First Half 2020 Semi-Annual Groundwater Monitoring Summary Report

Monument Booster Station
Lea County, New Mexico
1RP-156-0

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September 9, 2020

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1. Introduction

This report summarizes groundwater monitoring and remediation activities conducted during the first half 2020 at the Monument Booster Station (Site) in Lea County, New Mexico (Figure 1). Tasman Geosciences (Tasman) performed these activities on behalf of DCP Midstream (DCP). The field activities described herein were conducted with the purpose of monitoring groundwater flow and quality conditions and assessing the presence of light non-aqueous phase liquid (LNAPL) hydrocarbons in the Site subsurface. Current Site conditions were evaluated from field data and analytical laboratory results collected on June 22, 2020. The data collected were used to develop the groundwater elevation map and analytical results figure presented herein.

2. Site Location and Background

The Site is located in New Mexico Oil Conservation Division (OCD) designated Unit B, Section 33, Township 19 South, Range 37 East (Figure 1). The facility coordinates are 32.6240 degrees north and 103.2555 degrees west. This facility is an active natural gas compression plant and consists of a main compressor building and other process-related facilities. DCP also owns the property to the south and east that is contiguous to the fenced facility Site boundary (Figure 2).

In 1992, three underground storage tanks (USTs) that formerly contained used oil and pipeline-liquids (oil and/or natural gas liquid condensate) near the main compressor building were removed. At that time and again in 1994, hydrocarbon-impacted soils (approximately 1,000 cubic yards in total) were excavated and removed from the Site. Also in 1994, subsurface soil and groundwater investigation activities were initiated to define the horizontal and vertical extent of residual hydrocarbon impacts. Two groundwater monitoring wells were installed and six soil borings were advanced as part of this investigation. In 1995, six additional monitoring wells were installed and one soil boring was advanced.

Hand bailing of LNAPL was initiated in monitoring wells MW-1 and MW-5 in 1995 or 1996. In 1997, an automated pneumatic LNAPL recovery pumping system (Xitech System) was installed in these wells. In 1999 or 2000, the Xitech System was taken out of service at both wells and replaced by product absorbent socks and hand bailing. In mid-2000, product removal activities were ceased while groundwater monitoring continued.

The Site currently has eight groundwater monitoring wells (MW-1, MW-1D, MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7). Seven of the wells are located on the gas compressor facility, and MW-3 is located in the southeast corner of the adjacent DCP-owned property. Well MW-2 is located in the northwest corner of the Site and is up-gradient of Site impacts.

Based on previously-collected data, it appears that a release of hydrocarbons occurred near the former pipeline-liquid aboveground storage tank (AST) located near monitoring wells MW-1 and MW-1D in the center of the gas compressor facility along the eastern property boundary (Figure 2). Since 1994 or 1995, monitoring wells MW-1 and MW-5 have historically exhibited LNAPL, however overall measurable thicknesses have been significantly reduced since vacuum enhanced fluid recovery activities were

implemented in the first half 2014. Ongoing fluctuations in LNAPL thicknesses at these locations are likely associated with seasonal fluctuations in regional groundwater levels.

Subsequent to the second half 2016 monitoring event, monitoring well MW-6 was removed from the Site Sampling Plan based on dissolved phase petroleum hydrocarbon constituent concentrations that were reported below laboratory detection limits for 13 consecutive quarters. Additionally, due to the MW-6 location being near the flare stack for the compressor facility, conducting monitoring well gauging and sampling activities in the area was determined an unnecessary added health and safety concern.

3. Groundwater Monitoring

This section describes the groundwater field and laboratory activities performed during the first half 2020 semi-annual monitoring event on June 22, 2020. Monitoring activities included Site-wide groundwater gauging, LNAPL measurements, and groundwater sampling. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.

3.1 Groundwater and LNAPL Elevation Monitoring

Groundwater and LNAPL were measured to evaluate hydraulic characteristics and provide information regarding seasonal and annual fluctuations in groundwater and LNAPL elevations at the Site. During the reporting period, groundwater levels were measured at seven site monitoring well locations. Measurable LNAPL was observed in locations MW-1 and MW-5 during the June 2020 sampling event with measured LNAPL thickness of 0.52-feet and 0.18-feet, respectively.

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 levels were later converted to elevations (feet above mean sea level [AMSL]). Measured groundwater levels, calculated groundwater elevations, and LNAPL level data are presented in Table 1.

A first half 2020 groundwater elevation map, included as Figure 3, indicates that groundwater flow at the Site trends to the southeast. Groundwater elevations increased during the monitoring period compared to the second half 2019. Groundwater elevations ranges, average elevation changes from previous monitoring events, and calculated hydraulic gradients at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	First Half 2020 (6/22/2020)
Maximum Elevation (Well ID)	3566.27 feet (MW-2)
Minimum Elevation (Well ID)	3559.86 feet (MW-3)
Average Change from Previous Monitoring Event (ft) – All Wells	0.11 feet
Hydraulic Gradient (ft/ft) / (Well IDs)	0.0073 (MW-2 to MW-3)

3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements, groundwater samples were collected from the seven site wells. A minimum of three well casing volumes of groundwater were purged from each monitoring well prior to collection of groundwater samples. Groundwater samples were collected using disposable polyethylene bailers, placed in clean laboratory-supplied containers for the selected analytical methods, packed in an ice-filled cooler, and maintained at approximately four (4) degrees Celsius (°C) for transportation to the laboratory. Groundwater samples were then shipped under chain-of-custody procedures to Pace Laboratories (Pace) in Mount Juliet, Tennessee, for analysis. Water quality samples were submitted for analysis of benzene, toluene, ethylbenzene, and xylenes (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 June 2020 event are contained in Appendix A, and the laboratory analytical report for the first half 2020 event is included in Appendix B. Analytical results are also displayed on Figure 4.

Analytical results/observations are summarized below:

- LNAPL was observed in monitoring well MW-1 and MW-5 with measurable thickness of 0.52 feet and 0.18 feet, respectively.
- Subsequent to purging LNAPL from the wells MW-1 and MW-5 and removing three purge volumes, analytical groundwater samples were collected to evaluate the dissolved phase BTEX concentrations at these locations. The results of the BTEX concentrations are described below.
- Benzene was detected in exceedance of the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of (0.01 milligrams per liter [mg/L]) in monitoring wells MW-1 (0.0840 mg/L), MW-5 (0.0131 mg/L), and MW-7 (0.0444 mg/L, Duplicate 0.0437 mg/L).
- Toluene, ethylbenzene, and total xylenes were not observed above the NMWQCC standards at any of the sampled monitoring wells during the first half 2020.

3.3 Data Quality Assurance / Quality Control

A trip blank and field duplicate sample (MW-7) was collected during the sampling event. The data was reviewed for compliance with the analytical method and the associated quality assurance/quality control (QA/QC) procedures. All samples were analyzed using the correct analytical methods and within the correct holding times. Chain of custody forms were in order and properly executed and indicate that samples were received at the proper temperature with no headspace. All data was reported using the correct method number and reporting units. QA/QC items of note for the first half 2020 include the following:

- Target analytes were not detected in the trip blank; and

- The duplicate sample collected at MW-7 had a calculated relative percentage difference (RPD) of 1.6% for benzene, which is within the target control range of 20%.

The overall QA/QC assessment, based on the data review, indicates that overall data precision and accuracy are acceptable.

4. Remediation Activities

Remediation activities conducted during the reporting period included vacuum enhanced fluid recovery (EFR) events.

4.1 Vacuum Enhanced Fluid Recovery

EFR events were initiated on a quarterly frequency in June 2013 at monitoring wells MW-1 and MW-5 to address the free phase petroleum hydrocarbon plume on-Site. Beginning the second half 2017, the MW-7 location was added to the EFR events to increase the recovery of dissolved phase BTEX.

EFR activities include the application of high vacuum, using a vacuum truck, to individual well points through a stinger pipe assembly. The stinger was placed slightly below the LNAPL/groundwater interface, thereby removing LNAPL, groundwater, and vapors from the subsurface.

During the first half 2020, bi-monthly EFR events were temporarily discontinued until June 2020 to evaluate LNAPL rebound at the Site without the influence of active remediation. On June 23, 2020, EFR activities re-initiated at the Site. The table below summarizes the well locations, EFR duration, and the recovered fluid volumes for this event. The recovered LNAPL and groundwater was disposed of at the Cooper Disposal Facility in Hobbs, New Mexico.

EFR Location	**6/23/20**
	Duration (hrs) / Volume Removed (bbl)
MW-5	4/9
*MW-1 / MW-7	4/38

Notes:
*Vacuum enhanced fluid recovery at MW-1 and MW-7 was conducted simultaneously.
bbl = barrel (42 gallons)
N/A = Not Applicable

5. Conclusions

Data and observations collected during the first half 2020 yield the following general conclusions:

- Based on historical groundwater elevations, the potentiometric surface at the Site has remained relatively stable with minor elevation changes likely due to seasonal variations.

