

# First Quarter 2021 Groundwater Monitoring and Activities Summary Report

## Burton Flats Booster Station Eddy County, New Mexico

#2R799

Prepared for:



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**April 22, 2021**

Review of Second Quarter 2021 Groundwater Monitoring and Activities Summary Report: Content satisfactory

1. Follow recommendations stated within 2Q 2021 Groundwater Monitoring and Activities Summary Report.
  - a. Continue quarterly groundwater monitoring and sampling at the monitoring locations illustrated on Figure 2
  - b. Continue monitoring and evaluation of the passive LNAPL skimmer and recovery system
  - c. Continue quarterly EFR event(s) at monitoring wells MW-1 and MW-4 during the third quarter 2021



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## 1. Introduction

This report summarizes groundwater monitoring and remediation activities conducted during the first quarter 2021 at the Burton Flats Booster Station (Site) in Eddy County, New Mexico (Figure 1). Tasman Geosciences (Tasman) performed these activities on behalf of DCP Midstream, LP (DCP). Field activities 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 laboratory analytical results collected on March 24, 2021.

## 2. Site Location and Background

The Site is located in the Fourth and Fifth Lots of Section 1, Township 21 South, Range 27 East (approximate coordinates 32.5195 degrees north and 104.1507 degrees west). It is approximately 3.4 miles northwest of the intersection of US Highway 62 and County Road 243. 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 release of approximately 10 barrels (bbl) of oil and produced water occurred on October 5, 2009, of which approximately 8 bbls were recovered from within the tank secondary containment area. The C-141 report was submitted on October 12, 2009, and Site investigation and soil sampling within the release area occurred during the third quarter of 2009 and early fourth quarter of 2010 (BH-1 through BH-5). Elevated levels of petroleum hydrocarbons within the soil were encountered at depths of 20-feet below ground surface (bgs). Groundwater was encountered between 16-feet and 20-feet bgs during Site characterization activities. Subsequent to soil investigation efforts, four groundwater monitoring wells were installed around and down-gradient from the release area during the fourth quarter of 2011 (MW-1 through MW-4). Elevated petroleum hydrocarbon concentrations in soil were observed during well installation. Consequently, two additional soil borings were completed to a depth of 20 feet bgs in the suspected source area (SB 11-1 and SB 11-2). Monitoring well locations are shown in Figure 2.

Boring logs for the Site monitoring wells indicate that the subsurface geology contains unconsolidated fine-grained sand, silt, and clay sediments. This general characteristic has been utilized in evaluating the historical and current LNAPL behavior. Ongoing monitoring and sampling of the four (4) Site monitoring wells listed above has been conducted on a quarterly basis following installation.

## 3. Groundwater Monitoring

This section describes the field and laboratory activities performed during the first quarter 2021 groundwater monitoring event. Quarterly monitoring activities were conducted on March 24, 2021, which included Site-wide groundwater gauging, LNAPL measurements, and groundwater sampling. Figure 2 illustrates the groundwater monitoring network (MW-1 through MW-4) utilized to perform these activities at the Site.



### 3.1 Groundwater and LNAPL Elevation Monitoring

Groundwater and LNAPL levels are measured in order to evaluate hydraulic characteristics and provide information regarding seasonal fluctuations of groundwater and LNAPL elevations at the Site. During the first quarter 2021, groundwater levels were measured at four (4) Site monitoring well locations (MW-1 through MW-4).

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 was subsequently converted to elevation (feet above mean sea level [AMSL]). Measured groundwater levels, LNAPL measurements, and calculated groundwater elevations are presented in Table 1.

A first quarter 2021 groundwater elevation contour map, included as Figure 3, indicates that the groundwater gradient at the Site trends to the west-northwest which is consistent with the previous three quarterly monitoring events, and with historical trends prior to second quarter 2016 at the Site. Although this is inconsistent with the trends between second quarter 2016 to first quarter 2019. It is our opinion that an unchecked QA/QC error was made during the data entry in the second quarter 2016 and was not fixed during subsequent reports, leading to an irregular hydraulic gradient direction at the Site. The corrected groundwater elevation ranges, average elevation change from the previous monitoring event, and the calculated hydraulic gradient at the Site are summarized in the table below.

