00100	0.000187 J	NA	
MW-15	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**472**	
MW-16	03/30/2011	<0.001	<0.002	<0.002	<0.002	**295**	
MW-16	06/22/2011	<0.001	<0.002	<0.002	<0.004	**292**	
MW-16	09/17/2011	<0.001	<0.002	<0.002	<0.004	**295**	
MW-16	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**313**	
MW-16	03/10/2012	<0.001	<0.002	<0.002	<0.004	**322**	
MW-16	06/05/2012	<0.001	<0.002	<0.002	<0.003	**334**	
MW-16	09/09/2012	<0.001	<0.002	<0.002	<0.003	**334**	
MW-16	12/04/2012	<0.001	<0.002	<0.002	<0.003	**339**	
MW-16	02/22/2013	<0.001	<0.002	<0.002	<0.003	**358**	
MW-16	06/02/2013	<0.001	<0.002	<0.002	<0.003	**364**	
MW-16	09/10/2013	<0.001	<0.002	<0.002	<0.003	**359**	
MW-16	12/03/2013	<0.001	<0.002	<0.002	<0.003	**394**	
MW-16	02/27/2014	<0.001	<0.002	<0.002	<0.003	**424**	
MW-16	06/03/2014	<0.001	<0.002	<0.002	<0.003	**333**	
MW-16	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-16	12/01/2014	<0.001	<0.001	<0.001	<0.003	**418**	
MW-16	02/25/2015	<0.001	<0.001	<0.001	<0.003	**435**	
MW-16	06/01/2015	<0.001	<0.001	<0.001	<0.003	**458**	
MW-16	08/31/2015	<0.001	<0.001	<0.001	<0.003	**425**	
MW-16	12/14/2015	<0.001	<0.001	<0.001	<0.003	**469**	
MW-16	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**437**	
MW-16	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**423**	
MW-16	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**463**	
MW-16	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**445**	
MW-16	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**433**	
MW-16	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**435**	
MW-16	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**437**	
MW-16	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**488**	
MW-16	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**454**	
MW-16	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**437**	
MW-16	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**471**	
MW-16	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-16	03/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	**481**	
MW-16	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-16	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**489**	
MW-16	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-16	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-16	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**551**	
MW-16	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-16	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	583	
MW-16	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-16	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**574**	
MW-16	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-16	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**630**	
Trip Blank	06/03/2014	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	12/01/2014	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	02/25/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	06/01/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	08/31/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	12/14/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	NA	
Trip Blank	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	NA	
Trip Blank	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	NA	
Trip Blank	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	03/19/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	06/04/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/11/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	09/21/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/14/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	03/29/2021	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	06/21/2021	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	09/27/2021	<0.00100	0.000279 J	<0.00100	0.000231 J	NA	
Trip Blank	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
Trip Blank	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	

Notes:
Bold red values indicate an exceedance of the NMWQCC groundwater standards for the Site.
NMWQCC = New Mexico Water Quality Control Commission
LNAPL = Light Non-Aqueous Phase Liquid
B = A qualifier indicating an analyte was detected in both the sample and the associated Method Blank (MB)
J = A qualifier indicating the identification of the analyte is acceptable; the reported value is an estimate.
NS = Not Sampled
NA = Not Analyzed
mg/L = milligrams per liter

Appendix B

Laboratory Analytical Report

Pace Analytical Job #: L1476341

Pace Analytical®

ANALYTICAL REPORT

April 07, 2022

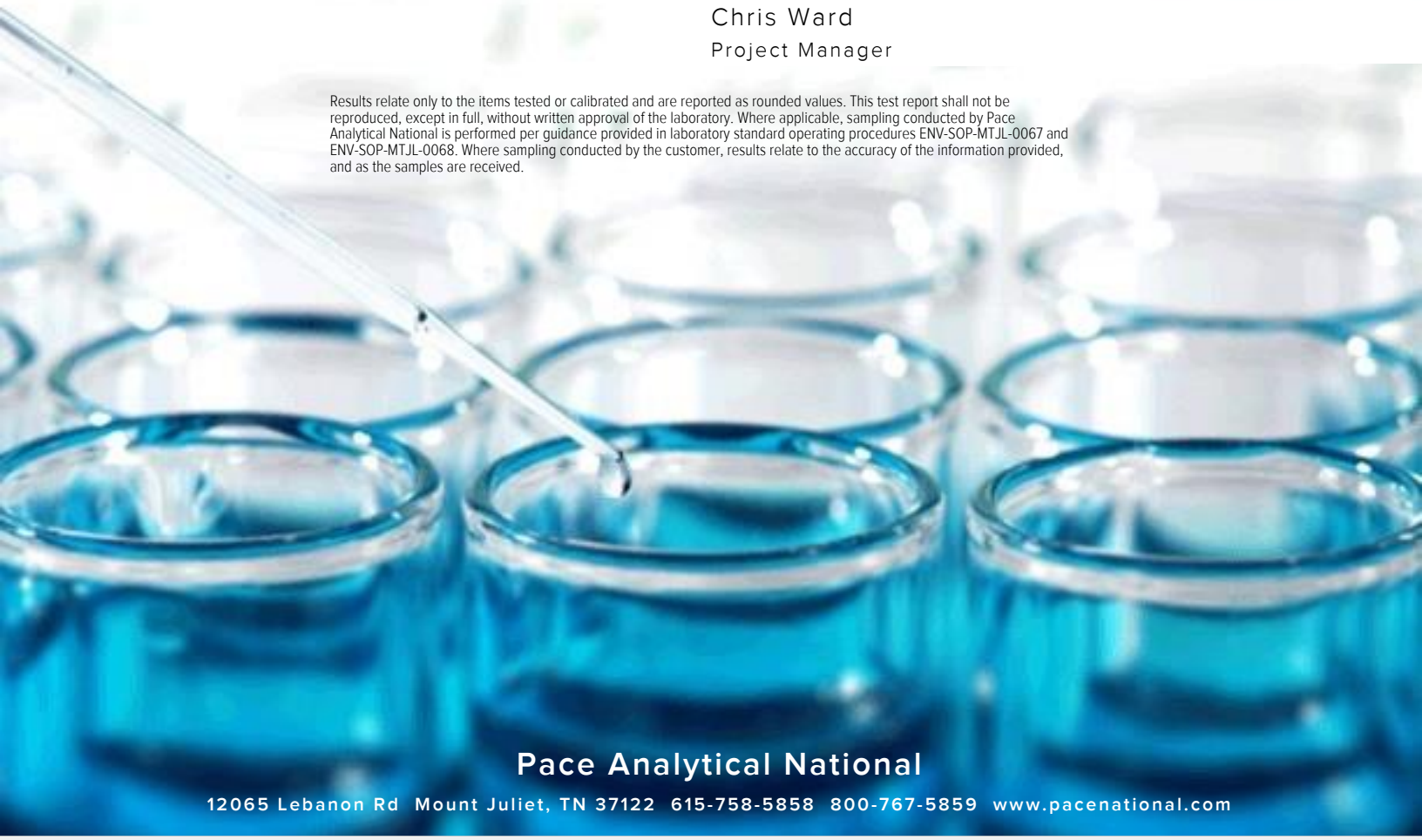
DCP Midstream - Tasman

Sample Delivery Group:	L1476341
Samples Received:	03/29/2022
Project Number:	
Description:	RR - Extension Pipeline Release

Report To: Kyle Norman
2620 W. Marland Blvd
Hobbs, NM 88240

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-1 L1476341-01 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 08:05 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 02:32	03/30/22 02:32	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842085	1	04/02/22 14:21	04/02/22 14:21	ACG	Mt. Juliet, TN

MW-2 L1476341-02 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 09:05 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 02:44	03/30/22 02:44	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842085	1	04/02/22 14:42	04/02/22 14:42	ACG	Mt. Juliet, TN

MW-3 L1476341-03 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 12:55 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 03:22	03/30/22 03:22	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842740	10	04/04/22 17:21	04/04/22 17:21	BMB	Mt. Juliet, TN

MW-4 L1476341-04 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 13:35 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 03:34	03/30/22 03:34	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842085	1	04/02/22 15:02	04/02/22 15:02	ACG	Mt. Juliet, TN

MW-5 L1476341-05 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 11:45 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 03:47	03/30/22 03:47	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842085	1	04/02/22 15:22	04/02/22 15:22	ACG	Mt. Juliet, TN

MW-6 L1476341-06 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 11:25 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 03:59	03/30/22 03:59	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842085	1	04/02/22 15:43	04/02/22 15:43	ACG	Mt. Juliet, TN

MW-8 L1476341-07 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 08:25 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	50	03/30/22 04:11	03/30/22 04:11	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842085	1	04/02/22 16:03	04/02/22 16:03	ACG	Mt. Juliet, TN

MW-9 L1476341-08 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 09:30 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 04:24	03/30/22 04:24	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842085	10	04/02/22 19:47	04/02/22 19:47	ACG	Mt. Juliet, TN

MW-10 L1476341-09 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 13:55 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 04:36	03/30/22 04:36	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842085	1	04/02/22 16:23	04/02/22 16:23	ACG	Mt. Juliet, TN

MW-11 L1476341-10 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 11:05 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 04:49	03/30/22 04:49	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842085	1	04/02/22 16:44	04/02/22 16:44	ACG	Mt. Juliet, TN

MW-12 L1476341-11 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 10:45 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 05:01	03/30/22 05:01	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842085	1	04/02/22 17:04	04/02/22 17:04	ACG	Mt. Juliet, TN

MW-13 L1476341-12 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 08:45 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 05:14	03/30/22 05:14	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842196	1	04/03/22 07:39	04/03/22 07:39	JHH	Mt. Juliet, TN

MW-14 L1476341-13 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 09:50 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 05:51	03/30/22 05:51	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842196	1	04/03/22 08:00	04/03/22 08:00	JHH	Mt. Juliet, TN

MW-15 L1476341-14 GW

Collected by: Becky Griffin | Collected date/time: 03/28/22 10:10 | Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 06:03	03/30/22 06:03	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842196	1	04/03/22 08:22	04/03/22 08:22	JHH	Mt. Juliet, TN

MW-16 L1476341-15 GW

Collected by: Becky Griffin
Collected date/time: 03/28/22 10:30
Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 06:16	03/30/22 06:16	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842196	1	04/03/22 08:43	04/03/22 08:43	JHH	Mt. Juliet, TN

DUPLICATE L1476341-16 GW

Collected by: Becky Griffin
Collected date/time: 03/28/22 00:00
Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1840346	10	03/30/22 06:28	03/30/22 06:28	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842778	5	04/04/22 16:40	04/04/22 16:40	BMB	Mt. Juliet, TN

TRIP BLANK L1476341-17 GW

Collected by: Becky Griffin
Collected date/time: 03/28/22 15:00
Received date/time: 03/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1842196	1	04/03/22 07:18	04/03/22 07:18	JHH	Mt. Juliet, TN

MW-7 L1476341-18 GW

Collected by: Becky Griffin
Collected date/time: 03/31/22 08:00
Received date/time: 04/01/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1842260	5	04/02/22 15:25	04/02/22 15:25	LBR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1843670	1	04/07/22 00:46	04/07/22 00:46	JHH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward

Chris Ward
Project Manager

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	552		3.79	10.0	10	03/30/2022 02:32	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000477	J	0.0000941	0.00100	1	04/02/2022 14:21	WG1842085
Toluene	U		0.000278	0.00100	1	04/02/2022 14:21	WG1842085
Ethylbenzene	0.000636	J	0.000137	0.00100	1	04/02/2022 14:21	WG1842085
Total Xylenes	0.000997	J	0.000174	0.00300	1	04/02/2022 14:21	WG1842085
(S) Toluene-d8	*102*			*80.0-120*		*04/02/2022 14:21*	WG1842085
(S) 4-Bromofluorobenzene	*99.1*			*77.0-126*		*04/02/2022 14:21*	WG1842085
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/02/2022 14:21*	WG1842085

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	397		3.79	10.0	10	03/30/2022 02:44	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0273		0.0000941	0.00100	1	04/02/2022 14:42	WG1842085
Toluene	U		0.000278	0.00100	1	04/02/2022 14:42	WG1842085
Ethylbenzene	0.00172		0.000137	0.00100	1	04/02/2022 14:42	WG1842085
Total Xylenes	0.00256	J	0.000174	0.00300	1	04/02/2022 14:42	WG1842085
(S) Toluene-d8	*103*			*80.0-120*		*04/02/2022 14:42*	WG1842085
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*04/02/2022 14:42*	WG1842085
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*04/02/2022 14:42*	WG1842085

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	466		3.79	10.0	10	03/30/2022 03:22	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.387		0.000941	0.0100	10	04/04/2022 17:21	WG1842740
Toluene	U		0.00278	0.0100	10	04/04/2022 17:21	WG1842740
Ethylbenzene	0.0742		0.00137	0.0100	10	04/04/2022 17:21	WG1842740
Total Xylenes	0.166		0.00174	0.0300	10	04/04/2022 17:21	WG1842740
(S) Toluene-d8	*104*			*80.0-120*		*04/04/2022 17:21*	WG1842740
(S) 4-Bromofluorobenzene	*97.1*			*77.0-126*		*04/04/2022 17:21*	WG1842740
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/04/2022 17:21*	WG1842740

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	235		3.79	10.0	10	03/30/2022 03:34	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.0255		0.0000941	0.00100	1	04/02/2022 15:02	WG1842085
Toluene	U		0.000278	0.00100	1	04/02/2022 15:02	WG1842085
Ethylbenzene	0.0261		0.000137	0.00100	1	04/02/2022 15:02	WG1842085
Total Xylenes	0.0251		0.000174	0.00300	1	04/02/2022 15:02	WG1842085
(S) Toluene-d8	*101*			*80.0-120*		*04/02/2022 15:02*	WG1842085
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*04/02/2022 15:02*	WG1842085
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/02/2022 15:02*	WG1842085

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	485		3.79	10.0	10	03/30/2022 03:47	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0161		0.0000941	0.00100	1	04/02/2022 15:22	WG1842085
Toluene	0.000317	J	0.000278	0.00100	1	04/02/2022 15:22	WG1842085
Ethylbenzene	0.0227		0.000137	0.00100	1	04/02/2022 15:22	WG1842085
Total Xylenes	0.0136		0.000174	0.00300	1	04/02/2022 15:22	WG1842085
(S) Toluene-d8	*95.9*			*80.0-120*		*04/02/2022 15:22*	WG1842085
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*04/02/2022 15:22*	WG1842085
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*04/02/2022 15:22*	WG1842085

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	412		3.79	10.0	10	03/30/2022 03:59	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	04/02/2022 15:43	WG1842085
Toluene	U		0.000278	0.00100	1	04/02/2022 15:43	WG1842085
Ethylbenzene	U		0.000137	0.00100	1	04/02/2022 15:43	WG1842085
Total Xylenes	U		0.000174	0.00300	1	04/02/2022 15:43	WG1842085
(S) Toluene-d8	*102*			*80.0-120*		*04/02/2022 15:43*	WG1842085
(S) 4-Bromofluorobenzene	*99.7*			*77.0-126*		*04/02/2022 15:43*	WG1842085
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*04/02/2022 15:43*	WG1842085

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	1020		19.0	50.0	50	03/30/2022 04:11	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	04/02/2022 16:03	WG1842085
Toluene	U		0.000278	0.00100	1	04/02/2022 16:03	WG1842085
Ethylbenzene	U		0.000137	0.00100	1	04/02/2022 16:03	WG1842085
Total Xylenes	U		0.000174	0.00300	1	04/02/2022 16:03	WG1842085
(S) Toluene-d8	*101*			*80.0-120*		*04/02/2022 16:03*	WG1842085
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*04/02/2022 16:03*	WG1842085
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/02/2022 16:03*	WG1842085

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	418		3.79	10.0	10	03/30/2022 04:24	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.386		0.000941	0.0100	10	04/02/2022 19:47	WG1842085
Toluene	0.0399		0.00278	0.0100	10	04/02/2022 19:47	WG1842085
Ethylbenzene	0.0455		0.00137	0.0100	10	04/02/2022 19:47	WG1842085
Total Xylenes	0.0927		0.00174	0.0300	10	04/02/2022 19:47	WG1842085
(S) Toluene-d8	*102*			*80.0-120*		*04/02/2022 19:47*	WG1842085
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*04/02/2022 19:47*	WG1842085
(S) 1,2-Dichloroethane-d4	*110*			*70.0-130*		*04/02/2022 19:47*	WG1842085

MW-10
Collected date/time: 03/28/22 13:55
L1476341

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	506		3.79	10.0	10	03/30/2022 04:36	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.115		0.0000941	0.00100	1	04/02/2022 16:23	WG1842085
Toluene	U		0.000278	0.00100	1	04/02/2022 16:23	WG1842085
Ethylbenzene	0.0161		0.000137	0.00100	1	04/02/2022 16:23	WG1842085
Total Xylenes	0.0171		0.000174	0.00300	1	04/02/2022 16:23	WG1842085
(S) Toluene-d8	*97.9*			*80.0-120*		*04/02/2022 16:23*	WG1842085
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*04/02/2022 16:23*	WG1842085
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/02/2022 16:23*	WG1842085

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	477		3.79	10.0	10	03/30/2022 04:49	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	04/02/2022 16:44	WG1842085
Toluene	U		0.000278	0.00100	1	04/02/2022 16:44	WG1842085
Ethylbenzene	U		0.000137	0.00100	1	04/02/2022 16:44	WG1842085
Total Xylenes	U		0.000174	0.00300	1	04/02/2022 16:44	WG1842085
(S) Toluene-d8	*102*			*80.0-120*		*04/02/2022 16:44*	WG1842085
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*04/02/2022 16:44*	WG1842085
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*04/02/2022 16:44*	WG1842085

MW-12
Collected date/time: 03/28/22 10:45
L1476341

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	496		3.79	10.0	10	03/30/2022 05:01	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	04/02/2022 17:04	WG1842085
Toluene	U		0.000278	0.00100	1	04/02/2022 17:04	WG1842085
Ethylbenzene	U		0.000137	0.00100	1	04/02/2022 17:04	WG1842085
Total Xylenes	U		0.000174	0.00300	1	04/02/2022 17:04	WG1842085
(S) Toluene-d8	*99.4*			*80.0-120*		*04/02/2022 17:04*	WG1842085
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*04/02/2022 17:04*	WG1842085
(S) 1,2-Dichloroethane-d4	*108*			*70.0-130*		*04/02/2022 17:04*	WG1842085