- The analytical results from the groundwater samples collected at MW-1, MW-5, and MW-7 indicate that remaining source material at the Site is highly degraded and does not contribute significantly to dissolved phase impacts. MW-2 exhibited benzene concentrations below laboratory detection limits during the June 22, 2020 event, following a one-time exceedance of the NMWQCC standard for benzene reported during the September 20, 2019 event. MW-2 has historically been non-detect for BTEX and the analytical results from the June 2020 event are indicative of this trend.

- Following the first half 2020 period of discontinued EFR events, LNAPL was observed at MW-1 and MW-5 with an increase in thickness during the first half 2020 monitoring event. The observed LNAPL thicknesses were the largest observed at MW-1 since March 2017, and at MW-5 since September 2013. The observed rebound in LNAPL thickness demonstrates the effectiveness of active EFR activities for the Site. Bi-monthly EFR activities were re-initiated as of the June 2020 event.

- The overall decrease in historical LNAPL thickness at the Site, the relatively low dissolved phase benzene concentrations at monitoring wells MW-1, MW-5, and MW-7, and the continued non-detect results at downgradient monitoring wells indicate continued mitigation of Site impacts through active remediation efforts.

6. Recommendations

Based on evaluation of first half 2020 and historical Site observations and monitoring results, the following recommendations have been developed for future activities:

- Continue semi-annual groundwater monitoring and sampling at the existing monitoring well locations illustrated on Figure 2.

- Continue EFR events at the Site to address LNAPL and dissolved phase BTEX concentrations.

Tables

TABLE 1
FIRST HALF 2020 SEMI-ANNUAL
SUMMARY OF GROUNDWATER ELEVATION DATA
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location		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	09/19/19	27.58	27.41	0.17	NM	3591.15	3563.70	-0.41
MW-1	06/22/20	27.52	27.00	0.52	NM	3591.15	3564.02	0.32
MW-1D	09/19/19	27.56			36.34	3591.31	3563.75	-0.46
MW-1D	06/22/20	27.56			36.34	3591.31	3563.75	0.00
MW-2**	10/08/19	29.73			43.90	3596.30	3566.57	0.61
MW-2	06/22/20	30.03			43.90	3596.30	3566.27	-0.30
MW-3	09/19/19	23.76			35.65	3583.60	3559.84	-0.37
MW-3	06/22/20	23.74			35.65	3583.60	3559.86	0.02
MW-4	09/19/19	27.20			39.65	3588.77	3561.57	-0.37
MW-4	06/22/20	27.05			39.65	3588.77	3561.72	0.15
MW-5	09/19/19	29.20	29.19	0.01	NM	3592.16	3562.97	-0.38
MW-5	06/22/20	29.09	28.91	0.18	NM	3592.16	3563.21	0.24
MW-6	03/07/17	Removed from site sampling plan 3/2017						
MW-7	09/19/19	27.06			35.02	3589.40	3562.34	-0.47
MW-7	06/22/20	26.70			35.02	3589.40	3562.70	0.36
							Average change in groundwater elevation (9/19/2019 to 6/22/20)	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 grams per cubic centimeter (g/cc)

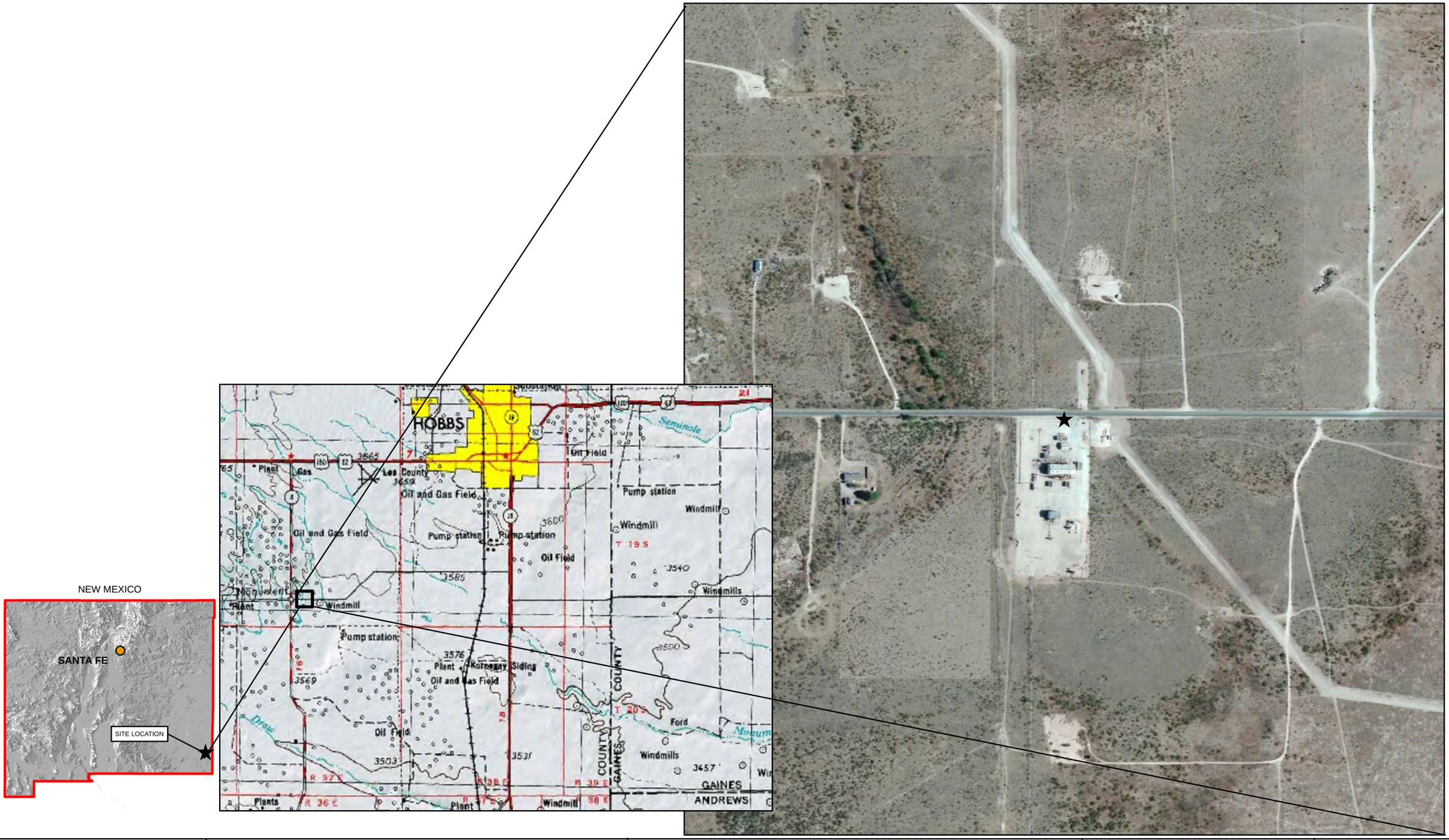
NM = Not Measured
** MW-2 was re-sampled on 10/8/2019. Groundwater elevation was recorded, but result was not used for average change in groundwater elevation or hydraulic gradient equations.

TABLE 2
FIRST HALF 2020 SEMI-ANNUAL
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.01**	**1.00**	**0.75**	**0.62**	
MW-1	06/22/20	**0.084**	<0.0050	0.0603	0.0048	
MW-1D	06/22/20	0.00320	<0.0010	<0.0010	<0.0030	
MW-2	06/22/20	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	06/22/20	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	06/22/20	0.000103 J	<0.0010	<0.0010	<0.0030	
MW-5	06/22/20	**0.0131**	<0.0050	0.0385	<0.0150	
MW-6	03/07/17	Removed from site sampling plan				
MW-7	06/22/20	**0.0444**	<0.0010	0.0518	0.0253	Duplicate sample collected
MW-7 (Duplicate)	06/22/20	**0.0437**	<0.0010	0.0509	0.0251	
Trip Blank	06/22/20	<0.0010	<0.0010	<0.0010	<0.0030	

Notes:
Bold red values indicate an exceedance of the NMWQCC groundwater standards for the Site.
NMWQCC = New Mexico Water Quality Control Commission
mg/L = milligrams per liter
J = A qualifier indicating an estimated value of a concentration above the laboratory's Method Detection Limit (MDL) but below the Reported Detection Limit (RDL).