**Summary of Measured Hydraulic Parameters**

	<b>First Quarter 2021 (3/24/2021)</b>
Maximum Elevation (Well ID)	3,177.42 ft (MW-3)
Minimum Elevation (Well ID)	3,177.13 ft (MW-1)
Average Change from Previous Monitoring Event	0.05 ft
Hydraulic Gradient / (Well IDs)	0.002 ft/ft (MW-3 to MW-1)

LNAPL was observed at MW-4 (0.23 ft) during the first quarter 2021, which is a decrease since the last measurable groundwater event in the fourth quarter 2020 (0.25 ft). Historically, the presence of LNAPL at this location has fluctuated since 2015.

### 3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from three (3) of the four (4) locations (MW-1 through MW-3). A minimum of three well casing volumes of groundwater were purged from each monitoring well prior to collection of groundwater samples. Due to the presence of LNAPL observed at MW-4, no groundwater sample was collected at this location.



Groundwater samples were collected using disposable polyethylene bailers, placed in clean laboratory supplied containers, 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 in Mount Juliet, Tennessee (Pace).

Water quality samples were submitted for analysis of benzene, toluene, ethylbenzene, and total xylenes (BTEX) by United States Environmental Protection Agency (USEPA) Method 8260B and chloride by USEPA Method 9056A.

Table 2 summarizes BTEX and chloride concentrations in groundwater samples collected during the reporting period. Historical laboratory analytical results up to and including the March 2021 event are provided in Appendix A and the laboratory analytical report for the first quarter 2021 event is included in Appendix B. The laboratory analytical results are also displayed on Figure 4.

First quarter 2021 field observations and analytical results for samples collected from MW-1 through MW-3 indicate the following:

- Benzene was detected in exceedance of the updated NMWQCC groundwater standard of 0.005 mg/L (effective 7/1/2020) in MW-1 (0.0386 mg/L, and 0.0323 mg/L [Duplicate]). Benzene was not detected above the NMWQCC groundwater standard or reported detection limit at MW-2 (0.000195 J mg/L) and MW-3 (0.000352 J mg/L).
- Toluene was not detected above the NMWQCC groundwater standard of 1.00 mg/L in any of the sampled Site monitoring wells.
- Ethylbenzene was not detected above the NMWQCC groundwater standard of 0.70 mg/L in any of the sampled Site monitoring wells.
- Total xylenes were not detected above the NMWQCC groundwater standard of 0.62 mg/L in any of the analyzed Site monitoring wells.
- Chloride was detected in exceedance of the NMWQCC secondary maximum contaminant level (SMCL) guideline of 250 mg/L at all sampled monitoring well locations with concentrations ranging from 410 mg/L at MW-3 to 1,860 mg/L at MW-2.

### 3.3 Data Quality Assurance / Quality Control

A trip blank and field duplicate sample (MW-1) was collected during the sampling event. The data were reviewed for compliance with the analytical method and the associated quality assurance/quality control (QA/QC) procedures. All samples were analyzed using the correct analytical methods and within the correct holding times. Chain of custody forms were in order and properly executed indicating that samples were received with no headspace. All data were reported using the correct method number and reporting units. QA/QC items of note for the first quarter 2021 include the following:

- The trip blank was fully in control, having no detection of target analytes.



- The parent sample collected from MW-1 and the associated duplicate sample exhibited Benzene concentrations of 0.0386 mg/L and 0.0323 mg/L, respectively, yielding a relative percent difference (RPD) of 17.77 percent (%) which is within the target range of 20%.
- Subsequent to collection of the first quarter 2021 groundwater samples, the sample transport coolers were properly packaged with ice and shipped to Pace laboratory in Mount Juliet, Tennessee with priority overnight shipping. All coolers were received within laboratory temperature specifications as well as Chain of Custody (COC) forms properly executed.

Based on the data review, the QA/QC assessment indicates that overall data precision and accuracy are within acceptable limits.

#### 4. Remediation Activities

Remediation activities conducted during the first quarter 2021 reporting period include vacuum enhanced fluid recovery (EFR) activities. EFR events were initiated in December 2014 and began on a routine frequency at monitoring wells MW-1 and MW-4. EFR events are scheduled to continue, pending observation of the effectiveness of the effort in addressing persistent free phase and dissolved phase petroleum hydrocarbons on-Site.