MW-13
Collected date/time: 03/28/22 08:45
L1476341

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	445		3.79	10.0	10	03/30/2022 05:14	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	04/03/2022 07:39	WG1842196
Toluene	U		0.000278	0.00100	1	04/03/2022 07:39	WG1842196
Ethylbenzene	U		0.000137	0.00100	1	04/03/2022 07:39	WG1842196
Total Xylenes	U		0.000174	0.00300	1	04/03/2022 07:39	WG1842196
(S) Toluene-d8	*107*			*80.0-120*		*04/03/2022 07:39*	WG1842196
(S) 4-Bromofluorobenzene	*92.3*			*77.0-126*		*04/03/2022 07:39*	WG1842196
(S) 1,2-Dichloroethane-d4	*123*			*70.0-130*		*04/03/2022 07:39*	WG1842196

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	446		3.79	10.0	10	03/30/2022 05:51	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	04/03/2022 08:00	WG1842196
Toluene	U		0.000278	0.00100	1	04/03/2022 08:00	WG1842196
Ethylbenzene	U		0.000137	0.00100	1	04/03/2022 08:00	WG1842196
Total Xylenes	U		0.000174	0.00300	1	04/03/2022 08:00	WG1842196
(S) Toluene-d8	*107*			*80.0-120*		*04/03/2022 08:00*	WG1842196
(S) 4-Bromofluorobenzene	*89.3*			*77.0-126*		*04/03/2022 08:00*	WG1842196
(S) 1,2-Dichloroethane-d4	*122*			*70.0-130*		*04/03/2022 08:00*	WG1842196

Wet Chemistry by Method 9056A

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Chloride	472		3.79	10.0	10	03/30/2022 06:03	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	04/03/2022 08:22	WG1842196
Toluene	U		0.000278	0.00100	1	04/03/2022 08:22	WG1842196
Ethylbenzene	U		0.000137	0.00100	1	04/03/2022 08:22	WG1842196
Total Xylenes	U		0.000174	0.00300	1	04/03/2022 08:22	WG1842196
(S) Toluene-d8	*106*			*80.0-120*		*04/03/2022 08:22*	WG1842196
(S) 4-Bromofluorobenzene	*92.1*			*77.0-126*		*04/03/2022 08:22*	WG1842196
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*		*04/03/2022 08:22*	WG1842196

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	630		3.79	10.0	10	03/30/2022 06:16	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	04/03/2022 08:43	WG1842196
Toluene	U		0.000278	0.00100	1	04/03/2022 08:43	WG1842196
Ethylbenzene	U		0.000137	0.00100	1	04/03/2022 08:43	WG1842196
Total Xylenes	U		0.000174	0.00300	1	04/03/2022 08:43	WG1842196
(S) Toluene-d8	*106*			*80.0-120*		*04/03/2022 08:43*	WG1842196
(S) 4-Bromofluorobenzene	*97.2*			*77.0-126*		*04/03/2022 08:43*	WG1842196
(S) 1,2-Dichloroethane-d4	*124*			*70.0-130*		*04/03/2022 08:43*	WG1842196

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	493		3.79	10.0	10	03/30/2022 06:28	WG1840346

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.0166		0.000471	0.00500	5	04/04/2022 16:40	WG1842778
Toluene	U		0.00139	0.00500	5	04/04/2022 16:40	WG1842778
Ethylbenzene	0.0222		0.000685	0.00500	5	04/04/2022 16:40	WG1842778
Total Xylenes	0.0171		0.000870	0.0150	5	04/04/2022 16:40	WG1842778
(S) Toluene-d8	*103*			*80.0-120*		*04/04/2022 16:40*	WG1842778
(S) 4-Bromofluorobenzene	*97.9*			*77.0-126*		*04/04/2022 16:40*	WG1842778
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*04/04/2022 16:40*	WG1842778

Sample Narrative:

L1476341-16 WG1842778: Non-target compounds too high to run at a lower dilution.

TRIP BLANK
Collected date/time: 03/28/22 15:00
L1476341

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	04/03/2022 07:18	WG1842196
Toluene	U		0.000278	0.00100	1	04/03/2022 07:18	WG1842196
Ethylbenzene	U		0.000137	0.00100	1	04/03/2022 07:18	WG1842196
Total Xylenes	U		0.000174	0.00300	1	04/03/2022 07:18	WG1842196
(S) Toluene-d8	*107*			*80.0-120*		*04/03/2022 07:18*	WG1842196
(S) 4-Bromofluorobenzene	*94.5*			*77.0-126*		*04/03/2022 07:18*	WG1842196
(S) 1,2-Dichloroethane-d4	*127*			*70.0-130*		*04/03/2022 07:18*	WG1842196

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	10.7		1.90	5.00	5	04/02/2022 15:25	WG1842260

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	04/07/2022 00:46	WG1843670
Toluene	U		0.000278	0.00100	1	04/07/2022 00:46	WG1843670
Ethylbenzene	U		0.000137	0.00100	1	04/07/2022 00:46	WG1843670
Total Xylenes	U		0.000174	0.00300	1	04/07/2022 00:46	WG1843670
(S) Toluene-d8	*102*			*80.0-120*		*04/07/2022 00:46*	WG1843670
(S) 4-Bromofluorobenzene	*98.0*			*77.0-126*		*04/07/2022 00:46*	WG1843670
(S) 1,2-Dichloroethane-d4	*119*			*70.0-130*		*04/07/2022 00:46*	WG1843670

Method Blank (MB)

(MB) R3775826-1 03/30/22 00:18

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00

L1476361-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1476361-01 03/30/22 01:17 • (DUP) R3775826-3 03/30/22 01:30

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	2.88	2.89	1	0.187		15

L1476344-26 Original Sample (OS) • Duplicate (DUP)

(OS) L1476344-26 03/30/22 06:53 • (DUP) R3775826-6 03/30/22 07:06

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	15.9	15.9	1	0.148		15

Laboratory Control Sample (LCS)

(LCS) R3775826-2 03/30/22 00:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.8	99.5	80.0-120	

L1476361-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1476361-01 03/30/22 01:17 • (MS) R3775826-4 03/30/22 01:42 • (MSD) R3775826-5 03/30/22 01:55

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	2.88	56.7	56.8	108	108	1	80.0-120			0.308	15

L1476344-26 Original Sample (OS) • Matrix Spike (MS)

(OS) L1476344-26 03/30/22 06:53 • (MS) R3775826-7 03/30/22 07:18

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
Chloride	50.0	15.9	67.0	102	1	80.0-120	

Method Blank (MB)

(MB) R3777794-1 04/02/22 09:44

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Chloride	U		0.379	1.00

L1477681-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1477681-03 04/02/22 12:04 • (DUP) R3777794-3 04/02/22 12:18

Analyte	Original Result mg/l	DUP Result mg/l	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Chloride	3.87	3.89	1	0.590		15

Laboratory Control Sample (LCS)

(LCS) R3777794-2 04/02/22 09:58

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Chloride	40.0	39.2	97.9	80.0-120	

L1477681-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1477681-03 04/02/22 12:04 • (MS) R3777794-4 04/02/22 12:31 • (MSD) R3777794-5 04/02/22 12:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Chloride	50.0	3.87	54.9	55.3	102	103	1	80.0-120			0.627	15

Method Blank (MB)

(MB) R3777158-3 04/02/22 12:19

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*101*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3777158-1 04/02/22 10:58 • (LCSD) R3777158-2 04/02/22 11:18

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00483	0.00518	96.6	104	70.0-123			6.99	20
Toluene	0.00500	0.00471	0.00477	94.2	95.4	79.0-120			1.27	20
Ethylbenzene	0.00500	0.00499	0.00516	99.8	103	79.0-123			3.35	20
Xylenes, Total	0.0150	0.0152	0.0156	101	104	79.0-123			2.60	20
(S) Toluene-d8				*103*	*99.7*	*80.0-120*				
(S) 4-Bromofluorobenzene				*104*	*105*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*105*	*107*	*70.0-130*				

Method Blank (MB)

(MB) R3777005-2 04/03/22 06:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*109*			*80.0-120*
(S) 4-Bromofluorobenzene	*94.7*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*124*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3777005-1 04/03/22 05:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00538	108	70.0-123	
Toluene	0.00500	0.00519	104	79.0-120	
Ethylbenzene	0.00500	0.00487	97.4	79.0-123	
Xylenes, Total	0.0150	0.0141	94.0	79.0-123	
(S) Toluene-d8			*105*	*80.0-120*	
(S) 4-Bromofluorobenzene			*100*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*122*	*70.0-130*	

Method Blank (MB)

(MB) R3777460-3 04/04/22 11:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3777460-1 04/04/22 10:55 • (LCSD) R3777460-2 04/04/22 11:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00503	0.00465	101	93.0	70.0-123			7.85	20
Toluene	0.00500	0.00497	0.00460	99.4	92.0	79.0-120			7.73	20
Ethylbenzene	0.00500	0.00508	0.00470	102	94.0	79.0-123			7.77	20
Xylenes, Total	0.0150	0.0149	0.0136	99.3	90.7	79.0-123			9.12	20
(S) Toluene-d8				*105*	*105*	*80.0-120*				
(S) 4-Bromofluorobenzene				*97.4*	*96.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*108*	*106*	*70.0-130*				

Method Blank (MB)

(MB) R3777462-3 04/04/22 11:56

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*93.9*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3777462-1 04/04/22 10:55 • (LCSD) R3777462-2 04/04/22 11:16

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00503	0.00465	101	93.0	70.0-123			7.85	20
Toluene	0.00500	0.00497	0.00460	99.4	92.0	79.0-120			7.73	20
Ethylbenzene	0.00500	0.00508	0.00470	102	94.0	79.0-123			7.77	20
Xylenes, Total	0.0150	0.0149	0.0136	99.3	90.7	79.0-123			9.12	20
(S) Toluene-d8				*105*	*105*	*80.0-120*				
(S) 4-Bromofluorobenzene				*97.4*	*96.9*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*108*	*106*	*70.0-130*				

Method Blank (MB)

(MB) R3778544-3 04/07/22 00:26

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*107*			*80.0-120*
(S) 4-Bromofluorobenzene	*92.5*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*120*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3778544-1 04/06/22 23:25 • (LCSD) R3778544-2 04/06/22 23:45

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00434	0.00432	86.8	86.4	70.0-123			0.462	20
Toluene	0.00500	0.00408	0.00420	81.6	84.0	79.0-120			2.90	20
Ethylbenzene	0.00500	0.00424	0.00414	84.8	82.8	79.0-123			2.39	20
Xylenes, Total	0.0150	0.0125	0.0123	83.3	82.0	79.0-123			1.61	20
(S) Toluene-d8				*99.2*	*103*	*80.0-120*				
(S) 4-Bromofluorobenzene				*101*	*92.8*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*118*	*118*	*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

DCP Midstream - Tasman

2620 W. Marland Blvd
Hobbs, NM 88240

Billing Information:
Steve Weathers
370 17th St, Ste 2500
Denver, CO 80202

Pres Chk

Analysis / Container / Preservative

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Report to: Kyle Norman

Email To: knorman@tasman-geo.com;bhumphrey@tasman-

Project Description: RR - Extension Pipeline Release

City/State Collected:

Please Circle: PT MT CT ET

Phone: 720-218-4003

Client Project #

Lab Project # DCPTASMAN-RR EXT

SDG # L496341

1132

Collected by (print): BECKY GRIFFIN

Site/Facility ID #

P.O. # 0000524223

Acctnum: DCPTASMAN

Collected by (signature): Becky Griffin

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Template: T127838

Prelogin: P908974

PM: 824 - Chris Ward

PB: CK 3/9/22

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	V8260BTEX 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-1		GW		3-28-22	0805	4	X	X		-01
MW-2		GW			0905					-02
MW-3		GW			1255					-03
MW-4		GW			1335					-04
MW-5		GW			1145					-05
MW-6		GW			1125					-06
MW-7		GW			1315					
MW-8		GW			0825					-07
MW-9		GW			0930					-08
MW-10		GW			1355					-09

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 807153778143

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD Screen <0.5 mR/hr: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
Becky Griffin	3-28-22	1500			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: DRAFT °C Bottles Received: 1.0 to -1.0 64	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Patricia Smith	Date: 3/29/22 Time: 0900	Hold: / Condition: NCF / OK

Company Name/Address:
DCP Midstream - Tasman

2620 W. Marland Blvd
Hobbs, NM 88240

Billing Information:
Steve Weathers
370 17th St, Ste 2500
Denver, CO 80202

Pres Chk

Report to: **Kyle Norman**

Email To: **knorman@tasman-geo.com;bhumphrey@tasman-**

Project Description: **RR - Extension Pipeline Release**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **720-218-4003**

Client Project #

Lab Project # **DCPTASMAN-RR EXT**

Collected by (print): **BECKY GRIFFIN**

Site/Facility ID #

P.O. # **0000524223**

Collected by (signature): **Becky Griffin**

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	CHLORIDE 125mlHDPE-NoPres	V8260BTEX 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-11		GW		3-28-22	1105	4	X	X		-10
MW-12		GW			1045					-11
MW-13		GW			0845					-12
MW-14		GW			0950					-13
MW-15		GW			1010					-14
MW-16		GW			1030					-15
DUPLICATE		GW		3-28-22		4	X	X		-16
		GW								
TRIP BLANK		GW		3-28-22	1500	4	X	X		-17

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 147641

Table #

Acctnum: **DCPTASMAN**

Template: **T127838**

Prelogin: **P908974**

PM: **824 - Chris Ward**

PB: **UK 3/9/22**

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking # 567153778143

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

	Date:	Time:		
Relinquished by : (Signature) Becky Griffin	3-28-22	1500	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.7 °C Bottles Received: 64
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Patricia Smith	Date: 3/29/22 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

03/29-NCF-L1476341-DCPTASMAN PM

R5

Time estimate: oh **Time spent:** oh

Members

Paul Minnich (responsible) Chris Ward Cole Medley

Due on *1 April 2022 5:00 PM* for target *Done*

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [x] Client informed by Email
- [ ] Client informed by Voicemail
- [x] Date/Time:_____3/30/22@1812_____
- [x] PM initials:_____CMW_____
- [x] Client Contact:_____Jeb Watts_____

Comments

Paul Minnich *29 March 2022 7:32 PM*

Missing sample MW-7

Chris Ward *31 March 2022 10:02 AM*

Should be arriving 4/01. Please log to the same SDG when received

Paul Minnich *3 April 2022 12:18 AM*

Cole: Please delete L1477815 and add MW-7 to L1476341.

Matthew Shacklock *4 April 2022 8:41 AM*

Done

Second Quarter 2022 Groundwater Monitoring Summary Report

REVIEWED
By Nelson Velez at 1:31 pm, Jan 04, 2023

Review of 2Q 2022 Groundwater Monitoring Summary Report: **Content satisfactory**

1. Continue quarterly groundwater monitoring and sampling for BTEX at the monitoring well locations illustrated on Figure 2.
2. Continue semi-annual sampling activities for chloride analysis to be conducted during the first (March) and third (September) quarter sampling events each calendar year.
3. Following a hiatus in EFR/AS events at the beginning of 2020, quarterly EFR/AS efforts were resumed during the third quarter 2020 and have continued on a quarterly basis through second quarter 2022.
4. Further EFR/AS remediation efforts will be assessed following the 2022 quarterly monitoring events to determine its effectiveness in reducing dissolved phase benzene concentrations.
5. Submit the 2022 third and fourth quarter reports no later than March 31, 2023.

RR Extension Pipeline Release
Lea County, New Mexico
AP #55
Incident # nPAC0711749522

Prepared for:

dcp Midstream

6900 E. Layton Ave., Suite 900
Denver, CO 80237-3658

Prepared by:

TASMAN

6855 W. 119th Avenue
Broomfield, Colorado 80020

October 3, 2022

Table of Contents

Tables

Figures

Appendices

1. Introduction

This report summarizes the groundwater monitoring and remediation activities conducted during the second quarter 2022 at the RR-Extension pipeline release (Site) in Lea County, New Mexico (Figure 1). Tasman Geosciences (Tasman) performed these activities on behalf of DCP Midstream, LP (DCP). The field activities were conducted with the purpose of monitoring groundwater flow and quality conditions as well as assessing the presence of light non-aqueous phase liquid (LNAPL) hydrocarbons in the Site subsurface and performing groundwater remediation. Current Site conditions were evaluated from field data and analytical laboratory results collected during the reporting period on June 27, 2022.

2. Site Location and Background

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

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

LNAPL has historically been identified immediately above the water table at a depth of approximately 30-feet bgs within monitoring well locations to the south and east of the original release and excavation limits. However, subsequent to the first quarter 2015 monitoring event, LNAPL has not been observed within any of the Site monitoring wells. Investigation activities conducted at the Site include installation of groundwater monitoring wells and excavation during the time periods listed below:

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

Ongoing monitoring and sampling of the Site wells listed above has been conducted on a quarterly basis following installation.

Boring logs for the monitoring wells at the Site indicate that the subsurface geology is typical of unconsolidated fine-grained sand, silt, and clay sediments.

On April 27, 2017, on behalf of DCP, Tasman issued the *Request to Remove Chlorides from Groundwater Sampling Suite* request letter to the New Mexico Energy, Minerals, and Natural Resources Department (EMNRD) – Oil Conservation Division (NMOCD), to remove chloride analysis from the groundwater sampling requirements designated for the Site. As further detailed in the referenced request letter, basis for discontinuing chloride analysis was primarily supported by background concentrations present in groundwater at the Site, as well as chlorides not being associated with DCP gathering systems. DCP is currently awaiting written approval of the referenced request, however, the NMOCD did provide verbal approval following an associated discussion held on April 27, 2017, to reduce the frequency for sampling of chlorides from a quarterly schedule to a semi-annual sampling schedule, to be completed during the first and third quarter events of each calendar year starting March 2018.

3. Groundwater Monitoring

This section describes the field and laboratory activities performed during the second quarter 2022 groundwater monitoring event. Quarterly monitoring activities were conducted on June 27 , 2022 and included Site-wide groundwater gauging and groundwater sampling. All Site wells were gauged and monitored on June 27, Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.

3.1 Groundwater and LNAPL Elevation Monitoring

Groundwater levels were measured in order to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations in groundwater elevations at the Site. During the second quarter 2022, groundwater levels were measured at 16 monitoring well locations. Measurable LNAPL thicknesses were not observed during this monitoring event and have not been observed at the Site since the first quarter 2015. The presence of LNAPL will continue to be monitored in future groundwater sampling events, and historical LNAPL thicknesses have been provided in previous quarterly reports.