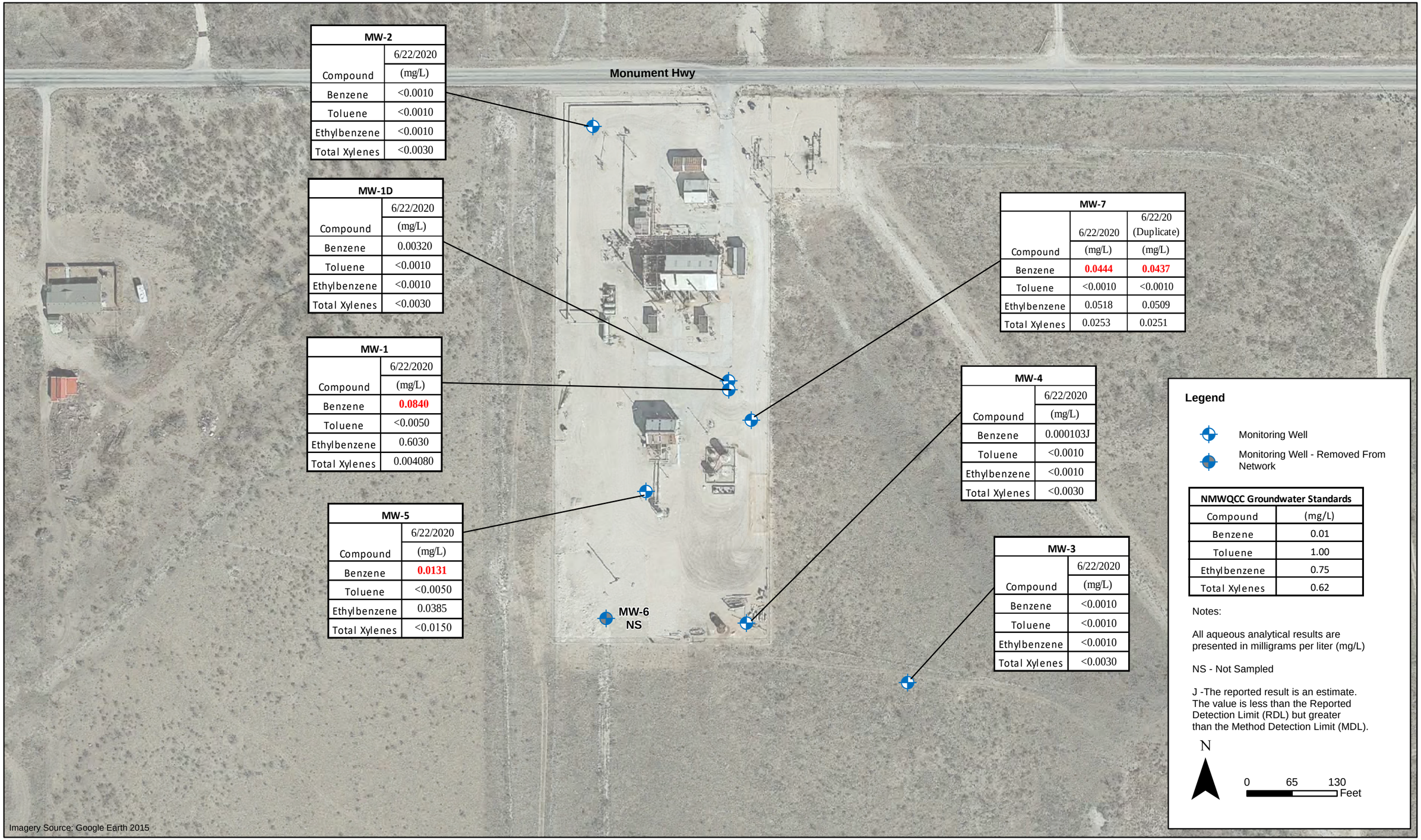
Figures



DATE: May 2015 DESIGNED BY: T. Johansen DRAWN BY: D. Arnold	TASMAN GEOSCIENCES **Tasman Geosciences, Inc.** **6899 Pecos Street - Unit C** **Denver, CO 80221**	**DCP Midstream** **Monument Booster Station** Unit B, Section 33, Township 19 South, Range 37 East Lea County, New Mexico	Site Location Map	Figure 1

DATE: January 2020 DESIGNED BY: B. Humphrey DRAWN BY: J. Clonts	TASMAN GEOSCIENCES **Tasman Geosciences, Inc.** **6855 W. 119th Avenue** **Broomfield, Colorado 80020**	**DCP Midstream** **Monument Booster Station** First Half 2020 Semi-Annual Groundwater Monitoring Summary Report	Site Map with Monitoring Well Locations	Figure 2

DATE: August 2020 DESIGNED BY: B. Humphrey DRAWN BY: J. Clonts	TASMAN GEOSCIENCES **Tasman Geosciences, Inc.** **6855 W. 119th Avenue** **Broomfield, Colorado 80020**	**DCP Midstream** **Monument Booster Station** First Half 2020 Semi-Annual Groundwater Monitoring Summary Report	Groundwater Elevation Contour Map (June 22, 2020)	Figure 3



MW-2	
Compound	6/22/2020 (mg/L)
Benzene	<0.0010
Toluene	<0.0010
Ethylbenzene	<0.0010
Total Xylenes	<0.0030

MW-1D	
Compound	6/22/2020 (mg/L)
Benzene	0.00320
Toluene	<0.0010
Ethylbenzene	<0.0010
Total Xylenes	<0.0030

MW-1	
Compound	6/22/2020 (mg/L)
Benzene	**0.0840**
Toluene	<0.0050
Ethylbenzene	0.6030
Total Xylenes	0.004080

MW-5	
Compound	6/22/2020 (mg/L)
Benzene	**0.0131**
Toluene	<0.0050
Ethylbenzene	0.0385
Total Xylenes	<0.0150

MW-7		
Compound	6/22/2020 (mg/L)	6/22/20 (Duplicate) (mg/L)
Benzene	**0.0444**	**0.0437**
Toluene	<0.0010	<0.0010
Ethylbenzene	0.0518	0.0509
Total Xylenes	0.0253	0.0251

MW-4	
Compound	6/22/2020 (mg/L)
Benzene	0.000103J
Toluene	<0.0010
Ethylbenzene	<0.0010
Total Xylenes	<0.0030

MW-3	
Compound	6/22/2020 (mg/L)
Benzene	<0.0010
Toluene	<0.0010
Ethylbenzene	<0.0010
Total Xylenes	<0.0030

Legend

- Monitoring Well
- Monitoring Well - Removed From Network

NMWQCC Groundwater Standards	
Compound	(mg/L)
Benzene	0.01
Toluene	1.00
Ethylbenzene	0.75
Total Xylenes	0.62

Notes:

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

NS - Not Sampled

J -The reported result is an estimate. The value is less than the Reported Detection Limit (RDL) but greater than the Method Detection Limit (MDL).

N

0 65 130 Feet

DATE: August 2020
DESIGNED BY: B. Humphrey
DRAWN BY: J. Clonts

TASMAN GEOSCIENCES

Tasman Geosciences, Inc.
6855 W. 119th Avenue
Broomfield, Colorado 80020

DCP Midstream
Monument Booster Station
First Half 2020 Semi-Annual Groundwater Monitoring Summary Report

Analytical Results Map
(June 22, 2020)