One first quarter 2021 EFR event was conducted at the site on March 24, 2021, which included application of high vacuum (utilizing a vacuum truck) at MW-1 and MW-4 through flexible hosing inserted into each well. The stingers were placed slightly below the current groundwater level to facilitate removal of groundwater, LNAPL, and vapors from the subsurface. Approximately 30 bbls (1260 gallons) of fluid was recovered during the first quarter 2021 EFR event.

A passive LNAPL skimmer was installed in MW-4 in an effort to collect and dispose of free-phase liquids in between groundwater sampling and EFR events. Between the fourth quarter 2020 and first quarter 2021 sampling and EFR events, the skimmer collected approximately 0.20 gallons of product. The passive LNAPL skimmer was reinstalled after the first quarter 2021 EFR event.

#### 5. Conclusions

Evaluation of the first quarter 2021 monitoring data and historical information provides the following general observations:

- Groundwater elevations at the Site indicated an overall increase compared to the levels that were observed during the fourth quarter 2020.
- LNAPL was observed at monitoring well MW-4 during the first quarter 2021. The presence of LNAPL at this location has historically fluctuated since 2015.
- BTEX concentrations were detected in exceedance of NMWQCC maximum allowable concentration standards in MW-1 (0.0386 mg/L, and 0.0323 mg/L [Duplicate]).
- Chloride concentrations were above the NMWQCC SMCL guideline at all sampled Site monitoring wells.



## 6. Recommendations

Based on evaluation of first quarter 2021 and historical Site monitoring results, recommendations for future activities include:

- Continue quarterly groundwater monitoring and sampling at the monitoring locations illustrated on Figure 2.
- Continue monitoring and evaluation of the passive LNAPL skimmer and recovery system.
- Continue quarterly EFR event(s) at monitoring wells MW-1 and MW-4 during the second quarter 2021.

Tables



**TABLE 1  
FIRST QUARTER 2021  
SUMMARY OF GROUNDWATER ELEVATION DATA  
BURTON FLATS BOOSTER STATION  
EDDY COUNTY, NEW MEXICO**

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (LNAPL) (feet)	Total Depth (feet)	TOC Elevation (feet amsl) (2)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event <sup>1</sup> (feet)
MW-1	6/19/2020	20.18			NM	3197.65	3177.47	-0.45
MW-1	9/15/2020	20.51			NM	3197.65	3177.14	-0.33
MW-1	12/11/2020	20.55			NM	3197.65	3177.10	-0.04
MW-1	3/24/2021	20.52			NM	3197.65	3177.13	0.03
MW-2	6/19/2020	22.49			NM	3200.00	3177.51	-0.40
MW-2	9/15/2020	22.84			NM	3200.00	3177.16	-0.35
MW-2	12/11/2020	22.80			NM	3200.00	3177.20	0.04
MW-2	3/24/2021	22.75			NM	3200.00	3177.25	0.05
MW-3	6/19/2020	22.98			NM	3200.84	3177.86	-0.28
MW-3	9/15/2020	23.38			NM	3200.84	3177.46	-0.40
MW-3	12/11/2020	23.45			NM	3200.84	3177.39	-0.07
MW-3	3/24/2021	23.42			NM	3200.84	3177.42	0.03
MW-4	6/19/2020	NM	23.20	NC	NM	3200.98	NC	NC
MW-4	9/15/2020	NM	24.65	NC	NM	3200.98	NC	NC
MW-4	12/11/2020	24.85	24.60	0.25	NM	3200.98	3176.33	NC
MW-4	3/24/2021	24.73	24.50	0.23	NM	3200.98	3176.43	0.10
Average change in groundwater elevation (12/11/20 to 3/24/21)								0.05

## 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.

2- The TOC elevation for MW-1 through MW-4 have been calculated based on a relative elevation re-survey conducted on 8/7/2019.

amsl = feet above mean sea level

TOC = top of casing

LNAPL - Light non-aqueous phase liquid

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)
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LNAPL relative density was calculated to be approximately 0.792 grams per cubic centimeter (g/cm <sup>3</sup> )
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NM = Not measured.

NC = Not calculated.