Groundwater levels were measured on the north side of the well casing to the nearest 0.01-foot using an oil-water interface probe (IP). Groundwater level data were later converted to elevation (feet above mean sea level [AMSL]). Measured groundwater levels and calculated groundwater elevations for this quarter and the previous three quarters are presented in Table 1.

A second quarter 2022 groundwater elevation contour map, included as Figure 3, indicates that groundwater flow at the Site generally trends to the southeast. The range of groundwater elevations, average elevation changes from the previous monitoring event, and the calculated average hydraulic gradient (using elevations from MW-13 and MW-6) at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	Second Quarter 2022 (6/27/2022)
Maximum Elevation (Well ID)	3,505.49 (MW-13)
Minimum Elevation (Well ID)	3,504.81 (MW-6)
Average Change from Previous Monitoring Event – All Wells	-0.19 feet
Average Hydraulic Gradient (ft/ft) / (Well IDs)	0.0028 (MW-13 to MW-6)

3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from each of the 16 monitoring wells using disposable polyethylene bailers.

A minimum of three well casing volumes of groundwater were purged from each monitoring well prior to collecting groundwater samples. Groundwater samples were placed in clean laboratory supplied containers for the selected analytical methods, packed in an ice-filled cooler and maintained at approximately four (4) degrees Celsius (°C) for transportation to the laboratory. Groundwater samples were then shipped under chain-of-custody procedures to Pace Analytical laboratory (Pace) in Mount Juliet, Tennessee, for analysis.

Water quality samples were submitted for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B.

Table 2 summarizes BTEX concentrations in groundwater samples collected during the reporting period. Historical analytical results up to and including the second quarter 2022 event are included in Appendix A and the laboratory analytical report for the second quarter 2022 is included in Appendix B. Analytical results are also displayed on Figure 4.

Analytical results/observations are summarized below:

- Benzene concentrations in groundwater samples from wells MW-2 (0.017 milligrams per liter [mg/L]), MW-3 (1.29 mg/L), MW-4 (0.0697 mg/L), MW-5 (0.0167 mg/L and 0.0120 mg/L duplicate), MW-9 (0.696 mg/L), and MW-10 (0.129 mg/L) were in exceedance of the New Mexico Water Quality Control Commission (NMWQCC) standard of 0.005 mg/L. Benzene concentrations at the remaining 10 sample locations were reported below NMWQCC standards and/or below laboratory detection limits.
- Toluene, ethylbenzene, and total xylenes were not reported above the NMWQCC standard in any of the Site monitoring well locations (Table 2).
- Chloride was not measured during the June 27, 2022 groundwater sampling event.

3.3 Data Quality Assurance / Quality Control

A trip blank and field duplicate sample (MW-5) were collected during the second quarter 2022 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.

QA/QC items of note for the second quarter 2022 include the following:

- Target analytes were not detected in the trip blank.

The parent and duplicate samples collected from MW-5 exhibited benzene concentrations of 0.0167 mg/L and 0.0120 mg/L, respectively, yielding a relative percent difference (RPD) of 32.75 % which is outside the target range of 20%. Based on the data review, the data precision and accuracy for the second quarter 2022 parent and duplicate samples were above the target control range of 20%. Results exceeding the field duplicate precision goal and the high RPD value is likely attributed to non-homogeneity distribution of target analytes within the sample matrix. The overall QA/QC assessment, based on the data review and with the exceptions noted, indicate that data precision and accuracy are acceptable.

4. Remediation Activities

Mobile vacuum enhanced fluid recovery (EFR) and air sparge (AS) remediation events were conducted during the reporting period. AS remediation activities were initiated in conjunction with EFR as described in the following section to address residual dissolved phase BTEX concentrations at the Site.

4.1 Vacuum Enhanced Fluid Recovery and Air Sparge Remediation

Mobile EFR/AS events were conducted at the Site on June 28, 2022 which included application of high vacuum (using a vacuum truck) and compressed air (using a portable air compressor) to individual well points through EFR and AS downhole stinger pipe/tube assemblies. At the wells where EFR was being conducted, the stinger pipe was placed slightly below the groundwater level, thereby removing impacted groundwater and vapors from the subsurface.

Prior to conducting EFR activities, depth to water measurements were collected at monitoring wells that have historically contained LNAPL and/or the highest dissolved phase benzene concentrations (MW-3, MW-4, MW-9, and MW-10). LNAPL was not detected in any of the Site monitoring wells during the second quarter 2022.

On June 28, 2022, EFR was applied simultaneously to monitoring wells MW-4 and MW-10 for an approximate 8-hour period, which produced approximately 60 barrels (bbls) of groundwater. The recovered groundwater was transported for disposal at the Cooper Disposal Facility in Hobbs, New Mexico.

AS was applied simultaneously to well locations MW-3 and MW-9 on June 28, 2022 via a removable stinger assembly to enable sparge air to be introduced into the well column and formation below the water table. During the event, AS was applied to the wells for approximately 8-hours with a continuous average pressure of 30 pounds per square inch (psi) and a continuous flow of 22 - 25 cubic feet per minute (cfm).

5. Conclusions

Comparison of the second quarter 2022 monitoring data and historical information provides the following general observations:

- The groundwater elevation beneath the Site has remained relatively stable with minor seasonal and annual fluctuations since monitoring was initiated in 2008.
- Measurable amounts of LNAPL were not observed in any of the Site monitoring wells during the second quarter 2022. LNAPL has not been observed at the Site since the First Quarter 2015.
- Benzene concentrations continue to be reported above NMWQCC standards in monitoring wells MW-2, MW-3, MW-4, MW-5, MW-9, and MW-10. At MW-1, concentrations have historically fluctuated above and below NMWQCC standards, likely a result of fluctuating seasonal groundwater levels. However, benzene concentrations at MW-1 have been reported below NMWQCC standards since second quarter 2020. Benzene concentrations at MW-5 remained above NMWQCC standards for the fourth consecutive quarter after being below standards during the second quarter 2021. However, this well has historically exhibited concentrations greater than NMWQCC standards since 2009. An overall decreasing trend in benzene concentrations is observed by referencing historical data for this Site.
- Toluene, ethylbenzene, and total xylene levels were not observed above the NMWQCC standards in any of the Site monitoring well locations.
- Chloride was not measured during the June 27, 2022 sampling event.

6. Recommendations

Based on evaluation of data from the second quarter 2022 and historical Site observations and monitoring results, recommendations for future activities include:

- Continue quarterly groundwater monitoring and sampling for BTEX at the monitoring well locations illustrated on Figure 2.
- Continue semi-annual sampling activities for chloride analysis to be conducted during the first (March) and third (September) quarter sampling events each calendar year.
- Following a hiatus in EFR/AS events at the beginning of 2020, quarterly EFR/AS efforts were resumed during the third quarter 2020 and have continued on a quarterly basis through second quarter 2022.
- Further EFR/AS remediation efforts will be assessed following the 2022 quarterly monitoring events to determine its effectiveness in reducing dissolved phase benzene concentrations.

Tables

TABLE 1
SECOND QUARTER 2022
SUMMARY OF GROUNDWATER ELEVATION DATA
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW-1	09/27/2021	28.94			NM	3534.57	3505.63	-0.08
MW-1	12/20/2021	29.03			38.48	3534.57	3505.54	-0.09
MW-1	03/28/2022	29.08			38.48	3534.57	3505.49	-0.05
MW-1	06/27/2022	29.28			38.48	3534.57	3505.29	-0.20
MW-2	09/27/2021	29.80			NM	3535.18	3505.38	-0.30
MW-2	12/20/2021	29.71			39.62	3535.18	3505.47	0.09
MW-2	03/28/2022	29.73			39.62	3535.18	3505.45	-0.02
MW-2	06/27/2022	29.91			39.62	3535.18	3505.27	-0.18
MW-3	09/27/2021	30.95			NM	3536.57	3505.62	-0.27
MW-3	12/20/2021	31.05			39.97	3536.57	3505.52	-0.10
MW-3	03/28/2022	31.07			39.97	3536.57	3505.50	-0.02
MW-3	06/27/2022	31.26			39.97	3536.57	3505.31	-0.19
MW-4	09/27/2021	30.02			NM	3535.20	3505.18	-0.13
MW-4	12/20/2021	30.10			40.04	3535.20	3505.10	-0.08
MW-4	03/28/2022	30.10			40.04	3535.20	3505.10	0.00
MW-4	06/27/2022	30.30			40.04	3535.20	3504.90	-0.20
MW-5	09/27/2021	30.67			NM	3535.92	3505.25	-0.07
MW-5	12/20/2021	30.77			40.50	3535.92	3505.15	-0.10
MW-5	03/28/2022	30.81			40.50	3535.92	3505.11	-0.04
MW-5	06/27/2022	30.99			40.50	3535.92	3504.93	-0.18
MW-6	09/27/2021	31.04			40.58	3536.16	3505.12	-0.07
MW-6	12/20/2021	31.10			40.58	3536.16	3505.06	-0.06
MW-6	03/28/2022	31.18			40.58	3536.16	3504.98	-0.08
MW-6	06/27/2022	31.35			40.58	3536.16	3504.81	-0.17
MW-7	09/27/2021	31.73			39.60	3537.09	3505.36	-1.05
MW-7	12/20/2021	31.84			40.20	3537.09	3505.25	-0.11
MW-7	03/28/2022	31.88			40.20	3537.09	3505.21	-0.04
MW-7	06/27/2022	32.09			40.20	3537.09	3505.00	-0.21
MW-8	09/27/2021	30.65			38.58	3536.41	3505.76	-0.06
MW-8	12/20/2021	30.72			38.71	3536.41	3505.69	-0.07
MW-8	03/28/2022	30.80			38.71	3536.41	3505.61	-0.08
MW-8	06/27/2022	31.00			38.71	3536.41	3505.41	-0.20
MW-9	09/27/2021	28.55			34.16	3534.20	3505.65	-0.10
MW-9	12/20/2021	28.65			38.02	3534.20	3505.55	-0.10
MW-9	03/28/2022	28.68			38.02	3534.20	3505.52	-0.03
MW-9	06/27/2022	28.86			38.02	3534.20	3505.34	-0.18
MW-10	09/27/2021	28.80			38.35	3534.21	3505.41	-0.10
MW-10	12/20/2021	28.90			37.20	3534.21	3505.31	-0.10
MW-10	03/28/2022	28.93			37.20	3534.21	3505.28	-0.03
MW-10	06/27/2022	29.12			37.20	3534.21	3505.09	-0.19
MW-11	09/27/2021	30.93			38.85	3536.19	3505.26	0.02
MW-11	12/20/2021	30.05			39.48	3536.19	3506.14	0.88
MW-11	03/28/2022	31.10			39.48	3536.19	3505.09	-1.05
MW-11	06/27/2022	31.26			39.48	3536.19	3504.93	-0.16
MW-12	09/27/2021	29.21			33.88	3534.47	3505.26	-0.06
MW-12	12/20/2021	29.30			31.15	3534.47	3505.17	-0.09
MW-12	03/28/2022	29.37			31.15	3534.47	3505.10	-0.07
MW-12	06/27/2022	29.54			31.15	3534.47	3504.93	-0.17
MW-13	09/27/2021	30.25			38.78	3536.08	3505.83	-0.08
MW-13	12/20/2021	30.33			38.74	3536.08	3505.75	-0.08
MW-13	03/28/2022	30.41			38.74	3536.08	3505.67	-0.08
MW-13	06/27/2022	30.59			38.74	3536.08	3505.49	-0.18

TABLE 1
SECOND QUARTER 2022
SUMMARY OF GROUNDWATER ELEVATION DATA
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW-14	09/27/2021	29.37			40.92	3534.96	3505.59	-0.08
MW-14	12/20/2021	29.50			41.50	3534.96	3505.46	-0.13
MW-14	03/28/2022	29.55			41.50	3534.96	3505.41	-0.05
MW-14	06/27/2022	29.76			41.50	3534.96	3505.20	-0.21
MW-15	09/27/2021	29.62			36.06	3534.90	3505.28	-0.13
MW-15	12/20/2021	29.68			36.56	3534.90	3505.22	-0.06
MW-15	03/28/2022	29.72			36.56	3534.90	3505.18	-0.04
MW-15	06/27/2022	29.92			36.56	3534.90	3504.98	-0.20
MW-16	09/27/2021	28.46			42.30	3533.68	3505.22	0.93
MW-16	12/20/2021	28.55			42.30	3533.68	3505.13	-0.09
MW-16	03/28/2022	28.60			42.30	3533.68	3505.08	-0.05
MW-16	06/27/2022	28.80			42.30	3533.68	3504.88	-0.20
						Average change in groundwater elevation (3/28/2022 to 6/27/2022)		-0.19

Notes:
1- 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.
amsl = feet above mean sea level
TOC = top of casing
Groundwater elevation = (TOC Elevation - Measured Depth to Water)
* Groundwater elevation was corrected for product thickness using the following calculation, when applicable:
Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)
LNAPL relative density is assumed to be approximately 0.75
NM = Not Measured NC = Not Calculated

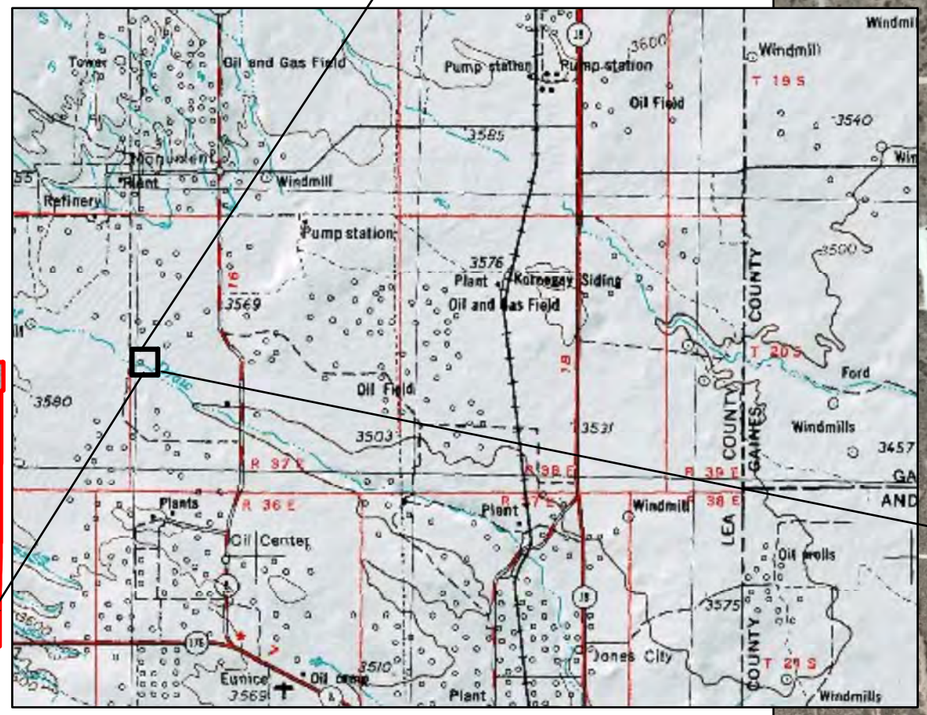
TABLE 2
SECOND QUARTER 2022
SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

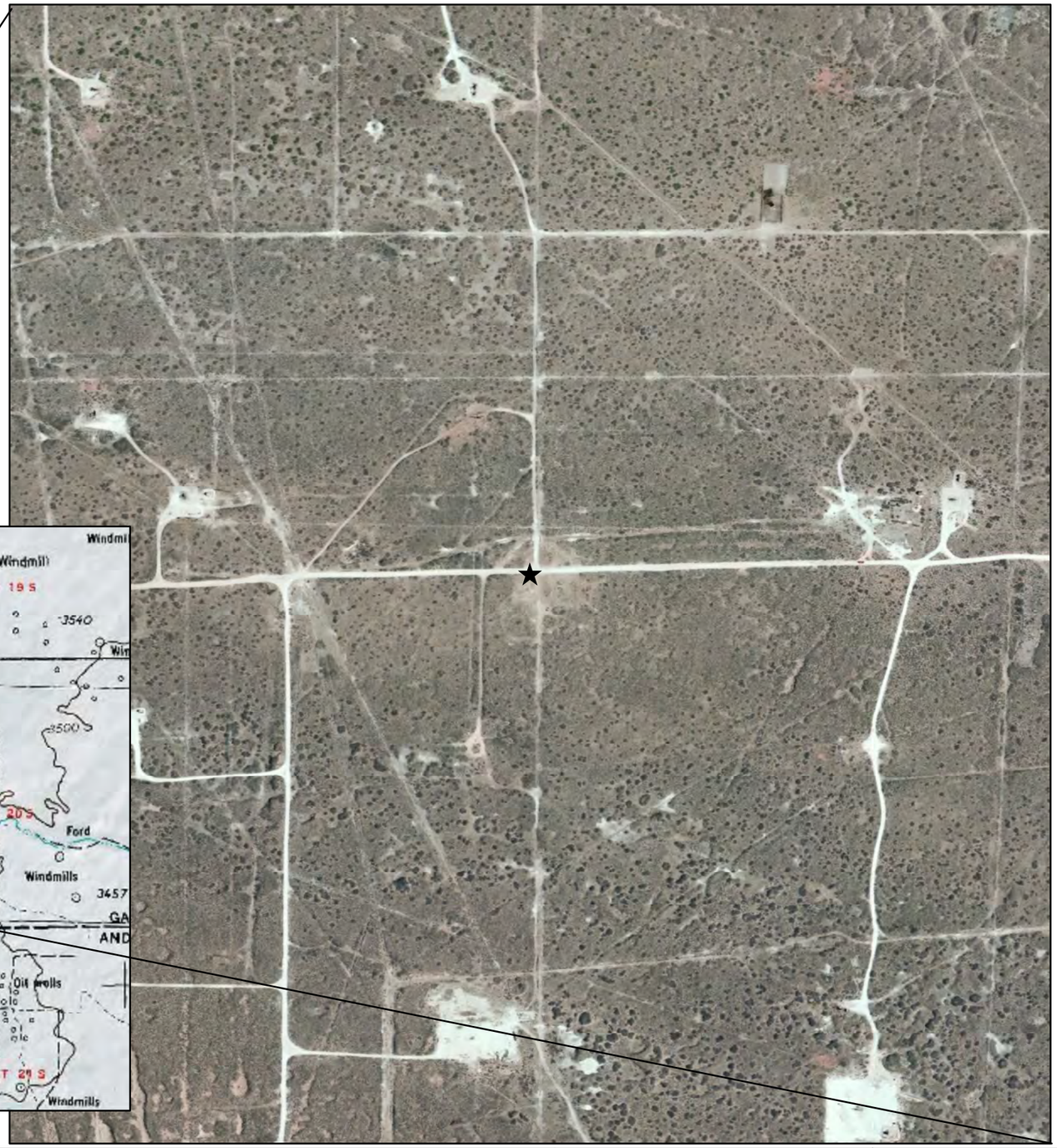
Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-1	06/27/2022	0.00104	0.000311 J	0.0013	0.00120 J	NA	
MW-2	06/27/2022	**0.017**	<0.00100	0.000947 J	0.00199 J	NA	
MW-3	06/27/2022	**1.29**	<0.00100	0.313	0.723	NA	
MW-4	06/27/2022	**0.0697**	<0.00100	0.0689	0.0655	NA	
MW-5	06/27/2022	**0.0167**	<0.00100	0.103	0.0819	NA	Duplicate Sample Collected
MW-5 (Duplicate)	06/27/2022	**0.0120**	<0.00500	0.0823	0.0611	NA	
MW-6	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-7	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-8	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-9	06/27/2022	**0.696**	0.0200	0.0595	0.118	NA	
MW-10	06/27/2022	**0.129**	<0.00100	0.00585	0.00966	NA	
MW-11	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-12	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-13	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-14	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-15	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-16	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
Trip Blank	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	