Figure
4

Appendix A

Historical Analytical Results

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.01**	**1.00**	**0.75**	**0.62**	
MW-1	09/15/11	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	03/06/12	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	09/05/12	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	02/21/13	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	02/26/14	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	09/24/14	Not Sampled - LNAPL Residue				
MW-1	02/24/15	**0.015**	<0.001	0.011	<0.003	
MW-1	09/01/15	**0.042**	<0.005	<0.005	<0.015	
MW-1	03/21/16	**0.098**	<0.005	0.052	<0.015	
MW-1	09/26/16	**0.011**	<0.001	<0.001	<0.003	
MW-1	03/07/17	**0.047**	<0.001	0.031	0.0021	
MW-1	09/25/17	**0.0584**	<0.0010	0.0902	0.00485	
MW-1	03/13/18	**0.0456**	<0.0010	0.0344	0.00221 J	
MW-1	09/17/18	**0.0846**	0.000445 J	0.141	0.00783	
MW-1	03/20/19	**0.134**	<0.0010	0.16	0.00833	
MW-1	09/19/19	**0.127**	<0.0050	0.137	0.0108 J	
MW-1	06/22/20	**0.084**	<0.0050	0.0603	0.0048	
MW-1D	05/16/95	**0.018**	0.015	0.006	0.016	
MW-1D	11/15/95	0.003	0.002	<0.001	0.001	
MW-1D	01/18/96	0.004	0.003	<0.001	0.009	
MW-1D	04/24/96	<0.001	<0.001	<0.001	<0.001	
MW-1D	01/22/97	0.001	0.001	<0.001	<0.001	
MW-1D	08/11/97	<0.001	<0.001	<0.001	<0.001	
MW-1D	01/23/98	<0.001	<0.001	<0.001	<0.001	
MW-1D	08/03/98	<0.001	<0.001	<0.001	<0.001	
MW-1D	02/10/99	<0.001	<0.001	<0.001	<0.001	
MW-1D	08/17/99	<0.001	<0.001	<0.001	<0.001	
MW-1D	02/17/00	0.002	0.003	<0.001	0.001	
MW-1D	08/23/00	<0.005	<0.005	<0.005	<0.005	
MW-1D	02/08/01	<0.001	<0.001	<0.001	0.001	
MW-1D	07/30/01	<0.001	<0.001	<0.001	<0.001	
MW-1D	02/13/02	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/27/02	<0.001	<0.001	<0.001	<0.001	
MW-1D	04/25/03	<0.005	<0.005	<0.005	<0.005	
MW-1D	09/18/03	0.002	<0.001	<0.001	<0.001	
MW-1D	03/17/04	<0.001	<0.001	<0.001	<0.001	
MW-1D	08/17/04	<0.001	<0.001	<0.001	<0.001	
MW-1D	03/04/05	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW-1D	03/16/06	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/20/06	<0.001	<0.001	<0.001	<0.001	
MW-1D	03/22/07	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/25/07	<0.001	<0.001	<0.001	<0.001	
MW-1D	03/19/08	<0.00046	<0.00048	<0.00045	<0.0014	
MW-1D	03/20/08	<0.002	<0.002	<0.002	<0.006	
MW-1D	09/17/08	<0.002	<0.002	<0.002	<0.002	
MW-1D	03/10/09	<0.002/<0.002	<0.002/<0.002	<0.002/<0.002	<0.006/<0.006	
MW-1D	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-1D	09/23/09	<0.002	<0.002	<0.002	<0.006	
MW-1D	09/23/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-1D	05/17/10	<0.002	<0.002	<0.002	<0.006	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.01**	**1.00**	**0.75**	**0.62**	
MW-1D	05/17/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-1D	09/16/10	<0.002	<0.002	<0.002	<0.004	
MW-1D	09/16/10	<0.00030	<0.0010	<0.00030	-	
MW-1D	04/26/11	<0.001	<0.002	<0.002	<0.002	
MW-1D	04/26/11	<0.00030	<0.0010	<0.00030	<0.00060	
MW-1D	09/15/11	<0.001	<0.002	<0.002	<0.004	
MW-1D	03/06/12	<0.005	<0.005	<0.005	<0.015	
MW-1D	09/05/12	<0.005	<0.005	<0.005	<0.015	
MW-1D	02/21/13	**0.016**	<0.001	<0.001	<0.003	
MW-1D	09/11/13	0.0029	<0.001	<0.001	<0.001	
MW-1D	02/26/14	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/24/14	<0.001	<0.001	<0.001	<0.003	
MW-1D	02/24/15	<0.001	<0.001	<0.001	<0.003	
MW-1D	09/01/15	<0.001	<0.001	<0.001	<0.003	
MW-1D	03/21/16	<0.001	<0.001	<0.001	<0.003	
MW-1D	09/26/16	<0.001	<0.001	<0.001	<0.003	
MW-1D	03/07/17	<0.001	<0.001	<0.001	<0.001	
MW-1D	09/25/17	0.000958 J	<0.0010	<0.0010	<0.0030	
MW-1D	03/13/18	0.000918 J	<0.0010	<0.0010	<0.0030	
MW-1D	09/17/18	0.000918 J	<0.0010	<0.0010	<0.0030	
MW-1D	03/20/19	0.00544	<0.0010	0.000403 J	<0.0030	
MW-1D	09/19/19	0.00736	<0.0010	<0.0010	<0.0030	
MW-1D	06/22/20	0.0032	<0.0010	<0.0010	<0.0030	
MW-2	05/16/95	<0.001	<0.001	<0.001	<0.001	
MW-2	11/15/95	NS	0.006	0.002	-	
MW-2	01/18/96	<0.001	<0.001	<0.001	<0.001	
MW-2	04/24/96	<0.001	<0.001	<0.001	<0.001	
MW-2	01/22/97	<0.001	<0.001	<0.001	<0.001	
MW-2	08/11/97	<0.001	<0.001	<0.001	<0.001	
MW-2	01/23/98	<0.001	<0.001	<0.001	<0.001	
MW-2	08/03/98	<0.001	<0.001	<0.001	<0.001	
MW-2	02/10/99	<0.001	<0.001	<0.001	<0.001	
MW-2	08/17/99	0.017	0.002	0.013	0.003	
MW-2	02/17/00	<0.001	<0.001	<0.001	<0.001	
MW-2	08/23/00	<0.001	<0.001	<0.001	<0.001	
MW-2	02/08/01	<0.001	<0.001	<0.001	<0.001	
MW-2	07/30/01	<0.001	<0.001	<0.001	<0.001	
MW-2	02/13/02	<0.001	<0.001	<0.001	<0.001	
MW-2	09/27/02	<0.001	<0.001	<0.001	<0.001	
MW-2	04/25/03	<0.001	<0.001	<0.001	<0.001	
MW-2	09/18/03	0.002	<0.001	<0.001	<0.001	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.01**	**1.00**	**0.75**	**0.62**	
MW-2	03/17/04	<0.001	<0.001	<0.001	<0.001	
MW-2	08/17/04	<0.001	<0.001	<0.001	<0.001	
MW-2	03/04/05	<0.001	<0.001	<0.001	<0.001	
MW-2	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW-2	03/16/06	<0.001	<0.001	<0.001	<0.001	
MW-2	09/20/06	<0.001	<0.001	<0.001	<0.001	
MW-2	03/22/07	<0.001	<0.001	<0.001	<0.001	
MW-2	09/25/07	<0.001	<0.001	<0.001	<0.001	
MW-2	03/19/08	<0.00046	<0.00048	<0.00045	<0.0014	
MW-2	03/20/08	<0.002	<0.002	<0.002	<0.006	
MW-2	09/17/08	<0.002	<0.002	<0.002	<0.006	
MW-2	03/10/09	<0.002	<0.002	<0.002	<0.006	
MW-2	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-2	09/23/09	<0.002	<0.002	<0.002	<0.006	
MW-2	09/23/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-2	05/17/10	<0.002	<0.002	<0.002	<0.006	
MW-2	05/17/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-2	09/16/10	<0.001	<0.002	<0.002	<0.004	
MW-2	09/16/10	<0.00030	<0.0010	<0.00030	-	
MW-2	04/26/11	<0.001	<0.002	<0.002	<0.002	
MW-2	04/26/11	<0.00030	<0.0010	<0.00030	<0.00060	
MW-2	09/15/11	<0.001	<0.002	<0.002	<0.004	
MW-2	03/06/12	<0.005	<0.005	<0.005	<0.015	
MW-2	09/05/12	<0.005	<0.005	<0.005	<0.015	
MW-2	02/21/13	<0.001	<0.001	<0.001	<0.003	
MW-2	09/11/13	<0.001	<0.001	<0.001	<0.001	
MW-2	02/26/14	<0.001	<0.001	<0.001	<0.001	
MW-2	09/24/14	<0.001	<0.001	<0.001	<0.003	MS/MSD Collected
MW-2	02/24/15	<0.001	<0.001	<0.001	<0.003	
MW-2	09/01/15	<0.001	<0.001	<0.001	<0.003	
MW-2	03/21/16	<0.001	<0.001	<0.001	<0.003	
MW-2	09/26/16	<0.001	<0.001	<0.001	<0.003	
MW-2	03/07/17	<0.001	<0.001	<0.001	<0.001	
MW-2	09/25/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	03/13/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	09/18/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	03/20/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	09/19/19	0.00796	0.00224	<0.0010	<0.0030	
MW-2	10/08/19	**0.258**	0.0886	0.00391 J	0.0146 J	Re-sample
MW-2	06/22/20	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	05/16/95	<0.001	<0.001	<0.001	<0.001	
MW-3	11/15/95	<0.001	<0.001	<0.001	<0.001	
MW-3	01/18/96	<0.001	<0.001	<0.001	<0.001	
MW-3	04/24/96	<0.001	<0.001	<0.001	<0.001	
MW-3	01/22/97	<0.001	<0.001	<0.001	<0.001	
MW-3	08/11/97	<0.001	<0.001	<0.001	<0.001	
MW-3	01/23/98	<0.001	<0.001	<0.001	<0.001	
MW-3	08/03/98	0.007	<0.001	<0.001	<0.001	
MW-3	02/10/99	<0.005	<0.005	<0.005	<0.005	
MW-3	08/17/99	0.043	<0.005	<0.005	<0.005	
MW-3	02/17/00	0.021	<0.005	<0.005	<0.005	
MW-3	08/23/00	0.006	<0.005	<0.005	<0.005	
MW-3	02/08/01	0.004	0.001	0.002	0.005	