**TABLE 2**  
**FIRST QUARTER 2021**  
**SUMMARY OF BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER**  
**BURTON FLATS BOOSTER STATION**  
**EDDY 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	3/24/2021	<b>0.0386</b>	<0.00100	0.0224	0.00599	<b>786</b>	Duplicate Sample Collected
MW-1 (Duplicate)	3/24/2021	<b>0.0323</b>	<0.00100	0.0188	0.00456	<b>781</b>	
MW-2	3/24/2021	0.000195 J	<0.00100	<0.00100	<0.00300	<b>1,860</b>	
MW-3	3/24/2021	0.000352 J	0.000345 J	<0.00100	<0.00300	<b>410</b>	
MW-4	3/24/2021	LNAPL					LNAPL
Trip Blank	3/24/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	

## Notes:

**Bold red** values indicate an exceedance of the associated NMWQCC standard (Effective 7/1/2020) or, for chlorides, the secondary maximum contaminant level (SMC) which has been established as a guideline in the National Secondary Drinking Water Regulations.

NMWQCC = New Mexico Water Quality Control Commission

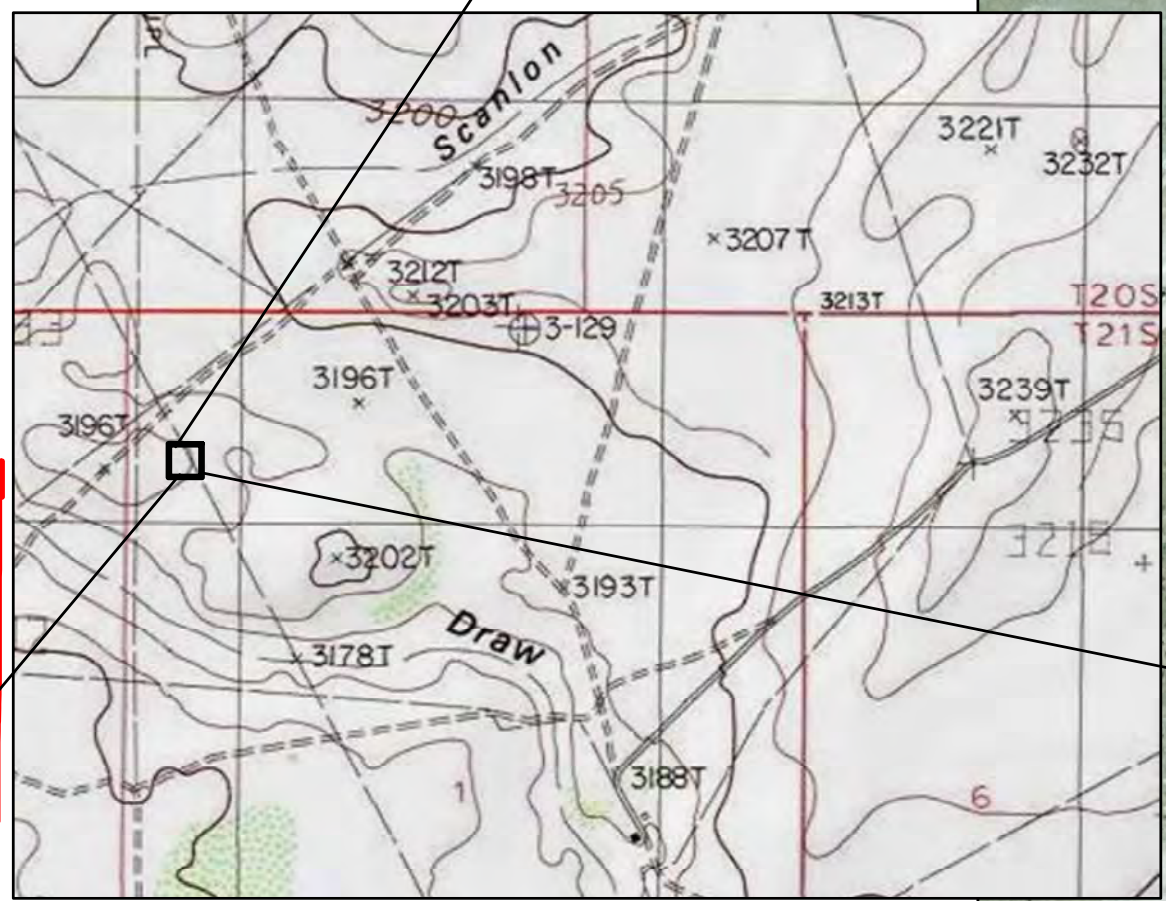
LNAPL = Light Non-Aqueous Phase Liquid

NA = Not Analyzed

J = The identification of the analyte is acceptable, the reported value is an estimate.