Notes:
Bold red values indicate an exceedance of the NMWQCC groundwater standards for the Site.
NMWQCC = New Mexico Water Quality Control Commission
LNAPL = Light Non-Aqueous Phase Liquid
B = A qualifier indicating an analyte was detected in both the sample and the associated Method Blank (MB)
J = A qualifier indicating the identification of the analyte is acceptable; the reported value is an estimate.
NS = Not Sampled
NA = Not Analyzed
mg/L = milligrams per liter

Figures

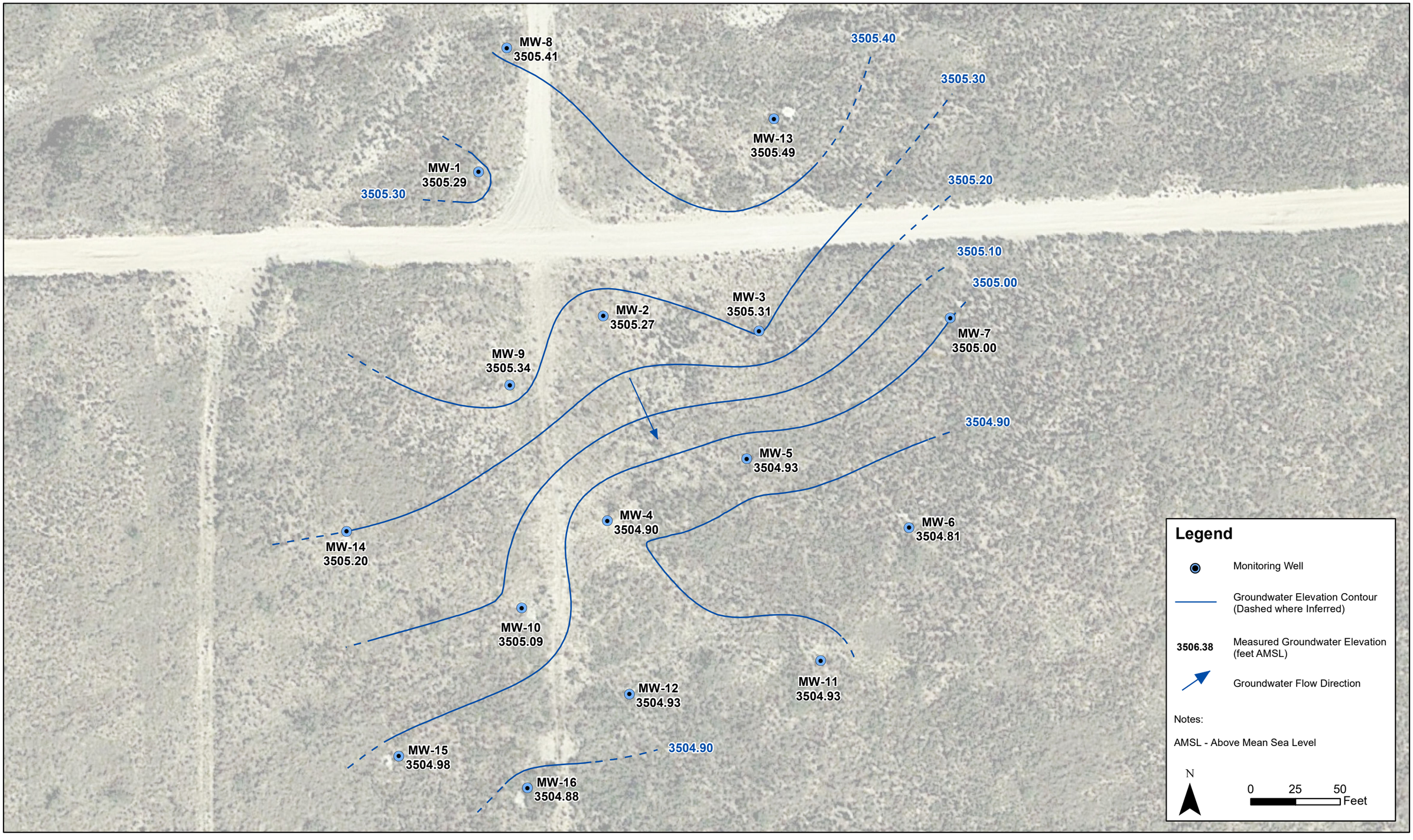
N



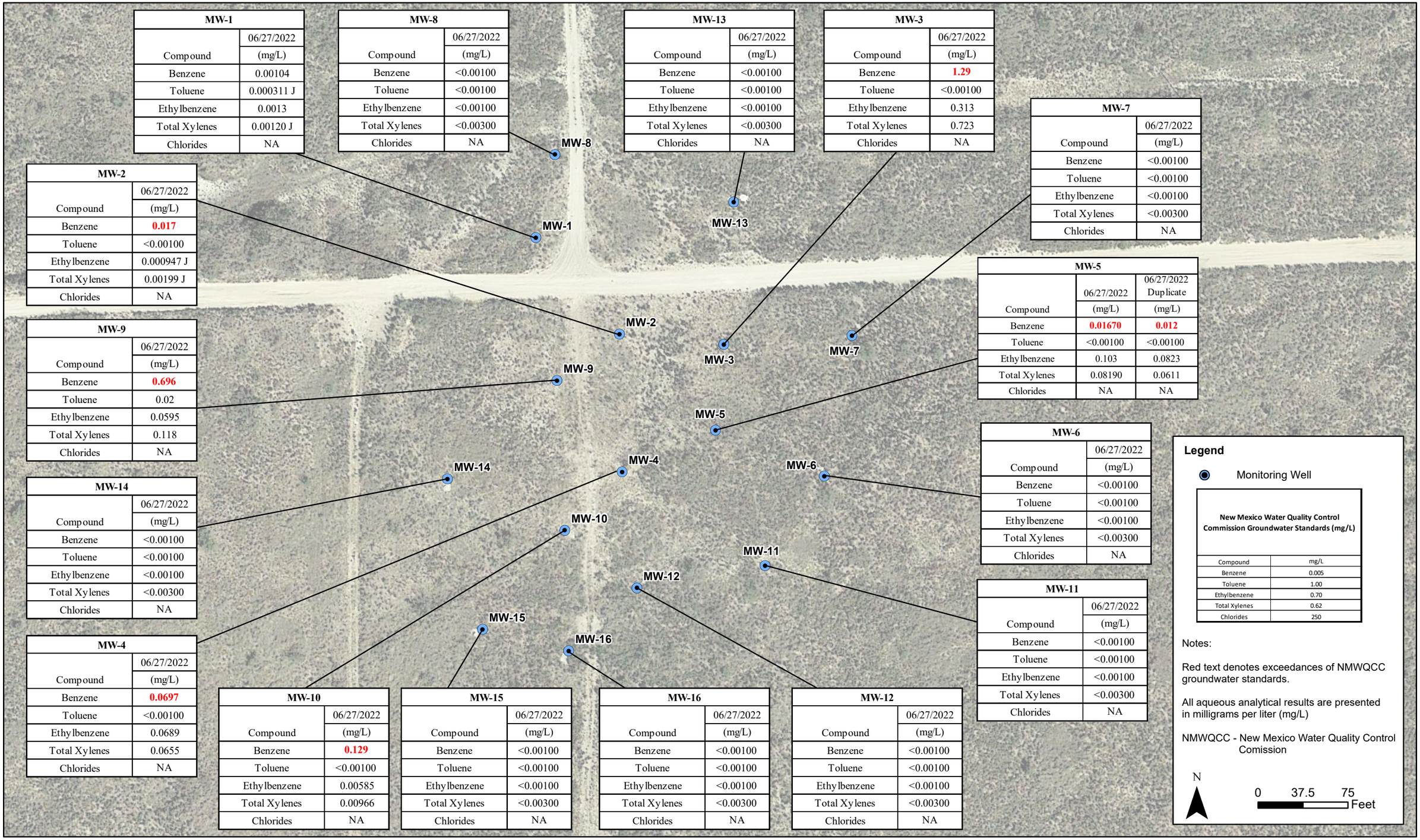


DATE: July 2015 DESIGNED BY: T. Johansen DRAWN BY: D. Arnold	TASMAN Tasman, Inc. 6855 W. 119th Ave Broomfield, CO 80020	**DCP Midstream** **RR-Extension Pipeline Release** NE 1/4, NW 1/4, Section 19, Township 20 South, Range 37 East Lea County, New Mexico	Site Location Map	Figure 1

DATE: December 2019 DESIGNED BY: B. Humphrey DRAWN BY: L. Martin	TASMAN **Tasman Geosciences, Inc.** **6855 W. 119th Ave** **Broomfield, CO 80020**	**DCP Midstream** **RR-Extension Pipeline Release** Second Quarter 2022 Groundwater Monitoring Summary Report	Site Map with Monitoring Well Locations	Figure 2



DATE: August 2022 DESIGNED BY: J. Watts DRAWN BY: L. Reed	TASMAN Tasman, Inc. 6855 W. 119th Ave Broomfield, CO 80020	**DCP Midstream** **RR-Extension Pipeline Release** Second Quarter 2022 Groundwater Monitoring Summary Report	Groundwater Elevation Contour Map (June 27, 2022)	Figure 3



MW-1	
Compound	06/27/2022 (mg/L)
Benzene	0.00104
Toluene	0.000311 J
Ethylbenzene	0.0013
Total Xylenes	0.00120 J
Chlorides	NA

MW-8	
Compound	06/27/2022 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	NA

MW-13	
Compound	06/27/2022 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	NA

MW-3	
Compound	06/27/2022 (mg/L)
Benzene	**1.29**
Toluene	<0.00100
Ethylbenzene	0.313
Total Xylenes	0.723
Chlorides	NA

MW-7	
Compound	06/27/2022 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	NA

MW-2	
Compound	06/27/2022 (mg/L)
Benzene	**0.017**
Toluene	<0.00100
Ethylbenzene	0.000947 J
Total Xylenes	0.00199 J
Chlorides	NA

MW-5		
Compound	06/27/2022 (mg/L)	06/27/2022 Duplicate (mg/L)
Benzene	**0.01670**	**0.012**
Toluene	<0.00100	<0.00100
Ethylbenzene	0.103	0.0823
Total Xylenes	0.08190	0.0611
Chlorides	NA	NA

MW-9	
Compound	06/27/2022 (mg/L)
Benzene	**0.696**
Toluene	0.02
Ethylbenzene	0.0595
Total Xylenes	0.118
Chlorides	NA

MW-6	
Compound	06/27/2022 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	NA

MW-14	
Compound	06/27/2022 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	NA

MW-11	
Compound	06/27/2022 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	NA

MW-4	
Compound	06/27/2022 (mg/L)
Benzene	**0.0697**
Toluene	<0.00100
Ethylbenzene	0.0689
Total Xylenes	0.0655
Chlorides	NA

MW-10	
Compound	06/27/2022 (mg/L)
Benzene	**0.129**
Toluene	<0.00100
Ethylbenzene	0.00585
Total Xylenes	0.00966
Chlorides	NA

MW-15	
Compound	06/27/2022 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	NA

MW-16	
Compound	06/27/2022 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	NA

MW-12	
Compound	06/27/2022 (mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	NA

Legend

Monitoring Well

New Mexico Water Quality Control Commission Groundwater Standards (mg/L)

Compound	mg/L
Benzene	0.005
Toluene	1.00
Ethylbenzene	0.70
Total Xylenes	0.62
Chlorides	250

Notes:

Red text denotes exceedances of NMWQCC groundwater standards.

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

NMWQCC - New Mexico Water Quality Control Comission

N

0 37.5 75 Feet

DATE: August 2022

DESIGNED BY: B. Humphrey

DRAWN BY: L. Reed

TASMAN

Tasman, Inc.
6855 W. 119th Ave
Broomfield, CO 80020

DCP Midstream
RR-Extension Pipeline Release
Second Quarter 2022 Groundwater Monitoring Summary Report

Analytical Results Map (June 27, 2022)