APPENDIX A
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BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.01**	**1.00**	**0.75**	**0.62**	
MW-3	07/30/01	0.002	<0.001	<0.001	<0.001	
MW-3	02/13/02	0.002	<0.001	<0.001	<0.001	
MW-3	09/27/02	<0.005	<0.005	<0.005	<0.005	
MW-3	04/25/03	<0.005	<0.005	<0.005	<0.005	
MW-3	09/18/03	0.002	<0.001	<0.001	<0.001	
MW-3	03/17/04	<0.001	<0.001	<0.001	<0.001	
MW-3	08/17/04	<0.001	<0.001	<0.001	<0.001	
MW-3	03/04/05	<0.001	<0.001	<0.001	<0.001	
MW-3	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW-3	03/16/06	<0.001	<0.001	<0.001	<0.001	
MW-3	09/20/06	<0.001	<0.001	<0.001	<0.001	
MW-3	03/22/07	<0.001	<0.001	<0.001	<0.001	
MW-3	09/25/07	<0.001	<0.001	<0.001	<0.001	
MW-3	03/19/08	<0.00046	<0.00048	<0.00045	<0.0014	
MW-3	03/20/08	<0.002	<0.002	<0.002	<0.006	
MW-3	09/17/08	<0.002	<0.002	<0.002	<0.006	
MW-3	03/10/09	<0.002	<0.002	<0.002	<0.006	
MW-3	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-3	09/23/09	<0.002	<0.002	<0.002	<0.006	
MW-3	09/23/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-3	05/17/10	<0.002	<0.002	<0.002	<0.006	
MW-3	05/17/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-3	09/16/10	<0.001	<0.002	<0.002	<0.004	
MW-3	09/16/10	<0.00030	<0.0010	<0.00030	-	
MW-3	04/26/11	<0.001	<0.002	<0.002	<0.002	
MW-3	04/26/11	<0.00030	<0.0010	<0.00030	<0.00060	
MW-3	09/15/11	<0.001	<0.002	<0.002	<0.004	
MW-3	03/06/12	<0.005	<0.005	<0.005	<0.015	
MW-3	09/05/12	<0.005	<0.005	<0.005	<0.015	
MW-3	02/21/13	<0.001	<0.001	<0.001	<0.003	
MW-3	09/11/13	<0.001	<0.001	<0.001	<0.001	
MW-3	02/26/14	<0.001	<0.001	<0.001	<0.001	
MW-3	09/24/14	<0.001	<0.001	<0.001	<0.003	
MW-3	02/24/15	<0.001	<0.001	<0.001	<0.003	
MW-3	09/01/15	<0.001	<0.001	<0.001	<0.003	
MW-3	03/21/16	<0.001	<0.001	<0.001	<0.003	
MW-3	09/26/16	<0.001	<0.001	<0.001	<0.003	
MW-3	03/07/17	<0.001	<0.001	<0.001	<0.001	
MW-3	09/25/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	03/13/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	09/18/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	03/20/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	09/19/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	06/22/20	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	05/16/95	<0.001	<0.001	<0.001	<0.001	
MW-4	11/15/95	NS	0.006	0.002	0.1	
MW-4	01/18/96	0.003	<0.001	<0.001	<0.001	
MW-4	04/24/96	<0.002	<0.002	<0.002	<0.002	
MW-4	01/22/97	0.002	<0.001	<0.001	<0.001	
MW-4	08/11/97	0.001	<0.001	<0.001	<0.001	
MW-4	01/23/98	<0.001	<0.001	<0.001	<0.001	
MW-4	08/03/98	<0.001	<0.001	<0.001	<0.001	
MW-4	02/10/99	<0.001	<0.001	<0.001	<0.001	

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BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.01**	**1.00**	**0.75**	**0.62**	
MW-4	08/17/99	<0.001	<0.001	<0.001	0.001	
MW-4	02/17/00	<0.005	<0.005	<0.005	<0.005	
MW-4	08/23/00	<0.005	<0.005	<0.005	<0.005	
MW-4	02/08/01	0.002	<0.001	<0.001	0.002	
MW-4	07/30/01	<0.001	<0.001	<0.001	<0.001	
MW-4	02/13/02	NS	NS	NS	NS	
MW-4	09/27/02	NS	NS	NS	NS	
MW-4	04/25/03	<0.001	<0.001	<0.001	<0.001	
MW-4	09/18/03	<0.001	<0.001	<0.001	<0.001	
MW-4	03/17/04	<0.001	<0.001	<0.001	<0.001	
MW-4	08/17/04	<0.001	<0.001	<0.001	<0.001	
MW-4	03/04/05	<0.001	<0.001	<0.001	<0.001	
MW-4	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW-4	03/16/06	<0.001	<0.001	<0.001	<0.001	
MW-4	09/20/06	<0.002	<0.001	<0.001	0.0043	
MW-4	03/22/07	<0.002	<0.001	<0.001	0.0036	
MW-4	09/25/07	<0.002	<0.001	<0.001	<0.001	
MW-4	03/19/08	<0.00046	<0.00048	<0.00045	<0.0014	
MW-4	03/20/08	<0.002	<0.002	<0.002	<0.006	
MW-4	09/17/08	<0.002	<0.002	<0.002	<0.006	
MW-4	03/10/09	<0.002	<0.002	<0.002	<0.006	
MW-4	03/11/09	<0.00046	<0.00048	<0.00045	<0.0014	
MW-4	09/23/09	<0.002	<0.002	<0.002	<0.006	
MW-4	09/23/09	<0.00050	<0.00043	<0.00055	<0.0017	
MW-4	05/17/10	<0.002	<0.002	<0.002	<0.006	
MW-4	05/17/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-4	09/16/10	<0.001	<0.002	<0.002	<0.004	
MW-4	09/16/10	<0.00030	<0.0010	<0.00030	-	
MW-4	04/26/11	<0.001	<0.002	<0.002	<0.002	
MW-4	06/02/11	<0.00025	<0.0010	<0.00050	<0.0020	
MW-4	09/15/11	<0.001	<0.002	<0.002	<0.004	
MW-4	03/06/12	<0.005	<0.005	<0.005	<0.015	
MW-4	09/05/12	<0.005	<0.005	<0.005	<0.015	
MW-4	02/21/13	<0.001	<0.001	<0.001	<0.003	
MW-4	09/11/13	<0.001	<0.001	<0.001	<0.001	
MW-4	02/26/14	<0.001	<0.001	<0.001	<0.001	
MW-4	09/24/14	<0.001	<0.001	<0.001	<0.003	
MW-4	02/24/15	<0.001	<0.001	<0.001	<0.003	
MW-4	09/01/15	<0.001	<0.001	<0.001	<0.003	
MW-4	03/21/16	<0.001	<0.001	<0.001	<0.003	
MW-4	09/26/16	<0.001	<0.001	<0.001	<0.003	
MW-4	03/07/17	<0.001	<0.001	<0.001	<0.001	
MW-4	09/25/17	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	03/13/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	09/18/18	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	03/20/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	09/19/19	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	06/22/20	0.000103 J	<0.0010	<0.0010	<0.0030	