mg/L = milligrams per liter

## Figures



DATE:	April 2015
DESIGNED BY:	T. Johansen
DRAWN BY:	D. Arnold



**TASMAN**  
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Tasman Geosciences, LLC  
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Denver, CO 80221

**DCP Midstream**  
**Burton Flats Booster Station**  
Lots 4 and 5, Section 1, Township 21 South, Range 27 East  
Eddy County, New Mexico

Site Location  
Map

Figure  
1



DATE:	December 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	L. Martin



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**DCP Midstream**  
**Burton Flats Booster Station**  
Third Quarter 2020 Groundwater Monitoring  
Summary Report

Site Map with Monitoring  
Well Locations

Figure  
2



DATE:	April 2021
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts

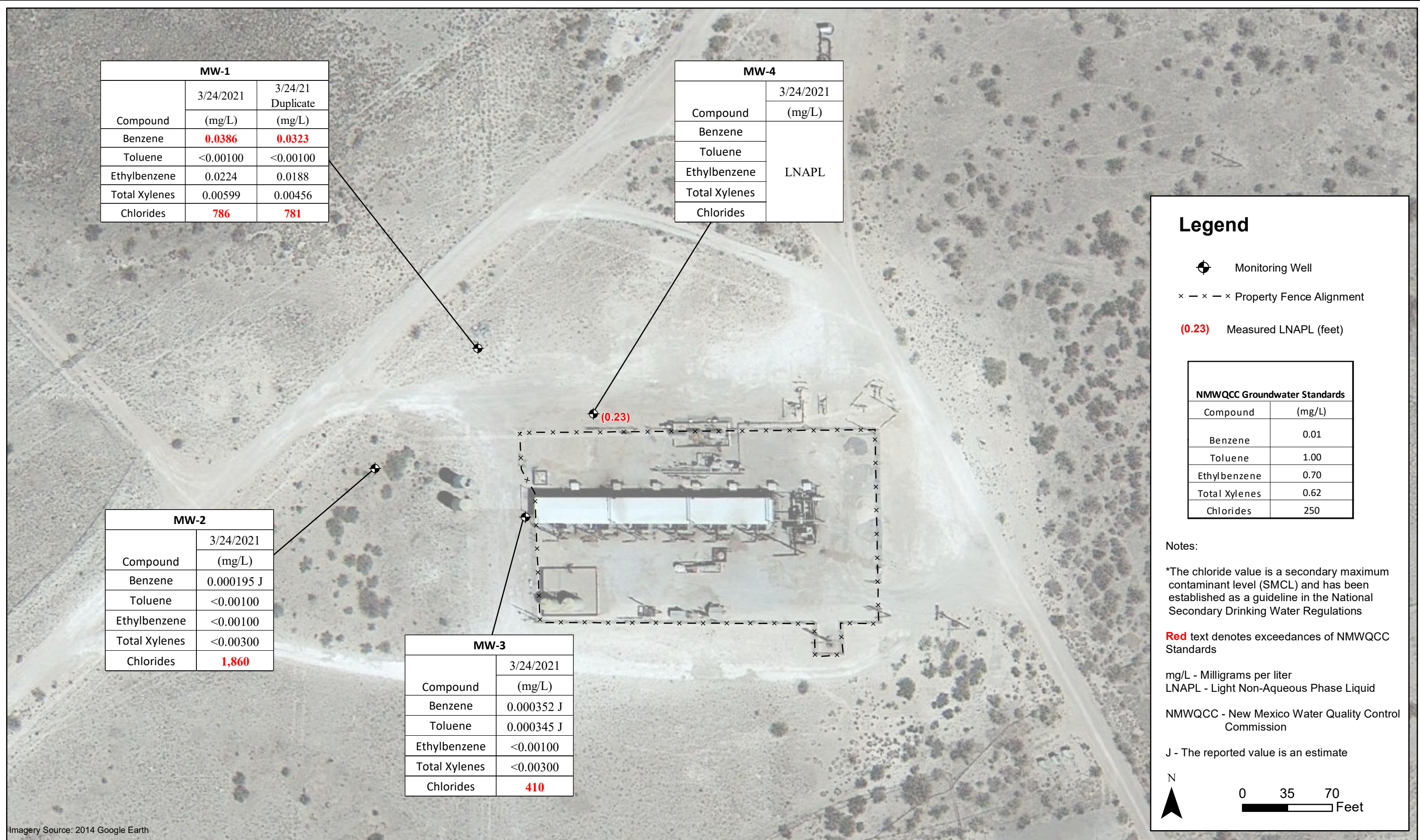


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**DCP Midstream  
Burton Flats Booster Station**  
First Quarter 2021 Groundwater Monitoring  
Summary Report

Groundwater Elevation  
Contour Map  
(March 24, 2021)

Figure  
3



Imagery Source: 2014 Google Earth

DATE: April 2021  
 DESIGNED BY: B. Humphrey  
 DRAWN BY: J. Clonts



**DCP Midstream**  
**Burton Flats Booster Station**  
 First Quarter 2021 Groundwater Monitoring  
 Summary Report

Analytical Results  
 Map  
 (March 24, 2021)