Figure 4

Appendix A

Historical Analytical Results

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-1	3/2008	**1.4**	0.0395	**0.948**	0.128	NA	
MW-1	6/2008	**2.75**	0.054	**2.17**	0.232	NA	
MW-1	9/2008	**1.1**	0.0375	**0.845**	0.131	**507**	
MW-1	12/2008	**0.869**	0.0385	0.581	0.0709	**447**	
MW-1	3/2009	**0.288**	0.0149	0.107	0.0395	**432**	
MW-1	5/2009	**1.38**	0.0705	0.175	0.065	**462**	
MW-1	9/2009	**0.267**	0.024	0.0332	0.0078	**422**	
MW-1	12/2009	**0.819**	0.088	0.0267	0.012	**363**	
MW-1	3/2010	**0.726**	0.0879	0.107	0.0278	**800**	
MW-1	6/2010	**0.339**	0.0539	0.0329	0.0079	**510**	
MW-1	9/2010	**1.99**	0.0951	0.084	0.0219	**442**	
MW-1	12/2010	**0.708**	0.0796	0.0099	0.0047	**448**	
MW-1	03/30/2011	**0.0241**	<0.001	0.0136	0.0055	**457**	
MW-1	06/22/2011	**0.0735**	<0.01	0.0293	<0.02	**467**	
MW-1	09/17/2011	**0.144**	0.038	0.0069	0.0087	**472**	Duplicate sample collected
MW-1	12/08/2011	**0.076**	0.002	0.0227	0.0024	**462**	Duplicate sample collected
MW-1	03/10/2012	**0.029**	<0.002	0.0072	<0.004	**497**	Duplicate sample collected
MW-1	06/05/2012	**0.069**	0.0014	0.0112	<0.003	**470**	Duplicate sample collected
MW-1	09/09/2012	**0.0216**	<0.002	0.0029	<0.003	**465**	Duplicate sample collected
MW-1	12/04/2012	**0.0194**	<0.002	0.0024	<0.003	**445**	Duplicate sample collected
MW-1	02/22/2013	0.0063	<0.002	0.00066	<0.003	**474**	Duplicate sample collected
MW-1	06/02/2013	**0.0313**	<0.002	0.0028	<0.003	**451**	Duplicate sample collected
MW-1	09/10/2013	0.0092	<0.002	0.0016	<0.003	**400**	Duplicate sample collected
MW-1	12/03/2013	0.0067	<0.002	0.00075	<0.003	**458**	Duplicate Sample Collected
MW-1	02/27/2014	**0.0449**	<0.002	0.0044	<0.003	**474**	Duplicate Sample Collected
MW-1 (duplicate)	02/27/2014	**0.0331**	<0.002	0.0037	<0.003	**489**	
MW-1	06/03/2014	**0.0157**	<0.002	0.0018 J	<0.003	**466**	Duplicate Sample Collected
MW-1 (duplicate)	06/03/2014	**0.0157**	<0.002	0.0017 J	<0.003	**488**	
MW-1	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-1	12/01/2014	**4.94**	0.33	0.332	0.271	**361**	Duplicate Sample Collected
MW-1 (duplicate)	12/01/2014	**5.58**	0.455	0.384	0.3435	**350**	
MW-1	02/25/2015	**0.68**	0.0013	0.065	0.0048	**458**	Duplicate Sample Collected
MW-1 (duplicate)	02/25/2015	**0.56**	0.0013	0.062	0.0043	**452**	
MW-1	06/01/2015	**0.015**	<0.001	0.0067	<0.003	**488**	Duplicate sample collected
MW-1 (duplicate)	06/01/2015	**0.015**	0.0096	0.012	0.022	**502**	
MW-1	08/31/2015	0.0019	<0.001	<0.001	<0.003	**461**	Duplicate sample collected
MW-1 (duplicate)	08/31/2015	0.0013	<0.001	<0.001	<0.003	**460**	
MW-1	12/14/2015	<0.001	<0.001	<0.001	<0.003	**455**	Duplicate sample collected
MW-1 (duplicate)	12/14/2015	<0.001	<0.001	<0.001	<0.003	**457**	
MW-1	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**453**	Duplicate sample collected
MW-1 (duplicate)	03/21/2016	0.0031	<0.0010	0.0013	<0.0030	**473**	
MW-1	06/20/2016	0.0036	<0.0010	<0.0010	<0.0030	**454**	
MW-1	09/29/2016	**1.4**	**4.8**	**1.1**	**2.4**	122	
MW-1	12/19/2016	**1.8**	0.026	0.5	0.21	**312**	
MW-1	03/06/2017	**0.6**	<0.010	0.19	<0.01	**434**	
MW-1	06/19/2017	0.0057	<0.0010	0.018	<0.001	**431**	
MW-1	09/25/2017	**0.778**	0.147	**0.833**	**0.672**	189	
MW-1	12/19/2017	**0.412**	<0.010	0.167	0.0378	**366**	
MW-1	03/13/2018	0.00552	<0.0010	0.00698	<0.0030	**399**	
MW-1	06/25/2018	0.00357	<0.0010	0.00231	0.00276 J	**415**	
MW-1	09/19/2018	**0.0162**	0.00187	0.00586	0.00917	**432**	
MW-1	12/11/2018	0.00430	<0.0010	0.00129	0.00191	NA	
MW-1	03/19/2019	0.00611	0.000492 J	0.00285	0.00342	**437**	
MW-1	06/03/2019	0.00469	0.000621 J	0.00272	0.00333	NA	
MW-1	09/23/2019	**0.0162**	0.00190	0.0180	0.0201	**473**	
MW-1	12/11/2019	**0.0360**	0.00890	0.0151	0.0300	NA	
MW-1	06/15/2020	0.00275	0.000289 J	0.00279	0.00309	NA	
MW-1	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**508**	
MW-1	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-1	03/29/2021	0.000803 J	<0.00100	0.00106	0.00106 J	505	
MW-1	06/21/2021	0.000326 J	<0.00100	0.000317	0.000214 J	NA	
MW-1	09/27/2021	0.000970 J	<0.00100	0.00103	0.000591 J	**552**	
MW-1	12/20/2021	0.00166 J	<0.00100	0.000325 J	0.000183 J	NA	
MW-1	03/28/2022	0.000477 J	<0.00100	0.000636 J	0.000997 J	**552**	
MW-1	06/27/2022	0.00104	0.000311 J	0.0013	0.00120 J	NA	
MW-2	3/2008	**8.98**	0.135	**6.58**	**0.765**		
MW-2	6/2008	**24.3**	0.319	**18.5**	**2.58**		
MW-2	9/2008	**21.7**	0.443	**9.79**	**4.25**	109	
MW-2	12/2008	Not Sampled: Remediation Activities					
MW-2	3/2009	**23.7**	0.538	**2.34**	**1.25**	114	
MW-2	5/2009	**32.7**	**0.791**	**1.31**	**1.69**	109	
MW-2	9/2009	**29.3**	0.491	**0.771**	0.371	139	
MW-2	12/2009	**28.5**	0.57	0.347	0.177	199	
MW-2	3/2010	**23.8**	0.529	0.71	<1.2	**700**	
MW-2	6/2010	**22.9**	0.485	0.39	0.128	233	
MW-2	9/2010	**17**	0.329	0.257	<0.8	**263**	
MW-2	12/2010	**16.9**	0.458	0.399	0.0926	**278**	
MW-2	03/30/2011	**16.6**	0.165	0.403	0.116	**320**	
MW-2	06/22/2011	**9.21**	0.0231	0.377	<0.4	**370**	
MW-2	09/17/2011	**4.07**	0.415	0.329	0.203	**375**	
MW-2	12/08/2011	**1.5**	0.0436	0.33	0.0254	**392**	
MW-2	03/10/2012	**1.04**	<0.04	0.134	<0.08	**444**	
MW-2	06/05/2012	**1.25**	0.106	0.158	0.0885	**346**	
MW-2	09/09/2012	**1.53**	0.203	0.138	0.14	**393**	
MW-2	12/04/2012	**1.26**	0.115	0.0854	0.116	**385**	
MW-2	02/22/2013	**4.53** (3)	0.474	0.298	0.482	**386**	
MW-2	06/02/2013	**1.25**	0.0582	0.0644	0.103	**406**	
MW-2	09/10/2013	**4.47**	0.374	0.226	0.375	**339**	
MW-2	12/03/2013	**0.9**	0.0569	0.0442	0.0671	**414**	
MW-2	02/27/2014	**4.41** (3)	0.599	0.312	0.493	**411**	
MW-2	06/03/2014	**0.842** (3)	0.05	0.0609	0.101	**440**	
MW-2	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-2	12/01/2014	**0.164**	0.0132	0.007	0.0106	**440**	
MW-2	02/25/2015	**4.3**	0.64	0.28	0.55	**370**	
MW-2	06/01/2015	**3.4**	0.48	0.28	0.37	**364**	
MW-2	08/31/2015	**1.4**	0.29	0.064	0.12	**347**	
MW-2	12/14/2015	**0.51**	0.079	0.033	0.059	**371**	
MW-2	03/21/2016	**1.5**	0.31	0.11	0.24	**355**	
MW-2	06/20/2016	**3.4**	0.7	0.16	0.3	**367**	
MW-2	09/26/2016	**1.1**	0.37	0.099	0.081	**382**	
MW-2	12/19/2016	**0.17**	0.033	0.035	0.02	**396**	
MW-2	03/06/2017	<0.0010	<0.0010	<0.0010	0.0026	**401**	
MW-2	06/19/2017	**0.18**	0.046	0.0031	0.059	**348**	
MW-2	09/25/2017	**1.45**	0.173	0.123	0.302	**354**	
MW-2	12/19/2017	**0.485**	0.0129	0.0441	0.122	**409**	
MW-2	03/13/2018	**0.0304**	0.00163	0.0024	0.00596	**352**	
MW-2	06/25/2018	**0.52**	0.00579 B J	0.0559	0.152	**296**	
MW-2	09/19/2018	**0.0659**	<0.0010	0.00527	0.0136	**283**	
MW-2	12/11/2018	**0.135**	<0.0010	0.0109	0.0304	NA	
MW-2	03/19/2019	**0.0427**	<0.0010	0.000671 J	0.00371	235	
MW-2	06/04/2019	**0.0335**	<0.0010	0.00392	0.00921	NA	
MW-2	09/23/2019	**0.0694**	0.000436 J	0.00789	0.0167	190	
MW-2	12/11/2019	**0.0714**	<0.0010	0.0137	0.0343	NA	
MW-2	06/15/2020	**0.102**	0.000298 J	0.00683	0.0152	NA	
MW-2	09/21/2020	**0.0335**	<0.00100	<0.0010	0.000749 J	**309**	
MW-2	12/14/2020	**0.0439**	<0.00100	0.000486 J	0.00216 J	NA	
MW-2	03/29/2021	**0.0212**	<0.00100	0.000330 J	0.000116 J	339	
MW-2	06/21/2021	**0.0506**	<0.00100	0.000283 J	0.00149 J	NA	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-2	09/27/2021	**0.0221**	<0.00100	0.000504 J	0.000750 J	**380**	
MW-2	12/20/2021	**0.00815**	<0.00100	0.000166 J	0.000573 J	NA	
MW-2	03/28/2022	**0.0273**	<0.00100	0.00172	0.00256 J	**397**	
MW-2	06/27/2022	**0.017**	<0.00100	0.000947 J	0.00199 J	NA	
MW-3	3/2008	**0.759**	0.0355	**0.849**	0.0786		
MW-3	6/2008	**6.18**	0.287	**9.46**	**1.23**		
MW-3	9/2008	**2.45**	0.145	**3.62**	**114**	**363**	
MW-3	12/2008	**0.761**	0.0492	**0.938**	0.158	**301**	
MW-3	3/2009	**4.03**	0.18	**2.83**	0.61	**273**	
MW-3	5/2009	**14.7**	**0.808**	**12.6**	**1.64**	**313**	
MW-3	9/2009	**5.5**	0.271	**1.09**	<0.006	**363**	
MW-3	12/2009	**13.1**	**1.2**	**9.08**	**2.87**	**398**	
MW-3	3/2010	**8.43**	**1.01**	**9.14**	**2.71**	**440**	
MW-3	6/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	9/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	12/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	03/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	06/22/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	09/17/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	12/08/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	03/10/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	06/05/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	09/09/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	12/04/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	02/22/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	06/02/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	09/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	12/03/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	02/27/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	06/03/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-3	12/01/2014	**4.47**	**0.844**	0.529	**1.308**	NS	
MW-3	02/25/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-3	06/01/2015	**3.2**	**0.95**	0.72	**2.9**	**391**	
MW-3	08/31/2015	**3**	0.31	0.3	0.5	**382**	
MW-3	12/14/2015	**4.7**	**2**	**0.9**	**2.7**	**381**	
MW-3	03/21/2016	**2.8**	**0.81**	0.54	**1.4**	**387**	
MW-3	06/20/2016	**2.2**	0.34	0.36	0.35	**386**	
MW-3	09/26/2016	**2.2**	0.62	0.72	**1.2**	**412**	
MW-3	12/19/2016	**3.7**	0.56	0.6	**1.1**	**434**	
MW-3	03/06/2017	**1.4**	0.07	0.32	0.14	**406**	
MW-3	06/19/2017	**2.5**	0.13	0.68	0.36	**393**	
MW-3	09/25/2017	**2.18**	0.0676	0.33	0.243	**400**	
MW-3	12/19/2017	**3.81**	0.396	**0.863**	**1.02**	**418**	
MW-3	03/13/2018	**1.71**	<0.10	0.225	0.280 J	**398**	
MW-3	06/25/2018	**3.19**	0.143	0.560	**0.662**	**378**	
MW-3	09/19/2018	**1.82**	0.0546	0.364	0.273	**405**	Duplicate Sample Collected
MW-3 (Duplicate)	09/19/2018	**1.61**	0.0765	0.226	0.378	**399**	
MW-3	12/11/2018	<0.0010	0.106	0.312	0.343	NA	
MW-3	03/19/2019	**1.31**	0.127	0.250	0.285	**386**	
MW-3	06/04/2019	**0.759**	0.0413	0.106	0.149	NA	
MW-3	09/23/2019	**2.89**	0.124	0.323	0.385	**359**	
MW-3	12/11/2019	**0.578**	0.0148	0.0863	0.0978	NA	
MW-3	06/15/2020	**2.71**	<0.0050	0.556	**0.703**	NA	
MW-3	09/21/2020	**1.44**	<0.0500	0.202	0.295	412	
MW-3	12/14/2020	**1.60**	<0.0500	0.247	0.42	NA	
MW-3	03/29/2021	**0.47**	<0.0100	<0.0100	0.168	424	
MW-3	06/21/2021	**1.22**	<0.0100	0.101	0.288	NA	
MW-3	09/27/2021	**1.13**	<0.0100	0.121	0.286	**452**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-3	12/20/2021	**0.492**	<0.0500	0.0826	0.199	NA	
MW-3	03/28/2022	**0.387**	<0.0100	0.0742	0.166	**466**	
MW-3	06/27/2022	**1.29**	<0.00100	0.313	0.723	NA	
MW-4	3/2008	**0.0102**	<0.002	0.0093	0.0023		
MW-4	6/2008	**0.0439**	0.0068	0.0256	0.0147		
MW-4	9/2008	**0.514**	0.0203	0.443	0.125	**318**	
MW-4	12/2008	**1.32**	0.0812	**1.35**	0.239	**281**	
MW-4	3/2009	**3.61**	0.164	**3.4**	**0.831**	**229**	
MW-4	5/2009	**4.7**	0.428	**2.94**	**1.03**	**226**	
MW-4	9/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/2009	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	3/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	6/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	9/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	03/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	06/22/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	09/17/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/08/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	03/10/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	06/05/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	09/09/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/04/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	02/22/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	06/02/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	09/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/03/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	02/27/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	06/03/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-4	12/01/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	02/25/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	06/01/2015	**0.59**	**1.3**	0.71	**2.2**	**289**	
MW-4	08/31/2015	**0.089**	0.031	0.036	0.12	**287**	
MW-4	12/14/2015	**0.43**	0.38	0.63	**1.8**	**280**	
MW-4	03/21/2016	**0.44**	0.3	**0.82**	**2.3**	**286**	
MW-4	06/20/2016	**0.036**	0.0016	0.029	0.052	**314**	
MW-4	09/26/2016	**0.038**	<0.0010	0.0068	0.02	**305**	
MW-4	12/19/2016	**0.41**	0.023	0.38	**0.88**	**310**	
MW-4	03/06/2017	0.0052	<0.0050	0.0051	0.0083	**341**	
MW-4	06/19/2017	**0.034**	<0.0050	0.098	0.26	**319**	
MW-4	09/25/2017	**0.727**	<0.5	0.722	**1.02**	**314**	
MW-4	12/19/2017	**0.285**	0.0118	**1.22**	**2.83**	**338**	
MW-4	03/13/2018	**0.0508**	<0.010	0.104	0.239	**349**	
MW-4	06/25/2018	**0.187**	<0.0050	0.426	**0.779**	**321**	
MW-4	09/19/2018	**0.0103**	<0.0010	0.0148	0.0318	**330**	
MW-4	12/11/2018	**0.0889**	<0.0010	0.0955	0.210	NA	
MW-4	03/19/2019	**0.235**	<0.0010	0.232	0.392	**307**	
MW-4	06/04/2019	**0.0582**	<0.0010	0.0337	0.0503	NA	
MW-4	09/23/2019	**0.205**	0.000725	0.122	0.204	**294**	
MW-4	12/11/2019	**0.0418**	<0.0100	<0.0100	0.0307	NA	
MW-4	06/15/2020	**0.373**	<0.0100	0.275	0.382	NA	
MW-4	09/21/2020	**0.00789**	<0.00100	0.00433	0.00390	**315**	
MW-4	12/14/2020	**0.00566**	<0.00100	0.0316	0.0348	NA	
MW-4	03/29/2021	**0.00789**	<0.00100	0.00506	0.00464	277	
MW-4	06/21/2021	**0.0538**	<0.00100	0.0283	0.02390	NA	
MW-4	09/27/2021	**0.0518**	<0.00100	0.0315	0.0257	**252**	
MW-4	12/20/2021	**0.0158**	<0.00100	0.0153	0.0126	NA	
MW-4	03/28/2022	**0.0255**	<0.00100	0.0261	0.0251	235	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-4	06/27/2022	**0.0697**	<0.00100	0.0689	0.0655	NA	
MW-5	3/2008	0.0019	<0.002	0.0012	<0.006		
MW-5	6/2008	0.0037	<0.002	0.0037	<0.006		
MW-5	9/2008	0.0038	<0.002	0.0037	<0.006	**373**	
MW-5	12/2008	0.0031	<0.002	0.004	<0.006	**318**	
MW-5	3/2009	0.0067	<0.002	0.0074	<0.006	**288**	
MW-5	5/2009	0.0064	<0.002	0.0089	<0.006	**363**	
MW-5	9/2009	0.0082	0.00066	0.0132	<0.006	**358**	
MW-5	12/2009	0.0096	0.0013	0.0155	0.0021	**313**	
MW-5	3/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	6/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	9/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	12/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	03/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	06/22/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/17/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	12/08/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	03/10/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	06/05/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/09/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	12/04/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	02/22/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	06/02/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	12/03/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	02/27/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	06/03/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-5	12/01/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	02/25/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	06/01/2015	**0.5**	**1.9**	**1.4**	**4**	**424**	
MW-5	08/31/2015	**0.024**	0.027	0.061	0.091	**741**	
MW-5	12/14/2015	**0.36**	**0.83**	**0.83**	**2.2**	**407**	
MW-5	03/21/2016	**0.19**	0.56	0.72	**2.3**	**413**	
MW-5	06/20/2016	**0.19**	0.49	0.69	**2**	**410**	Duplicate Sample Collected
MW-5 (Duplicate)	06/20/2016	**0.054**	0.14	0.23	**0.66**	**410**	
MW-5	09/26/2016	**0.093**	0.29	0.29	**0.88**	**432**	Duplicate Sample Collected
MW-5 (Duplicate)	09/26/2016	**0.16**	0.47	0.49	**1.5**	**444**	
MW-5	12/19/2016	**0.091**	0.04	0.46	**1.3**	**427**	Duplicate Sample Collected
MW-5 (Duplicate)	12/19/2016	**0.15**	0.072	**0.79**	**2.2**	**447**	
MW-5	03/06/2017	**0.029**	0.0051	0.17	0.4	**417**	Duplicate Sample Collected
MW-5 (Duplicate)	03/06/2017	**0.039**	0.0064	0.15	0.55	**429**	
MW-5	06/19/2017	**0.05**	<0.0050	**0.32**	**0.82**	**402**	
MW-5 (Duplicate)	06/19/2017	**0.04**	0.0012	0.15	0.38	**408**	
MW-5	09/25/2017	**0.0174**	0.00102	0.0779	0.175	**422**	Duplicate Sample Collected
MW-5 (Duplicate)	09/25/2017	**0.0229**	<0.0050	0.116	0.267	**401**	
MW-5	12/19/2017	**0.0541**	0.00155	0.517	**1.28**	**426**	Duplicate Sample Collected
MW-5 (Duplicate)	12/19/2017	**0.050**	<0.0050	0.459	**1.16**	**466**	
MW-5	03/13/2018	**0.04**	<0.020	0.188	0.481	**433**	Duplicate Sample Collected
MW-5 (Duplicate)	03/13/2018	**0.0306**	<0.0050	0.159	0.415	**428**	
MW-5	06/25/2018	0.00685	<0.0010	0.0365	0.0831	**399**	Duplicate Sample Collected
MW-5 (Duplicate)	06/25/2018	**0.0244**	0.000663 J	0.0829	0.183	**421**	
MW-5	09/19/2018	**0.14**	0.0145 J	0.507	**1.08**	**421**	
MW-5	12/11/2018	**0.0702**	0.0152 J	0.111	0.218	NA	Duplicate Sample Collected
MW-5 (Duplicate)	12/11/2018	**0.101**	0.00984	0.186	0.401	NA	
MW-5	03/19/2019	**0.0536**	<0.020	0.206	0.464	**421**	Duplicate Sample Collected
MW-5 (Duplicate)	03/19/2019	**0.0628**	0.0021 J	0.231	0.515	**434**	
MW-5	06/04/2019	**0.03**	<0.0050	0.0996	0.222	NA	Duplicate Sample Collected
MW-5 (Duplicate)	06/04/2019	**0.0266**	<0.0050	0.0807	0.175	NA	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-5	09/23/2019	**0.0503**	<0.0010	0.129	0.267	**443**	Duplicate Sample Collected
MW-5 (Duplicate)	09/23/2019	**0.0388**	<0.0050	0.114	0.228	**435**	
MW-5	12/11/2019	**0.0721**	0.0326	0.155	0.376	NA	Duplicate Sample Collected
MW-5 (Duplicate)	12/11/2019	**0.0657**	0.0132	0.139	0.324	NA	
MW-5	06/15/2020	**0.0662**	<0.0010	0.0859	0.148	NA	Duplicate Sample Collected
MW-5 (Duplicate)	06/15/2020	**0.0668**	<0.0010	0.0825	0.137	NA	
MW-5	09/21/2020	**0.0215**	<0.0100	0.0423	0.0698	**463**	Duplicate Sample Collected
MW-5 (Duplicate)	09/21/2020	**0.0123**	<0.0010	0.0205	0.0325	**463**	
MW-5	12/14/2020	**0.0631**	<0.0100	0.0533	0.0740	NA	Duplicate Sample Collected
MW-5 (Duplicate)	12/14/2020	**0.0647**	<0.0010	0.0547	0.0757	NA	
MW-5	03/29/2021	**0.00996**	<0.00100	0.0164	0.0163	461	Duplicate Sample Collected
MW-5 (Duplicate)	03/29/2021	**0.0174**	<0.00100	0.0237	0.0235	473	
MW-5	06/21/2021	0.00472	<0.00100	0.00813	0.00589	NA	Duplicate Sample Collected
MW-5 (Duplicate)	06/21/2021	0.00335	<0.00100	0.0063	0.00469	NA	
MW-5	09/27/2021	**0.049**	0.000313 J	0.00459	0.00274 J	**484**	Duplicate Sample Collected
MW-5 (Duplicate)	09/27/2021	**0.0247**	0.000295 J	0.0188	0.00996	**478**	
MW-5	12/20/2021	**0.00571**	<0.00100	0.00992	0.00590	NA	Duplicate Sample Collected
MW-5 (Duplicate)	12/20/2021	**0.00834**	<0.00100	0.0135	0.00808	NA	
MW-5	03/28/2022	**0.01610**	0.000317 J	0.0227	0.0136	**485**	Duplicate Sample Collected
MW-5 (Duplicate)	03/28/2022	**0.0166**	<0.00500	0.0222	0.0171	**493**	
MW-5	06/27/2022	**0.0167**	<0.00100	0.103	0.0819	NA	
MW-5 (Duplicate)	06/27/2022	**0.0120**	<0.00100	0.0823	0.0611	NA	
MW-6	6/2008	<0.002	<0.002	<0.002	<0.006		
MW-6	9/2008	<0.002	<0.002	<0.002	<0.006	**363**	
MW-6	12/2008	<0.002	<0.002	<0.002	<0.006	**325**	
MW-6	3/2009	<0.002	<0.002	<0.002	<0.006	**298**	
MW-6	5/2009	<0.002	<0.002	<0.002	<0.006	**308**	
MW-6	9/2009	<0.002	<0.002	<0.002	<0.006	**296**	
MW-6	12/2009	<0.002	<0.002	<0.002	<0.006	**393**	
MW-6	3/2010	<0.002	<0.002	<0.002	<0.006	**700**	
MW-6	6/2010	<0.001	<0.002	<0.002	<0.002	**402**	
MW-6	9/2010	<0.001	<0.002	<0.002	<0.004	**337**	
MW-6	12/2010	<0.001	<0.002	<0.002	<0.004	**359**	
MW-6	03/30/2011	<0.001	<0.002	<0.002	<0.002	**386**	
MW-6	06/22/2011	<0.001	<0.002	<0.002	<0.004	**376**	
MW-6	09/17/2011	<0.001	<0.002	<0.002	<0.004	**383**	
MW-6	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**372**	
MW-6	03/10/2012	<0.001	<0.002	<0.002	<0.004	**406**	
MW-6	06/05/2012	<0.001	<0.002	<0.002	<0.003	**381**	
MW-6	09/09/2012	<0.001	<0.002	<0.002	<0.003	**377**	
MW-6	12/04/2012	<0.001	<0.002	<0.002	<0.003	**358**	
MW-6	02/22/2013	<0.001	<0.002	<0.002	<0.003	**385**	
MW-6	06/02/2013	<0.001	<0.002	<0.002	<0.003	**372**	
MW-6	09/10/2013	<0.001	<0.002	<0.002	<0.003	**367**	
MW-6	12/03/2013	<0.001	<0.002	<0.002	<0.003	**373**	
MW-6	02/27/2014	<0.001	<0.002	<0.002	<0.003	**395**	
MW-6	06/03/2014	<0.001	<0.002	<0.002	<0.003	**390**	
MW-6	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-6	12/01/2014	<0.001	<0.001	<0.001	<0.003	**358**	
MW-6	02/25/2015	<0.001	<0.001	<0.001	<0.003	**389**	
MW-6	06/01/2015	<0.001	<0.001	<0.001	<0.003	**417**	
MW-6	08/31/2015	<0.001	<0.001	<0.001	<0.003	**400**	
MW-6	12/14/2015	<0.001	<0.001	<0.001	<0.003	**391**	
MW-6	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**385**	
MW-6	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**412**	
MW-6	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**392**	
MW-6	12/19/2016	<0.0010	<0.0010	<0.0010	0.0024	**405**	
MW-6	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**401**	
MW-6	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**386**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-6	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**370**	
MW-6	12/19/2017	0.000607 J	<0.0010	<0.0010	<0.0030	**347**	
MW-6	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**365**	
MW-6	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**381**	
MW-6	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**367**	
MW-6	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-6	03/19/2019	<0.0010	<0.0010	<0.0010	<0.0030	**346**	
MW-6	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-6	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**387**	
MW-6	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-6	06/15/2020	0.000119 J	<0.0010	<0.0010	<0.0030	NA	
MW-6	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**412**	
MW-6	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-6	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	384	
MW-6	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-6	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**388**	
MW-6	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-6	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**412**	
MW-6	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-7	6/2008	<0.002	<0.002	<0.002	<0.006		
MW-7	9/2008	<0.002	<0.002	<0.002	<0.006	**378**	
MW-7	12/2008	<0.002	<0.002	<0.002	<0.006	**348**	
MW-7	3/2009	<0.002	<0.002	<0.002	<0.006	**283**	
MW-7	5/2009	<0.002	<0.002	<0.002	<0.006	**298**	
MW-7	9/2009	<0.002	<0.002	<0.002	<0.006	**273**	
MW-7	12/2009	<0.002	<0.002	<0.002	<0.006	**328**	
MW-7	3/2010	<0.002	<0.002	<0.002	<0.006	**750**	
MW-7	6/2010	0.0005	<0.002	<0.002	<0.006	**385**	
MW-7	9/2010	0.00042	<0.002	<0.002	<0.004	**326**	
MW-7	12/2010	<0.002	<0.002	<0.002	<0.006	**345**	
MW-7	03/30/2011	<0.001	<0.002	<0.002	<0.002	**382**	
MW-7	06/22/2011	<0.001	<0.002	<0.002	<0.004	**390**	
MW-7	09/17/2011	<0.001	<0.002	<0.002	<0.004	**374**	
MW-7	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**376**	
MW-7	03/10/2012	<0.001	<0.002	<0.002	<0.004	**392**	
MW-7	06/05/2012	<0.001	<0.002	<0.002	<0.003	**381**	
MW-7	09/09/2012	<0.001	<0.002	<0.002	<0.003	**362**	
MW-7	12/04/2012	<0.001	<0.002	<0.002	<0.003	**334**	
MW-7	02/22/2013	0.00059	<0.002	<0.002	<0.003	**363**	
MW-7	06/02/2013	<0.001	<0.002	<0.002	<0.003	**361**	
MW-7	09/10/2013	<0.001	<0.002	<0.002	<0.003	**332**	
MW-7	12/03/2013	<0.001	<0.002	<0.002	<0.003	**350**	
MW-7	02/27/2014	<0.001	<0.002	<0.002	<0.003	**358**	
MW-7	06/03/2014	<0.001	<0.002	<0.002	<0.003	**359**	
MW-7	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-7	12/01/2014	<0.001	<0.001	<0.001	<0.003	**332**	
MW-7	02/25/2015	<0.001	<0.001	<0.001	<0.003	**393**	
MW-7	06/01/2015	<0.001	<0.001	<0.001	<0.003	**371**	
MW-7	08/31/2015	<0.001	<0.001	<0.001	<0.003	**359**	
MW-7	12/14/2015	<0.001	<0.001	<0.001	<0.003	**338**	
MW-7	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**355**	
MW-7	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**379**	
MW-7	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**365**	
MW-7	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**358**	
MW-7	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**368**	
MW-7	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**342**	
MW-7	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**368**	
MW-7	12/19/2017	0.000562 J	<0.0010	<0.0010	<0.0030	**342**	
MW-7	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**346**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-7	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**349**	
MW-7	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**366**	
MW-7	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-7	03/19/2019	<0.0010	<0.0010	<0.0010	<0.0030	**355**	
MW-7	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-7	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**410**	
MW-7	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-7	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-7	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**475**	
MW-7	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-7	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	371	
MW-7	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-7	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**389**	
MW-7	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-7	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	10.7	
MW-7	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-8	6/2008	**0.0384**	0.00049	0.0255	0.0016		
MW-8	9/2008	**0.0301**	<0.002	0.0161	0.002	**512**	
MW-8	12/2008	0.00233	<0.002	0.011	<0.006	**393**	
MW-8	3/2009	**0.0218**	<0.002	0.0066	<0.006	**472**	
MW-8	5/2009	0.0098	<0.002	0.0049	<0.006	**450**	
MW-8	9/2009	<0.002	<0.002	<0.002	<0.006	**477**	
MW-8	12/2009	<0.002	<0.002	<0.002	<0.006	**472**	
MW-8	3/2010	<0.002	<0.002	<0.002	<0.006	**800**	
MW-8	6/2010	<0.001	<0.002	<0.002	<0.002	**553**	
MW-8	9/2010	<0.001	<0.002	<0.002	<0.004	**486**	
MW-8	12/2010	<0.001	<0.002	<0.002	<0.004	**533**	
MW-8	03/30/2011	<0.001	<0.002	<0.002	<0.002	**529**	
MW-8	06/22/2011	<0.001	<0.002	<0.002	<0.004	**524**	
MW-8	09/17/2011	<0.001	<0.002	<0.002	<0.004	**507**	
MW-8	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**521**	
MW-8	03/10/2012	<0.001	<0.002	<0.002	<0.004	**528**	
MW-8	06/05/2012	<0.001	<0.002	<0.002	<0.003	**527**	
MW-8	09/09/2012	<0.001	<0.002	<0.002	<0.003	**509**	
MW-8	12/04/2012	<0.001	<0.002	<0.002	<0.003	**500**	
MW-8	02/22/2013	0.00048	<0.002	<0.002	<0.003	**530**	