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BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.01**	**1.00**	**0.75**	**0.62**	
MW-5	09/15/11	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	03/06/12	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/05/12	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	02/21/13	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/11/13	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	02/26/14	LNAPL	LNAPL	LNAPL	LNAPL	
MW-5	09/24/14	Not Sampled - LNAPL Residue				
MW-5	02/24/15	Not Sampled - LNAPL				
MW-5	09/01/15	**0.034**	<0.005	0.073	<0.015	
MW-5	03/21/16	0.0078	<0.005	0.019	<0.015	
MW-5	09/26/16	0.0079	<0.001	0.0045	<0.003	
MW-5	03/07/17	**0.032**	<0.001	0.054	0.012	
MW-5	09/25/17	**0.0155**	<0.0010	0.0651	0.0108	
MW-5	03/13/18	**0.0151**	<0.0010	0.0117	0.00140 J	
MW-5	09/17/18	**0.0101**	<0.0010	0.0231	0.00118 J	
MW-5	03/20/19	**0.0147**	<0.0010	0.0283	0.00106 J	
MW-5	09/19/19	**0.0103**	<0.0010	0.0543	0.00106 J	
MW-5	06/22/20	**0.0131**	<0.0050	0.0385	<0.0150	
MW-6	11/15/95	0.003	0.001	<0.001	0.003	
MW-6	01/18/96	0.002	<0.001	<0.001	<0.001	
MW-6	04/24/96	<0.001	<0.001	<0.001	<0.001	
MW-6	01/22/97	0.001	<0.001	<0.001	<0.001	
MW-6	08/11/97	<0.001	<0.001	<0.001	0.001	
MW-6	01/23/98	<0.001	<0.001	<0.001	<0.001	
MW-6	08/03/98	<0.001	<0.001	<0.001	<0.001	
MW-6	02/10/99	<0.001	<0.001	<0.001	0.014	
MW-6	08/17/99	0.002	<0.001	<0.001	0.012	
MW-6	02/17/00	<0.001	0.004	<0.001	0.006	
MW-6	08/23/00	<0.001	0.004	<0.001	0.011	
MW-6	02/08/01	<0.001	<0.001	<0.001	0.011	
MW-6	07/30/01	<0.001	<0.001	<0.001	<0.001	
MW-6	02/13/02	<0.001	<0.001	<0.001	<0.001	
MW-6	09/27/02	<0.005	<0.005	<0.005	<0.005	
MW-6	04/25/03	<0.001	<0.001	<0.001	<0.001	
MW-6	09/18/03	0.002	<0.001	0.002	0.001	
MW-6	03/17/04	<0.001	<0.001	<0.001	<0.001	
MW-6	08/17/04	<0.001	<0.001	<0.001	<0.001	
MW-6	03/04/05	0.0061	<0.001	0.0032	<0.001	
MW-6	09/21/05	<0.001	<0.001	<0.001	<0.001	
MW-6	03/16/06	<0.001	<0.001	<0.001	<0.001	
MW-6	09/20/06	0.0391	<0.001	0.0287	0.0194	

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MONUMENT BOOSTER STATION
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Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.01**	**1.00**	**0.75**	**0.62**	
MW-6	03/22/07	<0.001	<0.001	<0.001	0.0013	
MW-6	09/25/07	<0.001	<0.001	<0.001	<0.001	
MW-6	03/20/08	NS	NS	NS	NS	
MW-6	09/17/08	NS	NS	NS	NS	
MW-6	03/10/09	NS	NS	NS	NS	
MW-6	09/23/09	0.035	<0.002	0.0215	0.0052J	
MW-6	09/23/09	**0.035**	<0.00043	0.0215	0.0052	
MW-6	05/17/10	<0.002	<0.002	<0.002	<0.006	
MW-6	05/17/10	<0.00050	<0.00043	<0.00055	<0.0017	
MW-6	09/16/10	<0.001	<0.002	<0.002	<0.004	
MW-6	09/16/10	<0.00030	<0.0010	<0.00030	-	
MW-6	04/26/11	<0.001	<0.002	<0.002	<0.002	
MW-6	06/02/11	<0.00025	<0.0010	<0.00050	<0.0020	
MW-6	03/06/12	<0.005	<0.005	<0.005	<0.015	
MW-6	09/05/12	<0.005	<0.005	<0.005	<0.015	
MW-6	02/21/13	<0.001	<0.001	<0.001	<0.003	
MW-6	09/11/13	<0.001	<0.001	<0.001	<0.001	
MW-6	02/26/14	<0.001	<0.001	<0.001	<0.001	
MW-6	09/24/14	<0.001	<0.001	<0.001	<0.003	
MW-6	02/24/15	<0.001	<0.001	<0.001	<0.003	
MW-6	09/01/15	<0.001	<0.001	<0.001	<0.003	
MW-6	03/21/16	<0.001	<0.001	<0.001	<0.003	
MW-6	09/26/16	<0.001	<0.001	<0.001	<0.003	
MW-6	03/07/17	Removed from site sampling plan				
MW-7	11/15/95	**0.465**	0.205	<0.001	0.163	
MW-7	01/18/96	**1.13**	0.476	0.003	0.365	
MW-7	04/24/96	**0.585**	0.251	<0.002	0.013	
MW-7	01/22/97	**0.896**	0.24	<0.005	0.33	
MW-7	08/11/97	**0.317**	0.155	0.2	0.049	
MW-7	01/23/98	**0.876**	0.486	<0.005	0.181	
MW-7	08/03/98	**0.094**	0.064	<0.005	0.007	
MW-7	02/10/99	**0.597**	0.44	<0.005	0.12	
MW-7	08/17/99	**0.705**	0.06	<0.005	0.556	
MW-7	02/17/00	**0.573**	0.49	<0.005	0.226	
MW-7	08/23/00	**0.546**	0.484	0.006	0.177	
MW-7	02/08/01	**0.355**	0.424	<0.005	0.052	
MW-7	07/30/01	**0.017**	0.058	<0.005	<0.005	
MW-7	02/13/02	**0.228**	0.094	<0.005	0.5	
MW-7	09/27/02	**0.015**	0.017	<0.005	<0.005	
MW-7	04/25/03	**0.157**	0.192	<0.005	0.02	
MW-7	09/18/03	**0.018**	0.023	<0.001	0.004	
MW-7	03/17/04	**0.125**	0.108	<0.10	0.033	
MW-7	08/17/04	**0.237**	0.081	<0.20	<0.020	
MW-7	03/04/05	**.125/.121**	<0.001	0.0467/0.0453	0.0202	
MW-7	09/21/05	**.15/0.148**	<0.001	0.079/0.0789	0.0248	
MW-7	03/16/06	**0.191**	0.0032	0.073	<0.001	
MW-7	09/20/06	**0.236**	<0.001	0.176	0.187	
MW-7	03/22/07	**0.209/0.215**	<0.05/<0.01	.149/.121	0.116/0.0532	
MW-7	09/25/07	**0.465/0.458**	<0.01/<0.01	.318/.314	.0307/0.302	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.01**	**1.00**	**0.75**	**0.62**	
MW-7	03/19/08	**0.161**	<0.00048	0.057	0.0295	
MW-7	03/20/08	**0.161/0.169**	<0.002/<0.002	.057/.0637	0.0295/0.0325	
MW-7	09/17/08	**0.083**	<0.002	0.0475	0.0204	
MW-7	03/10/09	**0.039**	<0.002	0.0177	0.0052 J	
MW-7	03/11/09	**0.0339**	<0.00048	0.0177	0.0052	
MW-7	09/23/09	**0.0332**	<0.00043	0.0176	0.0033	
MW-7	09/23/09	**0.0332/<0.002**	<0.002/<0.002	.0176/<0.002	0.0033J/<0.006	
MW-7	05/17/10	**0.0201/0.0198**	<0.002/<0.002	.0095/.0092	0.0033J/0.0033J	
MW-7	05/17/10	**0.0201**	<0.00043	0.0095	0.0033	
MW-7	09/16/10	**0.522/0.512**	<0.01/<0.01	0.294/0.289	0.0383/0.0378	
MW-7	09/16/10	**0.522**	<0.0050	0.294	-	
MW-7	04/26/11	0.0091/**0.0104**	<0.01/<0.01	0.0042/0.0041	<0.01/<0.01	
MW-7	04/26/11	0.0091	<0.0050	0.0042	<0.0030	
MW-7	09/15/11	**0.394**	<0.01	0.149	0.0442	Duplicate sample collected
MW-7	03/06/12	0.0098	<0.0050	0.0088	<0.015	
MW-7	09/05/12	**0.014**	<0.005	0.01	<0.015	Duplicate sample collected
MW-7	02/21/13	0.0059	<0.001	0.0049	<0.003	Duplicate sample collected
MW-7	09/11/13	0.0024	<0.001	0.0013	<0.001	Duplicate sample collected
MW-7	02/26/14	0.003	<0.001	<0.001	<0.001	Duplicate sample collected
MW-7	09/24/14	0.0023	<0.001	<0.001	<0.003	Duplicate sample collected
MW-7 (Duplicate)	09/24/14	0.0021	<0.001	<0.001	<0.003	
MW-7	02/24/15	0.0087	<0.001	0.0026	<0.003	Duplicate sample collected
MW-7 (Duplicate)	02/24/15	0.009	<0.001	0.0035	<0.003	
MW-7	09/01/15	**0.044**	<0.001	0.037	0.0094	Duplicate sample collected
MW-7 (Duplicate)	09/01/15	**0.049**	<0.001	0.039	0.01	
MW-7	03/21/16	**0.061**	<0.001	0.05	0.017	Duplicate sample collected
MW-7 (Duplicate)	03/21/16	**0.057**	<0.001	0.048	<0.015	
MW-7	09/26/16	**0.35**	<0.001	0.31	0.055	Duplicate sample collected
MW-7 (Duplicate)	09/26/16	**0.33**	<0.001	0.3	0.052	
MW-7	03/07/17	**0.11**	<0.001	0.0069	0.03	Duplicate sample collected
MW-7 (Duplicate)	03/07/17	**0.11**	<0.001	0.0014	0.029	
MW-7	09/25/17	**0.275**	<0.0010	0.0886	0.0389	Duplicate sample collected
MW-7 (Duplicate)	09/25/17	**0.279**	<0.0010	0.0868	0.0383	
MW-7	03/13/18	**0.175**	<0.0010	0.0875	0.0395	Duplicate sample collected
MW-7 (Duplicate)	03/13/18	**0.169**	<0.0010	0.0813	0.0366	
MW-7	09/17/18	**0.0852**	<0.0010	0.122	0.0462	Duplicate sample collected
MW-7 (Duplicate)	09/17/18	**0.0803**	<0.0010	0.111	0.0422	
MW-7	03/20/19	**0.0326**	<0.0010	0.0374	0.0192	Duplicate sample collected
MW-7 (Duplicate)	03/20/19	**0.0327**	<0.0010	0.0367	0.0189	
MW-7	09/19/19	**0.0173**	<0.0010	0.0206	0.00775	Duplicate sample collected
MW-7 (Duplicate)	09/19/19	**0.0169**	<0.0010	0.0197	0.00716	
MW-7	06/22/20	**0.0444**	<0.0010	0.0518	0.0253	Duplicate sample collected
MW-7 (Duplicate)	06/22/20	**0.0437**	<0.0010	0.0509	0.0251	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
MONUMENT BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		**0.01**	**1.00**	**0.75**	**0.62**	
Trip Blank	02/26/14	<0.001	<0.001	<0.001	<0.001	
Trip Blank	09/24/14	<0.001	<0.001	<0.001	<0.003	
Trip Blank	02/24/15	<0.001	<0.001	<0.001	<0.003	
Trip Blank	09/01/15	<0.001	<0.001	<0.001	<0.003	
Trip Blank	03/21/16	<0.001	<0.001	<0.001	<0.003	
Trip Blank	09/26/16	<0.001	<0.001	<0.001	<0.003	
Trip Blank	03/07/17	<0.001	<0.001	<0.001	<0.001	
Trip Blank	09/25/17	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	03/13/18	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	09/18/18	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	03/20/19	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	09/19/19	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	06/22/20	<0.0010	<0.0010	<0.0010	<0.0030	