Figure  
 4

Appendix A  
Historical Analytical Results



**APPENDIX A  
HISTORICAL ANALYTICAL RESULTS  
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER  
BURTON FLATS BOOSTER STATION  
EDDY 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)		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	<b>250</b>	
MW-1	12/14/2011	<b>0.140</b>	0.0034	0.200	0.111	<b>665</b>	Duplicate sample collected
MW-1	4/26/2012	<b>0.153</b>	<0.001	0.229	0.0073	<b>584</b>	
MW-1	6/20/2012	<b>0.0967</b>	<0.001	0.284	0.0474	<b>651</b>	Duplicate sample collected
MW-1	9/26/2012	<b>0.0615</b>	<0.001	0.0803	0.0015	<b>590</b>	
MW-1	12/5/2012	<b>0.020</b>	<0.001	0.17	0.037	<b>599</b>	
MW-1	2/21/2013	0.0021	<0.001	0.0058	<0.003	<b>668</b>	Duplicate sample collected
MW-1	6/3/2013	0.0049	<0.001	0.0048	<0.001	<b>703</b>	Duplicate sample collected
MW-1	9/11/2013	LNAPL					
MW-1	12/3/2013	LNAPL					
MW-1	2/26/2014	LNAPL					
MW-1	6/2/2014	LNAPL					
MW-1	9/24/2014	Third Quarter 2014 Sampling Suspended - Regional Flooding					
MW-1	12/3/2014	LNAPL					
MW-1	2/27/2015	LNAPL					
MW-1	6/2/2015	LNAPL					
MW-1	8/31/2015	LNAPL					
MW-1	12/15/2015	LNAPL					
MW-1	3/21/2016	<b>0.0450</b>	<0.0010	0.080	0.010	<b>685</b>	
MW-1	6/20/2016	<b>0.082</b>	<0.0010	0.10	0.0072	<b>700</b>	
MW-1	9/26/2016	<b>0.035</b>	<0.0050	0.033	<0.015	<b>705</b>	
MW-1	12/19/2016	<b>0.051</b>	<0.0010	0.040	0.0035	<b>769</b>	
MW-1	3/6/2017	<b>0.044</b>	<0.0010	0.025	0.0012	<b>733</b>	Duplicate sample collected
MW-1 (Duplicate)	3/6/2017	<b>0.054</b>	<0.0010	0.035	0.0014	<b>740</b>	
MW-1	6/19/2017	<b>0.043</b>	<0.0010	0.020	<0.0010	<b>671</b>	
MW-1	9/27/2017	0.00867	<0.0010	0.00359	<0.0030	<b>649</b>	Duplicate Sample Collected
MW-1 (Duplicate)	9/27/2017	0.00958	<0.0010	0.00389	<0.0030	<b>608</b>	
MW-1	12/18/2017	<b>0.0204</b>	<0.0010	0.00522	<0.0030	<b>679</b>	Duplicate Sample Collected
MW-1 (Duplicate)	12/18/2017	<b>0.0179</b>	<0.0010	0.00502	<0.0030	<b>778</b>	
MW-1	3/12/2018	<b>0.0299</b>	<0.0010	0.0199	0.00114 J	<b>764</b>	Duplicate Sample Collected
MW-1 (Duplicate)	3/12/2018	<b>0.0399</b>	<0.0010	0.0230	<0.0030	<b>770</b>	
MW-1	6/25/2018	<b>0.0255</b>	<0.0010	0.0255	<0.0030	<b>623</b>	Duplicate Sample Collected