MW-8	06/02/2013	<0.001	<0.002	<0.002	<0.003	**524**	
MW-8	09/10/2013	<0.001	<0.002	<0.002	<0.003	**489**	
MW-8	12/03/2013	<0.001	<0.002	<0.002	<0.003	**508**	
MW-8	02/27/2014	<0.001	<0.002	<0.002	<0.003	**521**	
MW-8	06/03/2014	<0.001	<0.002	<0.002	<0.003	**521**	
MW-8	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-8	12/01/2014	<0.001	<0.001	<0.001	<0.003	**498**	
MW-8	02/25/2015	<0.001	<0.001	<0.001	<0.003	**523**	
MW-8	06/01/2015	<0.001	<0.001	<0.001	<0.003	**539**	
MW-8	08/31/2015	<0.001	<0.001	<0.001	<0.003	**517**	
MW-8	12/14/2015	<0.001	<0.001	<0.001	<0.003	**520**	
MW-8	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**494**	
MW-8	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**492**	
MW-8	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**508**	
MW-8	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**519**	
MW-8	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**517**	
MW-8	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**514**	
MW-8	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**499**	
MW-8	12/19/2017	0.000433 J	<0.0010	<0.0010	<0.0030	**540**	
MW-8	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**493**	
MW-8	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**562**	
MW-8	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**568**	
MW-8	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-8	03/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	**485**	
MW-8	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-8	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**637**	
MW-8	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-8	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-8	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**1090**	
MW-8	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-8	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	843	
MW-8	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-8	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**1220**	
MW-8	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-8	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**1020**	
MW-8	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-9	6/2010	LNAPL	LNAPL	LNAPL	LNAPL	**532**	
MW-9	9/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	03/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	06/22/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	09/17/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/08/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	03/10/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	06/05/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	09/09/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/04/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	02/22/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	06/02/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	09/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	12/03/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	02/27/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	06/03/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-9	12/01/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	02/25/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-9	06/01/2015	**3.9**	**5.6**	**1.8**	**5.2**	**408**	
MW-9	08/31/2015	**3.5**	**3.1**	0.73	**1.7**	**403**	
MW-9	12/14/2015	**4.6**	**4.6**	**0.77**	**1.8**	**389**	
MW-9	03/21/2016	**3.5**	**4.1**	**1.1**	**2.9**	**418**	
MW-9	06/20/2016	**4.4**	**5.4**	**1.1**	**3.2**	**417**	
MW-9	09/26/2016	**0.22**	0.044	0.094	0.19	**431**	
MW-9	12/19/2016	**0.32**	0.0015	0.051	0.071	**405**	
MW-9	03/06/2017	**0.92**	0.022	0.15	0.15	**378**	
MW-9	06/19/2017	**2.2**	0.29	0.47	0.64	**360**	
MW-9	09/25/2017	**5.03**	0.26	**0.842**	**0.991**	**310**	
MW-9	12/19/2017	**4.01**	0.151	**0.871**	**0.752**	**373**	
MW-9	03/13/2018	**1.79**	<0.050	0.0738	0.249	**370**	
MW-9	06/25/2018	**2.59**	0.0228 J	0.146	0.260	**327**	
MW-9	09/19/2018	**1.56**	0.00981 J	0.157	0.195	**358**	
MW-9	12/11/2018	**1.73**	0.0123	0.108	0.198	NA	
MW-9	03/19/2019	**2.15**	0.0272	0.184	0.235	**347**	
MW-9	06/04/2019	**0.42**	0.0043 J	0.00726 J	0.0301	NA	
MW-9	09/23/2019	**0.211**	0.00206	0.00863	0.0214	**351**	
MW-9	12/11/2019	**0.0453**	0.00306	0.00481	0.0187	NA	
MW-9	06/15/2020	**1.39**	0.340	0.0830	0.211	NA	
MW-9	09/21/2020	**1.54**	0.406	0.0840	0.280	**370**	
MW-9	12/14/2020	**1.31**	0.284	0.0527	0.201	NA	
MW-9	03/29/2021	**0.599**	0.161	0.0285	0.116	394	
MW-9	06/21/2021	**1.19**	0.352	0.0748	0.250	NA	
MW-9	09/27/2021	**0.517**	0.0233	0.0128	0.086	**402**	
MW-9	12/20/2021	**0.425**	0.0704	0.0351	0.0904	NA	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-9	03/28/2022	**0.386**	0.0399	0.0455	0.0927	**418**	
MW-9	06/27/2022	**0.696**	0.0200	0.0595	0.118	NA	
MW-10	6-2010	LNAPL	LNAPL	LNAPL	LNAPL	**656**	
MW-10	9-2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	12-2010	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	03/30/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	06/22/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	09/17/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	12/08/2011	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	03/10/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	06/05/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	09/09/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	12/04/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	02/22/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	06/02/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	09/10/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	12/03/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	02/27/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	06/03/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-10	12/01/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	02/25/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-10	06/01/2015	**0.75**	**1.7**	**1.6**	**3**	**563**	
MW-10	08/31/2015	**0.4**	0.046	0.6	**0.59**	**529**	
MW-10	12/14/2015	**1**	0.57	**0.98**	**2.6**	**521**	
MW-10	03/21/2016	<0.50 J	<0.50	0.51	**1.6**	**531**	
MW-10	06/20/2016	**0.93**	0.024	0.65	**2**	**520**	
MW-10	09/26/2016	**0.25**	0.0015	0.26	0.42	**531**	
MW-10	12/19/2016	**0.11**	0.0033	0.6	**1.5**	**510**	
MW-10	03/06/2017	**0.092**	0.0024	0.16	0.32	**525**	
MW-10	06/19/2017	**0.093**	<0.001	0.15	0.24	**492**	
MW-10	09/25/2017	**0.448**	<0.01	0.272	0.425	**496**	
MW-10	12/19/2017	**0.537**	0.00473 J	0.265	0.435	**547**	
MW-10	03/13/2018	**0.281**	<0.010	0.104	0.165	**530**	
MW-10	06/25/2018	**0.493**	0.00248 J	0.0490	0.0591	**464**	
MW-10	09/19/2018	**0.563**	0.00485 J	0.0470	0.0761	**486**	
MW-10	12/11/2018	**0.722**	0.0113	0.0566	0.107	NA	
MW-10	03/19/2019	**0.982**	0.0162	0.0784	0.172	**472**	
MW-10	06/04/2019	**0.889**	0.0213	0.0483	0.107	NA	
MW-10	09/23/2019	**1.28**	0.0623	0.0777	0.201	**489**	
MW-10	12/11/2019	**0.606**	<0.050	<0.050	<0.150	NA	
MW-10	06/15/2020	**0.525**	0.00278 J	0.0191	0.0382	NA	
MW-10	09/21/2020	**0.587**	0.00436 J	0.0455	0.109	**500**	
MW-10	12/14/2020	**0.35**	<0.00100	0.022	0.0758	NA	
MW-10	03/29/2021	**0.137**	0.000418 J	0.019	0.0435	487	
MW-10	06/21/2021	**0.22**	0.000641 J	0.0165	0.0331	NA	
MW-10	09/27/2021	**0.175**	0.000387 J	0.0173	0.023	**499**	
MW-10	12/20/2021	**0.0847**	0.000286 J	0.0155	0.0207	NA	
MW-10	03/28/2022	**0.115**	<0.00100	0.0161	0.0171	**506**	
MW-10	06/27/2022	**0.129**	<0.00100	0.00585	0.00966	NA	
MW-11	6-2010	<0.001	<0.002	<0.002	<0.004	**407**	
MW-11	9-2010	<0.001	<0.002	<0.002	<0.004	**365**	
MW-11	12-2010	<0.001	<0.002	<0.002	<0.004	**383**	
MW-11	03/30/2011	<0.001	<0.002	<0.002	<0.002	**406**	
MW-11	06/22/2011	<0.001	<0.002	<0.002	<0.004	**405**	
MW-11	09/17/2011	<0.001	<0.002	<0.002	<0.004	**390**	
MW-11	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**399**	
MW-11	03/10/2012	<0.001	<0.002	<0.002	<0.004	**403**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-11	06/05/2012	<0.001	<0.002	<0.002	<0.003	**417**	
MW-11	09/09/2012	<0.001	<0.002	<0.002	<0.003	**399**	
MW-11	12/04/2012	<0.001	<0.002	<0.002	<0.003	**382**	
MW-11	02/22/2013	0.0004	<0.002	<0.002	<0.003	**419**	
MW-11	06/02/2013	<0.001	<0.002	<0.002	<0.003	**424**	
MW-11	09/10/2013	<0.001	<0.002	<0.002	<0.003	**394**	
MW-11	12/03/2013	<0.001	<0.002	<0.002	<0.003	**416**	
MW-11	02/27/2014	<0.001	<0.002	<0.002	<0.003	**433**	
MW-11	06/03/2014	<0.001	<0.002	<0.002	<0.003	**434**	
MW-11	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-11	12/01/2014	<0.001	<0.001	<0.001	<0.003	**391**	
MW-11	02/25/2015	<0.001	<0.001	<0.001	<0.003	**414**	
MW-11	06/01/2015	<0.001	<0.001	<0.001	<0.003	**468**	
MW-11	08/31/2015	<0.001	<0.001	<0.001	<0.003	**429**	
MW-11	12/14/2015	<0.001	<0.001	<0.001	<0.003	**416**	
MW-11	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**434**	
MW-11	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**471**	
MW-11	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**444**	
MW-11	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**431**	
MW-11	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**444**	
MW-11	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**436**	
MW-11	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**440**	
MW-11	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**444**	
MW-11	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**452**	
MW-11	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**420**	
MW-11	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**433**	
MW-11	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-11	03/19/2019	<0.0010	<0.0010	<0.0010	<0.0030	**410**	
MW-11	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-11	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**445**	
MW-11	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-11	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-11	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**471**	
MW-11	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-11	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	451	
MW-11	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-11	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**493**	
MW-11	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-11	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**477**	
MW-11	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-12	6-2010	<0.001	<0.002	<0.002	<0.004	**514**	
MW-12	9-2010	<0.001	<0.002	<0.002	<0.004	**464**	
MW-12	12-2010	<0.001	<0.002	<0.002	<0.004	**501**	
MW-12	03/30/2011	<0.001	<0.002	<0.002	<0.002	**498**	
MW-12	06/22/2011	<0.001	<0.002	<0.002	<0.004	**497**	
MW-12	09/17/2011	<0.001	<0.002	<0.002	<0.004	**493**	
MW-12	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**493**	
MW-12	03/10/2012	<0.001	<0.002	<0.002	<0.004	**513**	
MW-12	06/05/2012	<0.001	<0.002	<0.002	<0.003	**507**	
MW-12	09/09/2012	<0.001	<0.002	<0.002	<0.003	**487**	
MW-12	12/04/2012	<0.001	<0.002	<0.002	<0.003	**469**	
MW-12	02/22/2013	0.00041	<0.002	<0.002	<0.003	**484**	
MW-12	06/02/2013	<0.001	<0.002	<0.002	<0.003	**461**	
MW-12	09/10/2013	<0.001	<0.002	<0.002	<0.003	**428**	
MW-12	12/03/2013	<0.001	<0.002	<0.002	0.0031	**412**	
MW-12	02/27/2014	<0.001	<0.002	<0.002	0.0024 J	**414**	
MW-12	06/03/2014	<0.001	<0.002	<0.002	<0.003	**377**	
MW-12	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-12	12/01/2014	<0.001	<0.001	<0.001	<0.003	**300**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-12	02/25/2015	<0.001	<0.001	<0.001	<0.003	**322**	
MW-12	06/01/2015	<0.001	<0.001	<0.001	<0.003	**351**	
MW-12	08/31/2015	<0.001	<0.001	<0.001	<0.003	**310**	
MW-12	12/14/2015	<0.001	<0.001	<0.001	<0.003	**295**	
MW-12	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**301**	
MW-12	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**309**	
MW-12	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**316**	
MW-12	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**309**	
MW-12	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**310**	
MW-12	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**314**	
MW-12	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**323**	
MW-12	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**387**	
MW-12	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**354**	
MW-12	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**338**	
MW-12	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**358**	
MW-12	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-12	03/19/2019	<0.0010	<0.0010	<0.0010	<0.0030	**378**	
MW-12	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-12	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**401**	
MW-12	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-12	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-12	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**413**	
MW-12	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-12	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	412	
MW-12	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-12	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**428**	
MW-12	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-12	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**496**	
MW-12	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-13	03/30/2011	<0.001	<0.002	<0.002	<0.002	**326**	
MW-13	06/22/2011	<0.001	<0.002	<0.002	<0.004	**340**	
MW-13	09/17/2011	<0.001	<0.002	<0.002	<0.004	**317**	
MW-13	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**328**	
MW-13	03/10/2012	<0.001	<0.002	<0.002	<0.004	**331**	
MW-13	06/05/2012	<0.001	<0.002	<0.002	<0.003	**335**	
MW-13	09/09/2012	<0.001	<0.002	<0.002	<0.003	**321**	
MW-13	12/04/2012	<0.001	<0.002	<0.002	<0.003	**317**	
MW-13	02/22/2013	0.00073	<0.002	<0.002	<0.003	**337**	
MW-13	06/02/2013	<0.001	<0.002	<0.002	<0.003	**333**	
MW-13	09/10/2013	<0.001	<0.002	<0.002	<0.003	**311**	
MW-13	12/03/2013	<0.001	<0.002	<0.002	<0.003	**330**	
MW-13	02/27/2014	<0.001	<0.002	<0.002	<0.003	**344**	
MW-13	06/03/2014	<0.001	<0.002	<0.002	<0.003	**354**	MS/MSD Sample Collected
MW-13	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-13	12/01/2014	<0.001	<0.001	<0.001	<0.003	**310**	
MW-13	02/25/2015	<0.001	<0.001	<0.001	<0.003	**326**	
MW-13	06/01/2015	<0.001	<0.001	<0.001	<0.003	**362**	
MW-13	08/31/2015	<0.001	<0.001	<0.001	<0.003	**332**	
MW-13	12/14/2015	<0.001	<0.001	<0.001	<0.003	**315**	
MW-13	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**330**	
MW-13	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**328**	
MW-13	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**339**	
MW-13	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**333**	
MW-13	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**340**	
MW-13	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**313**	
MW-13	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**327**	
MW-13	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**318**	
MW-13	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**339**	
MW-13	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**313**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-13	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**338**	
MW-13	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-13	03/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	**330**	
MW-13	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-13	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**346**	
MW-13	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-13	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-13	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**385**	
MW-13	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-13	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	389	
MW-13	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-13	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**409**	
MW-13	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-13	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**445**	
MW-13	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-14	03/30/2011	<0.001	<0.002	<0.002	<0.002	**520**	
MW-14	06/22/2011	<0.001	<0.002	<0.002	<0.004	**494**	
MW-14	09/17/2011	<0.001	<0.002	<0.002	<0.004	**478**	
MW-14	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**521**	
MW-14	03/10/2012	<0.001	<0.002	<0.002	<0.004	**528**	
MW-14	06/05/2012	<0.001	<0.002	<0.002	<0.003	**513**	
MW-14	09/09/2012	<0.001	<0.002	<0.002	<0.003	**536**	
MW-14	12/04/2012	<0.001	<0.002	<0.002	<0.003	**544**	
MW-14	02/22/2013	0.00034	<0.002	<0.002	<0.003	**553**	
MW-14	06/02/2013	<0.001	<0.002	<0.002	<0.003	**538**	
MW-14	09/10/2013	<0.001	<0.002	<0.002	<0.003	**486**	
MW-14	12/03/2013	<0.001	<0.002	<0.002	<0.003	**519**	
MW-14	02/27/2014	<0.001	<0.002	<0.002	<0.003	**516**	
MW-14	06/03/2014	<0.001	<0.002	<0.002	<0.003	**547**	
MW-14	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-14	12/01/2014	<0.001	<0.001	<0.001	<0.003	**482**	
MW-14	02/25/2015	<0.001	<0.001	<0.001	<0.003	**477**	
MW-14	06/01/2015	<0.001	<0.001	<0.001	<0.003	**502**	
MW-14	08/31/2015	<0.001	<0.001	<0.001	<0.003	**472**	
MW-14	12/14/2015	<0.001	<0.001	<0.001	<0.003	**430**	
MW-14	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**445**	
MW-14	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**451**	
MW-14	09/26/2016	<0.0010	0.0011	<0.0010	<0.0030	**455**	
MW-14	12/19/2016	<0.0010	0.0011	<0.0010	<0.0010	**432**	
MW-14	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**422**	
MW-14	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**398**	
MW-14	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**397**	
MW-14	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**431**	
MW-14	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**398**	
MW-14	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**369**	
MW-14	09/18/2018	<0.0010	<0.0010	<0.0010	<0.0030	**389**	
MW-14	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-14	03/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	**370**	
MW-14	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-14	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**375**	
MW-14	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-14	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-14	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**399**	
MW-14	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-14	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	408	
MW-14	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-14	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**420**	
MW-14	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-14	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**446**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-14	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-15	03/30/2011	<0.001	<0.002	<0.002	<0.002	**303**	
MW-15	06/22/2011	<0.001	<0.002	<0.002	<0.004	**297**	
MW-15	09/17/2011	<0.001	<0.002	<0.002	<0.004	**294**	
MW-15	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**288**	
MW-15	03/10/2012	<0.001	<0.002	<0.002	<0.004	**308**	
MW-15	06/05/2012	<0.001	<0.002	<0.002	<0.003	**276**	
MW-15	09/09/2012	<0.001	<0.002	<0.002	<0.003	**318**	
MW-15	12/04/2012	<0.001	<0.002	<0.002	<0.003	**313**	
MW-15	02/22/2013	0.00034	<0.002	<0.002	<0.003	**333**	
MW-15	06/02/2013	<0.001	<0.002	<0.002	<0.003	**324**	
MW-15	09/10/2013	<0.001	<0.002	<0.002	<0.003	**331**	
MW-15	12/03/2013	<0.001	<0.002	<0.002	<0.003	**365**	
MW-15	02/27/2014	<0.001	<0.002	<0.002	<0.003	**378**	
MW-15	06/03/2014	<0.001	<0.002	<0.002	<0.003	**374**	
MW-15	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-15	12/01/2014	<0.001	<0.001	<0.001	<0.003	**334**	
MW-15	02/25/2015	<0.001	<0.001	<0.001	<0.003	**362**	
MW-15	06/01/2015	<0.001	<0.001	<0.001	<0.003	**407**	
MW-15	08/31/2015	<0.001	<0.001	<0.001	<0.003	**405**	
MW-15	12/14/2015	<0.001	<0.001	<0.001	<0.003	**390**	
MW-15	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**409**	
MW-15	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**405**	
MW-15	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**430**	
MW-15	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**418**	
MW-15	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**438**	
MW-15	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**401**	
MW-15	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**422**	
MW-15	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**398**	
MW-15	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**424**	
MW-15	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**391**	
MW-15	09/18/2018	<0.0010	<0.0010	<0.0010	<0.0030	**417**	
MW-15	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-15	03/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	**427**	
MW-15	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-15	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**417**	
MW-15	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-15	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-15	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**451**	
MW-15	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-15	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	454	
MW-15	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-15	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**470**	
MW-15	12/20/2021	<0.00100	<0.00100	<0.00100	0.000187 J	NA	
MW-15	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**472**	
MW-15	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-16	03/30/2011	<0.001	<0.002	<0.002	<0.002	**295**	
MW-16	06/22/2011	<0.001	<0.002	<0.002	<0.004	**292**	
MW-16	09/17/2011	<0.001	<0.002	<0.002	<0.004	**295**	
MW-16	12/08/2011	<0.0005	<0.001	<0.001	<0.001	**313**	
MW-16	03/10/2012	<0.001	<0.002	<0.002	<0.004	**322**	
MW-16	06/05/2012	<0.001	<0.002	<0.002	<0.003	**334**	
MW-16	09/09/2012	<0.001	<0.002	<0.002	<0.003	**334**	
MW-16	12/04/2012	<0.001	<0.002	<0.002	<0.003	**339**	
MW-16	02/22/2013	<0.001	<0.002	<0.002	<0.003	**358**	
MW-16	06/02/2013	<0.001	<0.002	<0.002	<0.003	**364**	
MW-16	09/10/2013	<0.001	<0.002	<0.002	<0.003	**359**	
MW-16	12/03/2013	<0.001	<0.002	<0.002	<0.003	**394**	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
MW-16	02/27/2014	<0.001	<0.002	<0.002	<0.003	**424**	
MW-16	06/03/2014	<0.001	<0.002	<0.002	<0.003	**333**	
MW-16	Third Quarter 2014 Sampling Suspended Due to Site Inaccessibility						
MW-16	12/01/2014	<0.001	<0.001	<0.001	<0.003	**418**	
MW-16	02/25/2015	<0.001	<0.001	<0.001	<0.003	**435**	
MW-16	06/01/2015	<0.001	<0.001	<0.001	<0.003	**458**	
MW-16	08/31/2015	<0.001	<0.001	<0.001	<0.003	**425**	
MW-16	12/14/2015	<0.001	<0.001	<0.001	<0.003	**469**	
MW-16	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	**437**	
MW-16	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	**423**	
MW-16	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	**463**	
MW-16	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	**445**	
MW-16	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	**433**	
MW-16	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	**435**	
MW-16	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	**437**	
MW-16	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	**488**	
MW-16	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	**454**	
MW-16	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	**437**	
MW-16	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	**471**	
MW-16	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-16	03/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	**481**	
MW-16	06/03/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-16	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	**489**	
MW-16	12/10/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-16	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
MW-16	09/21/2020	<0.00100	<0.00100	<0.00100	<0.00300	**551**	
MW-16	12/14/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-16	03/29/2021	<0.00100	<0.00100	<0.00100	<0.00300	583	
MW-16	06/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-16	09/27/2021	<0.00100	<0.00100	<0.00100	<0.00300	**574**	
MW-16	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
MW-16	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	**630**	
MW-16	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
Trip Blank	06/03/2014	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	12/01/2014	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	02/25/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	06/01/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	08/31/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	12/14/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	03/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	06/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	09/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0010	NA	
Trip Blank	03/06/2017	<0.0010	<0.0010	<0.0010	<0.0010	NA	
Trip Blank	06/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	NA	
Trip Blank	09/25/2017	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/19/2017	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	03/13/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	06/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	09/19/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/11/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	03/19/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	06/04/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	09/23/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/11/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	06/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	09/21/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER
RR-EXTENSION PIPELINE RELEASE
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Chlorides (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.005**	**1.00**	**0.70**	**0.62**	**250**	
Trip Blank	12/14/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	03/29/2021	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	06/21/2021	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	09/27/2021	<0.00100	0.000279 J	<0.00100	0.000231 J	NA	
Trip Blank	12/20/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
Trip Blank	03/28/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	
Trip Blank	06/27/2022	<0.00100	<0.00100	<0.00100	<0.00300	NA	