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

J = Estimated Value

NS = Not Sampled

mg/L = milligrams per liter

J = A qualifier indicating an estimated value of a concentration above the laboratory's Method Detection Limit (MDL) but below the Reported Detection Limit (RDL).

Appendix B

Laboratory Analytical Reports

Pace Laboratories Job #'s: L1231984

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

June 30, 2020

DCP Midstream - Tasman

Sample Delivery Group:	L1231984
Samples Received:	06/23/2020
Project Number:	
Description:	Monument Booster Station

Report To:

Nick Kopiasz
2620 W. Marland Blvd
Hobbs, NM 88240

Entire Report Reviewed By: Chris Ward

Chris Ward
Project Manager

TABLE OF CONTENTS

MW-1 L1231984-01 GW

Collected by: Becky Griffin | Collected date/time: 06/22/20 09:50 | Received date/time: 06/23/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1499600	5	06/27/20 02:31	06/27/20 02:31	JAH	Mt. Juliet, TN

MW-1D L1231984-02 GW

Collected by: Becky Griffin | Collected date/time: 06/22/20 10:15 | Received date/time: 06/23/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1499600	1	06/27/20 00:07	06/27/20 00:07	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1500689	1	06/28/20 23:18	06/28/20 23:18	ACG	Mt. Juliet, TN

MW-2 L1231984-03 GW

Collected by: Becky Griffin | Collected date/time: 06/22/20 12:00 | Received date/time: 06/23/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1499654	1	06/26/20 19:41	06/26/20 19:41	JCP	Mt. Juliet, TN

MW-3 L1231984-04 GW

Collected by: Becky Griffin | Collected date/time: 06/22/20 13:20 | Received date/time: 06/23/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1499654	1	06/26/20 20:01	06/26/20 20:01	JCP	Mt. Juliet, TN

MW-4 L1231984-05 GW

Collected by: Becky Griffin | Collected date/time: 06/22/20 11:00 | Received date/time: 06/23/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1499654	1	06/26/20 20:20	06/26/20 20:20	JCP	Mt. Juliet, TN

MW-5 L1231984-06 GW

Collected by: Becky Griffin | Collected date/time: 06/22/20 11:25 | Received date/time: 06/23/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1499654	5	06/27/20 01:34	06/27/20 01:34	JCP	Mt. Juliet, TN

MW-7 L1231984-07 GW

Collected by: Becky Griffin | Collected date/time: 06/22/20 10:35 | Received date/time: 06/23/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1499654	1	06/26/20 20:40	06/26/20 20:40	JCP	Mt. Juliet, TN

DUPLICATE L1231984-08 GW

Collected by: Becky Griffin | Collected date/time: 06/22/20 00:00 | Received date/time: 06/23/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1499654	1	06/26/20 20:59	06/26/20 20:59	JCP	Mt. Juliet, TN

TRIP BLANK L1231984-09 GW

Collected by	Collected date/time	Received date/time
Becky Griffin	06/22/20 15:00	06/23/20 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1499654	1	06/26/20 19:21	06/26/20 19:21	JCP	Mt. Juliet, TN

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	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.0840		0.000471	0.00500	5	06/27/2020 02:31	WG1499600
Toluene	U		0.00139	0.00500	5	06/27/2020 02:31	WG1499600
Ethylbenzene	0.0603		0.000685	0.00500	5	06/27/2020 02:31	WG1499600
Total Xylenes	0.00480		0.000174	0.00300	5	06/27/2020 02:31	WG1499600
(S) Toluene-d8	*102*			*80.0-120*		*06/27/2020 02:31*	WG1499600
(S) 4-Bromofluorobenzene	*109*			*77.0-126*		*06/27/2020 02:31*	WG1499600
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*		*06/27/2020 02:31*	WG1499600

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	0.00320		0.0000941	0.00100	1	06/27/2020 00:07	WG1499600
Toluene	U		0.000278	0.00100	1	06/27/2020 00:07	WG1499600
Ethylbenzene	U		0.000137	0.00100	1	06/28/2020 23:18	WG1500689
Total Xylenes	U		0.000174	0.00300	1	06/28/2020 23:18	WG1500689
(S) Toluene-d8	*103*			*80.0-120*		*06/27/2020 00:07*	WG1499600
(S) Toluene-d8	*105*			*80.0-120*		*06/28/2020 23:18*	WG1500689
(S) 4-Bromofluorobenzene	*101*			*77.0-126*		*06/27/2020 00:07*	WG1499600
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*06/28/2020 23:18*	WG1500689
(S) 1,2-Dichloroethane-d4	*107*			*70.0-130*		*06/27/2020 00:07*	WG1499600
(S) 1,2-Dichloroethane-d4	*126*			*70.0-130*		*06/28/2020 23:18*	WG1500689

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	06/26/2020 19:41	WG1499654
Toluene	U		0.000278	0.00100	1	06/26/2020 19:41	WG1499654
Ethylbenzene	U		0.000137	0.00100	1	06/26/2020 19:41	WG1499654
Total Xylenes	U		0.000174	0.00300	1	06/26/2020 19:41	WG1499654
(S) Toluene-d8	*118*			*80.0-120*		*06/26/2020 19:41*	WG1499654
(S) 4-Bromofluorobenzene	*98.1*			*77.0-126*		*06/26/2020 19:41*	WG1499654
(S) 1,2-Dichloroethane-d4	*92.9*			*70.0-130*		*06/26/2020 19:41*	WG1499654

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	06/26/2020 20:01	WG1499654
Toluene	U		0.000278	0.00100	1	06/26/2020 20:01	WG1499654
Ethylbenzene	U		0.000137	0.00100	1	06/26/2020 20:01	WG1499654
Total Xylenes	U		0.000174	0.00300	1	06/26/2020 20:01	WG1499654
(S) Toluene-d8	*114*			*80.0-120*		*06/26/2020 20:01*	WG1499654
(S) 4-Bromofluorobenzene	*99.6*			*77.0-126*		*06/26/2020 20:01*	WG1499654
(S) 1,2-Dichloroethane-d4	*93.9*			*70.0-130*		*06/26/2020 20:01*	WG1499654

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	0.000103	J	0.0000941	0.00100	1	06/26/2020 20:20	WG1499654
Toluene	U		0.000278	0.00100	1	06/26/2020 20:20	WG1499654
Ethylbenzene	U		0.000137	0.00100	1	06/26/2020 20:20	WG1499654
Total Xylenes	U		0.000174	0.00300	1	06/26/2020 20:20	WG1499654
(S) Toluene-d8	*117*			*80.0-120*		*06/26/2020 20:20*	WG1499654
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*06/26/2020 20:20*	WG1499654
(S) 1,2-Dichloroethane-d4	*92.6*			*70.0-130*		*06/26/2020 20:20*	WG1499654