Notes:
Bold red values indicate an exceedance of the NMWQCC groundwater standards for the Site.
NMWQCC = New Mexico Water Quality Control Commission
LNAPL = Light Non-Aqueous Phase Liquid
B = A qualifier indicating an analyte was detected in both the sample and the associated Method Blank (MB)
J = A qualifier indicating the identification of the analyte is acceptable; the reported value is an estimate.
NS = Not Sampled
NA = Not Analyzed
mg/L = milligrams per liter

Appendix B

Laboratory Analytical Report

Pace Analytical Job #: L1510029

Pace Analytical®

ANALYTICAL REPORT

July 05, 2022

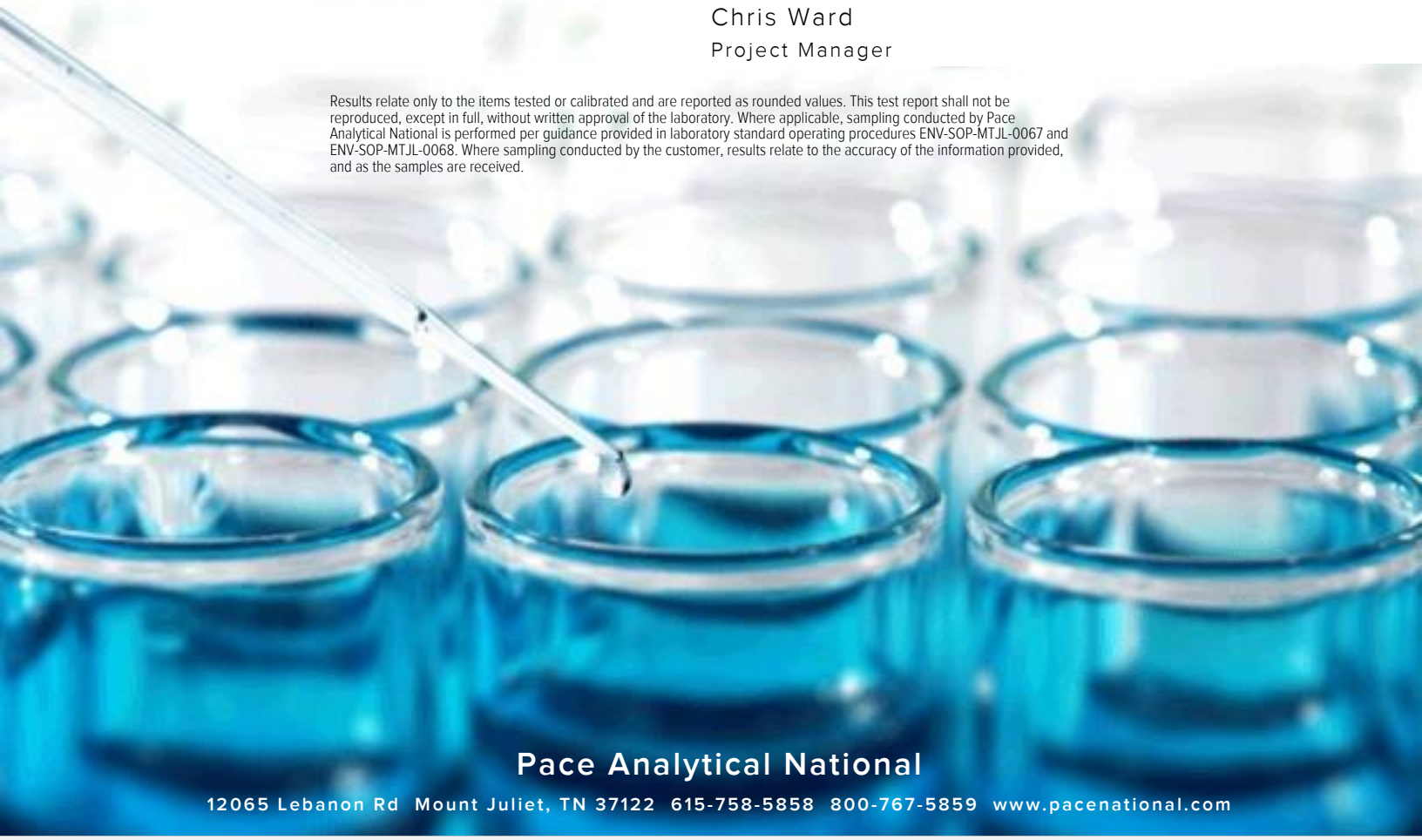
DCP Midstream - Tasman

Sample Delivery Group:	L1510029
Samples Received:	06/29/2022
Project Number:	
Description:	RR - Extension Pipeline Release