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	0.0131		0.000471	0.00500	5	06/27/2020 01:34	WG1499654
Toluene	U		0.00139	0.00500	5	06/27/2020 01:34	WG1499654
Ethylbenzene	0.0385		0.000685	0.00500	5	06/27/2020 01:34	WG1499654
Total Xylenes	U		0.000870	0.0150	5	06/27/2020 01:34	WG1499654
(S) Toluene-d8	*108*			*80.0-120*		*06/27/2020 01:34*	WG1499654
(S) 4-Bromofluorobenzene	*108*			*77.0-126*		*06/27/2020 01:34*	WG1499654
(S) 1,2-Dichloroethane-d4	*91.3*			*70.0-130*		*06/27/2020 01:34*	WG1499654

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	0.0444		0.0000941	0.00100	1	06/26/2020 20:40	WG1499654
Toluene	U		0.000278	0.00100	1	06/26/2020 20:40	WG1499654
Ethylbenzene	0.0518		0.000137	0.00100	1	06/26/2020 20:40	WG1499654
Total Xylenes	0.0253		0.000174	0.00300	1	06/26/2020 20:40	WG1499654
(S) Toluene-d8	*110*			*80.0-120*		*06/26/2020 20:40*	WG1499654
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*06/26/2020 20:40*	WG1499654
(S) 1,2-Dichloroethane-d4	*90.7*			*70.0-130*		*06/26/2020 20:40*	WG1499654

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	0.0437		0.0000941	0.00100	1	06/26/2020 20:59	WG1499654
Toluene	U		0.000278	0.00100	1	06/26/2020 20:59	WG1499654
Ethylbenzene	0.0509		0.000137	0.00100	1	06/26/2020 20:59	WG1499654
Total Xylenes	0.0251		0.000174	0.00300	1	06/26/2020 20:59	WG1499654
(S) Toluene-d8	*111*			*80.0-120*		*06/26/2020 20:59*	WG1499654
(S) 4-Bromofluorobenzene	*103*			*77.0-126*		*06/26/2020 20:59*	WG1499654
(S) 1,2-Dichloroethane-d4	*88.4*			*70.0-130*		*06/26/2020 20:59*	WG1499654

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	06/26/2020 19:21	WG1499654
Toluene	U		0.000278	0.00100	1	06/26/2020 19:21	WG1499654
Ethylbenzene	U		0.000137	0.00100	1	06/26/2020 19:21	WG1499654
Total Xylenes	U		0.000174	0.00300	1	06/26/2020 19:21	WG1499654
(S) Toluene-d8	*116*			*80.0-120*		*06/26/2020 19:21*	WG1499654
(S) 4-Bromofluorobenzene	*104*			*77.0-126*		*06/26/2020 19:21*	WG1499654
(S) 1,2-Dichloroethane-d4	*90.7*			*70.0-130*		*06/26/2020 19:21*	WG1499654

Method Blank (MB)

(MB) R3543934-2 06/26/20 18:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*103*			*80.0-120*
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*109*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3543934-1 06/26/20 18:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00520	104	70.0-123	
Ethylbenzene	0.00500	0.00492	98.4	79.0-123	
Toluene	0.00500	0.00458	91.6	79.0-120	
Xylenes, Total	0.0150	0.0142	94.7	79.0-123	
(S) Toluene-d8			*101*	*80.0-120*	
(S) 4-Bromofluorobenzene			*96.8*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*111*	*70.0-130*	

Method Blank (MB)

(MB) R3544333-2 06/26/20 19:02

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*117*			*80.0-120*
(S) 4-Bromofluorobenzene	*101*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*92.8*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3544333-1 06/26/20 18:23

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00509	102	70.0-123	
Ethylbenzene	0.00500	0.00527	105	79.0-123	
Toluene	0.00500	0.00533	107	79.0-120	
Xylenes, Total	0.0150	0.0154	103	79.0-123	
(S) Toluene-d8			*114*	*80.0-120*	
(S) 4-Bromofluorobenzene			*104*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*92.8*	*70.0-130*	

Method Blank (MB)

(MB) R3544175-2 06/28/20 17:43

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	*105*			*80.0-120*
(S) 4-Bromofluorobenzene	*104*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*125*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3544175-1 06/28/20 16:56

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Ethylbenzene	0.00500	0.00481	96.2	79.0-123	
Xylenes, Total	0.0150	0.0145	96.7	79.0-123	
(S) Toluene-d8			*101*	*80.0-120*	
(S) 4-Bromofluorobenzene			*105*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*121*	*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.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* 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 National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
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	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

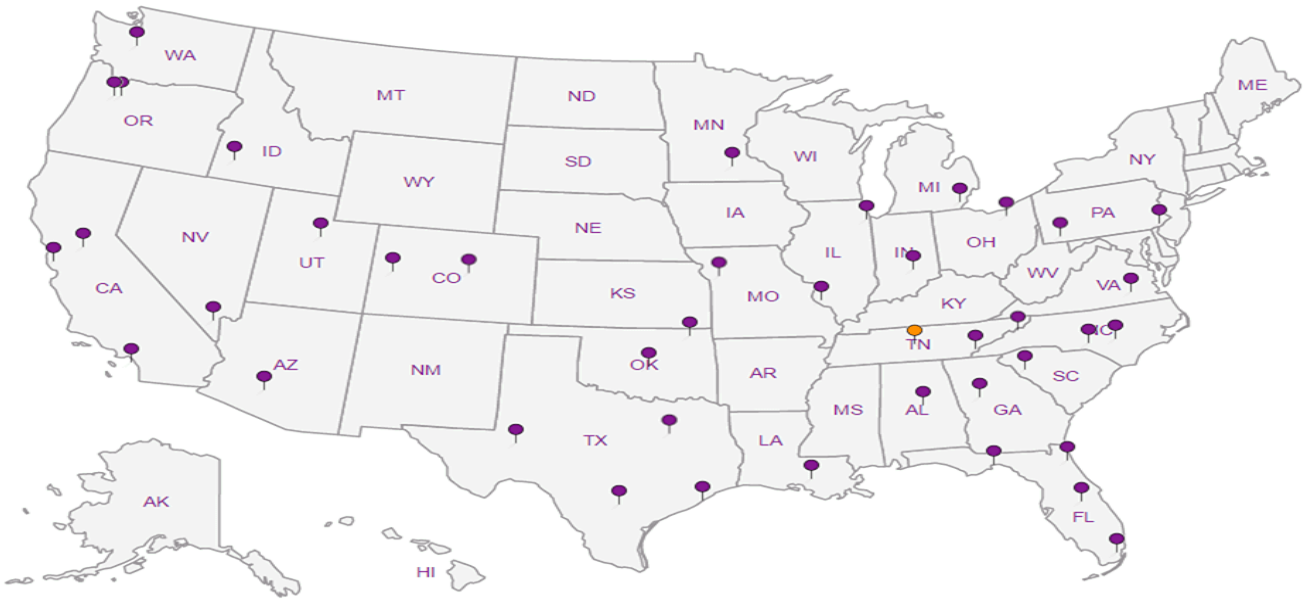
Third Party Federal Accreditations

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

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



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: Nick Kopiasz

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

Project Description: Monument Booster Station

City/State Collected:

Please Circle: PT MT CT ET

Phone: 720-218-4003
Fax:

Client Project #

Lab Project #: DCPTASMAN-MONUMENT

Collected by (print): Becky Griffin

Site/Facility ID #

P.O. #: 0000524231

Collected by (signature):

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

Immediately Packed on Ice N ___ Y ___

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

SDG # E185

Acctnum: DCPTASMAN
Template: T127836
Prelogin: P761442
PM: 824 - Chris Ward
PB: LC 3/18
Shipped Via: FedEX Ground

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260BTEX 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-1		GW		6-22-20	0950	3	✓		01
MW-1D		GW		6-22-20	1015	3	✓		02
MW-2		GW		6-22-20	1200	3	✓		03
MW-3		GW		6-22-20	1320	3	✓		04
MW-4		GW		6-22-20	1100	3	✓		05
MW-5		GW		6-22-20	1125	3	✓		06
MW-7		GW		6-22-20	1035	3	✓		07
DUPLICATE		GW		6-22-20	—	3	✓		08
TRIP BLANK		GW		6-22-20	1500	1			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 # 1663 5756 2646

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: ✓ __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	6-22-20	1500		1	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: MA3 °C 1.0-.2=.8 / Bottles Received: 24	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 6-23 Time: 0845	Hold: / Condition: NCF / OK