Report To: Kyle Norman
2620 W. Marland Blvd
Hobbs, NM 88240

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-1 L1510029-01 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 08:45 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/02/22 21:20	07/02/22 21:20	JCP	Mt. Juliet, TN

MW-2 L1510029-02 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 10:00 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/02/22 21:42	07/02/22 21:42	JCP	Mt. Juliet, TN

MW-3 L1510029-03 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 14:05 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	10	07/03/22 02:53	07/03/22 02:53	JCP	Mt. Juliet, TN

MW-4 L1510029-04 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 12:05 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/02/22 22:04	07/02/22 22:04	JCP	Mt. Juliet, TN

MW-5 L1510029-05 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 13:45 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/02/22 22:26	07/02/22 22:26	JCP	Mt. Juliet, TN

MW-6 L1510029-06 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 13:25 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/02/22 22:49	07/02/22 22:49	JCP	Mt. Juliet, TN

MW-7 L1510029-07 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 14:25 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/02/22 23:11	07/02/22 23:11	JCP	Mt. Juliet, TN

MW-8 L1510029-08 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 09:15 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/02/22 23:33	07/02/22 23:33	JCP	Mt. Juliet, TN

MW-9 L1510029-09 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 10:25 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	10	07/03/22 03:15	07/03/22 03:15	JCP	Mt. Juliet, TN

MW-10 L1510029-10 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 11:45 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/02/22 23:55	07/02/22 23:55	JCP	Mt. Juliet, TN

MW-11 L1510029-11 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 13:05 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/03/22 00:18	07/03/22 00:18	JCP	Mt. Juliet, TN

MW-12 L1510029-12 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 12:45 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/03/22 00:40	07/03/22 00:40	JCP	Mt. Juliet, TN

MW-13 L1510029-13 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 09:40 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/03/22 01:02	07/03/22 01:02	JCP	Mt. Juliet, TN

MW-14 L1510029-14 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 10:45 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/03/22 01:24	07/03/22 01:24	JCP	Mt. Juliet, TN

MW-15 L1510029-15 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 11:05 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/03/22 01:46	07/03/22 01:46	JCP	Mt. Juliet, TN

MW-16 L1510029-16 GW

Collected by: Becky Griffin | Collected date/time: 06/27/22 11:25 | Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/03/22 02:08	07/03/22 02:08	JCP	Mt. Juliet, TN

DUPLICATE L1510029-17 GW

Collected by: Becky Griffin
Collected date/time: 06/27/22 00:00
Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	5	07/03/22 03:37	07/03/22 03:37	JCP	Mt. Juliet, TN

TRIP BLANK L1510029-18 GW

Collected by: Becky Griffin
Collected date/time: 06/27/22 00:00
Received date/time: 06/29/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1889246	1	07/02/22 20:36	07/02/22 20:36	JCP	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Chris Ward

Chris Ward
Project Manager

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00104		0.0000941	0.00100	1	07/02/2022 21:20	WG1889246
Toluene	0.000311	J	0.000278	0.00100	1	07/02/2022 21:20	WG1889246
Ethylbenzene	0.00130		0.000137	0.00100	1	07/02/2022 21:20	WG1889246
Total Xylenes	0.00120	J	0.000174	0.00300	1	07/02/2022 21:20	WG1889246
(S) Toluene-d8	*99.3*			*80.0-120*		*07/02/2022 21:20*	WG1889246
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/02/2022 21:20*	WG1889246
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/02/2022 21:20*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0170		0.0000941	0.00100	1	07/02/2022 21:42	WG1889246
Toluene	U		0.000278	0.00100	1	07/02/2022 21:42	WG1889246
Ethylbenzene	0.000947	J	0.000137	0.00100	1	07/02/2022 21:42	WG1889246
Total Xylenes	0.00199	J	0.000174	0.00300	1	07/02/2022 21:42	WG1889246
(S) Toluene-d8	*99.6*			*80.0-120*		*07/02/2022 21:42*	WG1889246
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/02/2022 21:42*	WG1889246
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/02/2022 21:42*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	1.29		0.000941	0.0100	10	07/03/2022 02:53	WG1889246
Toluene	U		0.00278	0.0100	10	07/03/2022 02:53	WG1889246
Ethylbenzene	0.313		0.00137	0.0100	10	07/03/2022 02:53	WG1889246
Total Xylenes	0.723		0.00174	0.0300	10	07/03/2022 02:53	WG1889246
(S) Toluene-d8	*98.3*			*80.0-120*		*07/03/2022 02:53*	WG1889246
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/03/2022 02:53*	WG1889246
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*07/03/2022 02:53*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0697		0.0000941	0.00100	1	07/02/2022 22:04	WG1889246
Toluene	U		0.000278	0.00100	1	07/02/2022 22:04	WG1889246
Ethylbenzene	0.0689		0.000137	0.00100	1	07/02/2022 22:04	WG1889246
Total Xylenes	0.0655		0.000174	0.00300	1	07/02/2022 22:04	WG1889246
(S) Toluene-d8	*103*			*80.0-120*		*07/02/2022 22:04*	WG1889246
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*07/02/2022 22:04*	WG1889246
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/02/2022 22:04*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0167		0.0000941	0.00100	1	07/02/2022 22:26	WG1889246
Toluene	U		0.000278	0.00100	1	07/02/2022 22:26	WG1889246
Ethylbenzene	0.103		0.000137	0.00100	1	07/02/2022 22:26	WG1889246
Total Xylenes	0.0819		0.000174	0.00300	1	07/02/2022 22:26	WG1889246
(S) Toluene-d8	*133*	J1		*80.0-120*		*07/02/2022 22:26*	WG1889246
(S) 4-Bromofluorobenzene	*135*	J1		*77.0-126*		*07/02/2022 22:26*	WG1889246
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*07/02/2022 22:26*	WG1889246

Sample Narrative:

L1510029-05 WG1889246: Surrogate failure due to matrix interference.

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	07/02/2022 22:49	WG1889246
Toluene	U		0.000278	0.00100	1	07/02/2022 22:49	WG1889246
Ethylbenzene	U		0.000137	0.00100	1	07/02/2022 22:49	WG1889246
Total Xylenes	U		0.000174	0.00300	1	07/02/2022 22:49	WG1889246
(S) Toluene-d8	*102*			*80.0-120*		*07/02/2022 22:49*	WG1889246
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*07/02/2022 22:49*	WG1889246
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/02/2022 22:49*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	07/02/2022 23:11	WG1889246
Toluene	U		0.000278	0.00100	1	07/02/2022 23:11	WG1889246
Ethylbenzene	U		0.000137	0.00100	1	07/02/2022 23:11	WG1889246
Total Xylenes	U		0.000174	0.00300	1	07/02/2022 23:11	WG1889246
(S) Toluene-d8	*99.2*			*80.0-120*		*07/02/2022 23:11*	WG1889246
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/02/2022 23:11*	WG1889246
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/02/2022 23:11*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	07/02/2022 23:33	WG1889246
Toluene	U		0.000278	0.00100	1	07/02/2022 23:33	WG1889246
Ethylbenzene	U		0.000137	0.00100	1	07/02/2022 23:33	WG1889246
Total Xylenes	U		0.000174	0.00300	1	07/02/2022 23:33	WG1889246
(S) Toluene-d8	*103*			*80.0-120*		*07/02/2022 23:33*	WG1889246
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*07/02/2022 23:33*	WG1889246
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/02/2022 23:33*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.696		0.000941	0.0100	10	07/03/2022 03:15	WG1889246
Toluene	0.0200		0.00278	0.0100	10	07/03/2022 03:15	WG1889246
Ethylbenzene	0.0595		0.00137	0.0100	10	07/03/2022 03:15	WG1889246
Total Xylenes	0.118		0.00174	0.0300	10	07/03/2022 03:15	WG1889246
(S) Toluene-d8	*100*			*80.0-120*		*07/03/2022 03:15*	WG1889246
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*07/03/2022 03:15*	WG1889246
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/03/2022 03:15*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.129		0.0000941	0.00100	1	07/02/2022 23:55	WG1889246
Toluene	U		0.000278	0.00100	1	07/02/2022 23:55	WG1889246
Ethylbenzene	0.00585		0.000137	0.00100	1	07/02/2022 23:55	WG1889246
Total Xylenes	0.00966		0.000174	0.00300	1	07/02/2022 23:55	WG1889246
(S) Toluene-d8	*103*			*80.0-120*		*07/02/2022 23:55*	WG1889246
(S) 4-Bromofluorobenzene	*111*			*77.0-126*		*07/02/2022 23:55*	WG1889246
(S) 1,2-Dichloroethane-d4	*101*			*70.0-130*		*07/02/2022 23:55*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	07/03/2022 00:18	WG1889246
Toluene	U		0.000278	0.00100	1	07/03/2022 00:18	WG1889246
Ethylbenzene	U		0.000137	0.00100	1	07/03/2022 00:18	WG1889246
Total Xylenes	U		0.000174	0.00300	1	07/03/2022 00:18	WG1889246
(S) Toluene-d8	*100*			*80.0-120*		*07/03/2022 00:18*	WG1889246
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/03/2022 00:18*	WG1889246
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/03/2022 00:18*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	07/03/2022 00:40	WG1889246
Toluene	U		0.000278	0.00100	1	07/03/2022 00:40	WG1889246
Ethylbenzene	U		0.000137	0.00100	1	07/03/2022 00:40	WG1889246
Total Xylenes	U		0.000174	0.00300	1	07/03/2022 00:40	WG1889246
(S) Toluene-d8	*103*			*80.0-120*		*07/03/2022 00:40*	WG1889246
(S) 4-Bromofluorobenzene	*105*			*77.0-126*		*07/03/2022 00:40*	WG1889246
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*		*07/03/2022 00:40*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	07/03/2022 01:02	WG1889246
Toluene	U		0.000278	0.00100	1	07/03/2022 01:02	WG1889246
Ethylbenzene	U		0.000137	0.00100	1	07/03/2022 01:02	WG1889246
Total Xylenes	U		0.000174	0.00300	1	07/03/2022 01:02	WG1889246
(S) Toluene-d8	*100*			*80.0-120*		*07/03/2022 01:02*	WG1889246
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*07/03/2022 01:02*	WG1889246
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*		*07/03/2022 01:02*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	07/03/2022 01:24	WG1889246
Toluene	U		0.000278	0.00100	1	07/03/2022 01:24	WG1889246
Ethylbenzene	U		0.000137	0.00100	1	07/03/2022 01:24	WG1889246
Total Xylenes	U		0.000174	0.00300	1	07/03/2022 01:24	WG1889246
(S) Toluene-d8	*100*			*80.0-120*		*07/03/2022 01:24*	WG1889246
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*07/03/2022 01:24*	WG1889246
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*07/03/2022 01:24*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	07/03/2022 01:46	WG1889246
Toluene	U		0.000278	0.00100	1	07/03/2022 01:46	WG1889246
Ethylbenzene	U		0.000137	0.00100	1	07/03/2022 01:46	WG1889246
Total Xylenes	U		0.000174	0.00300	1	07/03/2022 01:46	WG1889246
(S) Toluene-d8	*99.7*			*80.0-120*		*07/03/2022 01:46*	WG1889246
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/03/2022 01:46*	WG1889246
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*		*07/03/2022 01:46*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	07/03/2022 02:08	WG1889246
Toluene	U		0.000278	0.00100	1	07/03/2022 02:08	WG1889246
Ethylbenzene	U		0.000137	0.00100	1	07/03/2022 02:08	WG1889246
Total Xylenes	U		0.000174	0.00300	1	07/03/2022 02:08	WG1889246
(S) Toluene-d8	*100*			*80.0-120*		*07/03/2022 02:08*	WG1889246
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*07/03/2022 02:08*	WG1889246
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*		*07/03/2022 02:08*	WG1889246

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0120		0.000471	0.00500	5	07/03/2022 03:37	WG1889246
Toluene	U		0.00139	0.00500	5	07/03/2022 03:37	WG1889246
Ethylbenzene	0.0823		0.000685	0.00500	5	07/03/2022 03:37	WG1889246
Total Xylenes	0.0611		0.000870	0.0150	5	07/03/2022 03:37	WG1889246
(S) Toluene-d8	*104*			*80.0-120*		*07/03/2022 03:37*	WG1889246
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*07/03/2022 03:37*	WG1889246
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*07/03/2022 03:37*	WG1889246

TRIP BLANK
Collected date/time: 06/27/22 00:00
L1510029

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	07/02/2022 20:36	WG1889246
Toluene	U		0.000278	0.00100	1	07/02/2022 20:36	WG1889246
Ethylbenzene	U		0.000137	0.00100	1	07/02/2022 20:36	WG1889246
Total Xylenes	U		0.000174	0.00300	1	07/02/2022 20:36	WG1889246
(S) Toluene-d8	*99.2*			*80.0-120*		*07/02/2022 20:36*	WG1889246
(S) 4-Bromofluorobenzene	*102*			*77.0-126*		*07/02/2022 20:36*	WG1889246
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*		*07/02/2022 20:36*	WG1889246

Method Blank (MB)

(MB) R3810501-3 07/02/22 20:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*101*			*80.0-120*
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*103*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3810501-1 07/02/22 18:46 • (LCSD) R3810501-2 07/02/22 19:08

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00577	0.00553	115	111	70.0-123			4.25	20
Toluene	0.00500	0.00518	0.00485	104	97.0	79.0-120			6.58	20
Ethylbenzene	0.00500	0.00510	0.00488	102	97.6	79.0-123			4.41	20
Xylenes, Total	0.0150	0.0154	0.0144	103	96.0	79.0-123			6.71	20
(S) Toluene-d8				*97.8*	*98.2*	*80.0-120*				
(S) 4-Bromofluorobenzene				*102*	*102*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*107*	*107*	*70.0-130*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
DCP Midstream - Tasman

2620 W. Marland Blvd
Hobbs, NM 88240

Billing Information:
Steve Weathers
370 17th St, Ste 2500
Denver, CO 80202

Pres Chk

Report to: **Kyle Norman**

Email To: **knorman@tasman-geo.com;swweathers@dcpmidstream.com;jwat**

Project Description: **RR - Extension Pipeline Release**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **720-218-4003**

Client Project #

Lab Project # **DCPTASMAN-RR EXT**

Collected by (print): BECKY GRIFFIN

Site/Facility ID #

P.O. # **0000524223**

Collected by (signature): Becky Griffin

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEX 40mlAmb-HCl										
MW-1		GW		6-27-22	0845	3	X										-01
MW-2		GW			1000												-02
MW-3		GW			1405												-03
MW-4		GW			1205												-04
MW-5		GW			1345												-05
MW-6		GW			1325												-06
MW-7		GW			1425												-07
MW-8		GW			0915												-08
MW-9		GW			1025												-09
MW-10		GW			1145												-10

Analysis / Container / Preservative

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 15100 29
J053

Acctnum: **DCPTASMAN**
Template: **T127838**
Prelogin: **P930530**
PM: **824 - Chris Ward**
PB: 6/10/22 MM
Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 5719 6192 7346

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: ✓Y __N
Preservation Correct/Checked: ✓Y __N
RAD Screen <0.5 mR/hr: ✓Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Becky Griffin	6-27-22	1600			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.4+0=.8 °C Bottles Received: 51	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Joby Jacky	Date: 6/29/22 Time: 09:00	Hold: Condition: NCF / OK

Company Name/Address:
DCP Midstream - Tasman
2620 W. Marland Blvd
Hobbs, NM 88240

Billing Information:
Steve Weathers
370 17th St, Ste 2500
Denver, CO 80202

Pres Chk

Report to: **Kyle Norman**

Email To: knorman@tasman-geo.com;swweathers@dcpmidstream.com;jwat

Project Description: **RR - Extension Pipeline Release**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **720-218-4003**

Client Project #

Lab Project # **DCPTASMAN-RR EXT**

Collected by (print): BECKY GRIFFIN

Site/Facility ID #

P.O. # **0000524223**

Collected by (signature): Becky Griffin

Immediately Packed on Ice N ___ Y ___

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

No. of Cntrs

Analysis / Container / Preservative: V8260BTEX 40mlAmb-HCl

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEX 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-11		GW		6-27-22	1305	3	X		-11
MW-12		GW			1245				-12
MW-13		GW			0940				-13
MW-14		GW			1045				-14
MW-15		GW			1105				-15
MW-16		GW			1125				-16
		GW							
		GW							
TRIP BLANK		GW		6-27-22		1	X		-18

Chain of Custody

Pace
PEOPLE ADVANCING SCIENCE

MT JULIET, TN
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

SDG # 151002

Table #

Acctnum: **DCPTASMAN**

Template: **T127838**

Prelogin: **P930530**

PM: 824 - Chris Ward

PB: 6/10/22 RWR

Shipped Via: **FedEX Ground**

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking # 5719 6192 7346

Sample Receipt Checklist
COC Seal Present/Intact: __NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Becky Griffin	6-27-22	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			JoBy Jackey

Trip Blank Received: Yes / No
HCL / MeoH
TBR

Temp: 2.2+1.1 °C Bottles Received: 51

.8 to .8

Date: 6/29/22 Time: 09:00

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 154617

CONDITIONS

Operator:	OGRID:
DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	36785
	Action Number: 154617
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	1Q 2022 Report: Accepted for the record on 01/04/2023; 2Q 2022 Report: Content satisfactory. 1. Continue quarterly groundwater monitoring and sampling for BTEX at the monitoring well locations illustrated on Figure 2. 2. Continue semi-annual sampling activities for chloride analysis to be conducted during the first (March) and third (September) quarter sampling events each calendar year. 3. Following a hiatus in EFR/AS events at the beginning of 2020, quarterly EFR/AS efforts were resumed during the third quarter 2020 and have continued on a quarterly basis through second quarter 2022. 4. Further EFR/AS remediation efforts will be assessed following the 2022 quarterly monitoring events to determine its effectiveness in reducing dissolved phase benzene concentrations. 5. Submit the 2022 third and fourth quarter reports no later than March 31, 2023.	1/4/2023