MW-1 (Duplicate)	6/25/2018	<b>0.0281</b>	<0.0010	0.0277	<0.0030	<b>632</b>	
MW-1	9/17/2018	<b>0.0115</b>	<0.0010	0.0063	<0.0030	<b>668</b>	Duplicate Sample Collected
MW-1 (Duplicate)	9/17/2018	<b>0.0105</b>	<0.0010	0.0060	<0.0030	<b>641</b>	
MW-1	12/10/2018	0.000641 J	<0.0010	0.00115	<0.0030	<b>1,180</b>	Duplicate Sample Collected
MW-1 (Duplicate)	12/10/2018	0.000712 J	<0.0010	0.00126	<0.0030	<b>1,230</b>	
MW-1	3/21/2019	0.0018	<0.0010	0.00159	<0.0030	<b>667</b>	Duplicate Sample Collected
MW-1 (Duplicate)	3/21/2019	0.0026	<0.0010	0.00144	<0.0030	<b>680</b>	
MW-1	6/13/2019	<b>0.0316</b>	<0.0010	0.0232	<0.0030	<b>774</b>	Duplicate Sample Collected
MW-1 (Duplicate)	6/13/2019	<b>0.0294</b>	<0.0010	0.0216	<0.0030	<b>768</b>	
MW-1	9/17/2019	0.00456	<0.0010	0.00219	<0.0030	<b>654</b>	Duplicate Sample Collected
MW-1 (Duplicate)	9/17/2019	0.0059	<0.0010	0.00272	<0.0030	<b>768</b>	
MW-1	12/9/2019	0.00713	<0.0010	0.00789	0.00161 J	<b>681</b>	Duplicate Sample Collected
MW-1 (Duplicate)	12/9/2019	0.00772	<0.0010	0.00827	0.00166 J	<b>684</b>	
MW-1	6/19/2020	<b>0.02780</b>	<0.0010	0.01900	0.00160 J	<b>908</b>	Duplicate Sample Collected
MW-1 (Duplicate)	6/19/2020	<b>0.02770</b>	<0.0010	0.01870	0.00139 J	<b>927</b>	
MW-1	9/15/2020	<b>0.03230</b>	<0.00100	0.01110	0.000948 J	<b>771</b>	Duplicate Sample Collected
MW-1 (Duplicate)	9/15/2020	<b>0.03370</b>	<0.00100	0.01260	0.00111 J	<b>751</b>	
MW-1	12/11/2020	<b>0.0439</b>	<0.00100	0.0247	0.00770	<b>743</b>	Duplicate Sample Collected
MW-1 (Duplicate)	12/11/2020	<b>0.0445</b>	<0.00100	0.0248	0.00769	<b>734</b>	

**APPENDIX A  
HISTORICAL ANALYTICAL RESULTS  
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER  
BURTON FLATS BOOSTER STATION  
EDDY 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)		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	<b>250</b>		
MW-1	3/24/2021	<b>0.0386</b>	<0.00100	0.0224	0.00599	<b>786</b>	Duplicate Sample Collected	
MW-1 (Duplicate)	3/24/2021	<b>0.0323</b>	<0.00100	0.0188	0.00456	<b>781</b>		
MW-2	12/14/2011	<0.001	<0.001	<0.001	<0.003	<b>1,170</b>		
MW-2	4/26/2012	<0.001	<0.001	<0.001	<0.003	<b>1,040</b>		
MW-2	6/20/2012	<0.001	<0.001	<0.001	<0.003	<b>1,150</b>		
MW-2	9/26/2012	<0.001	<0.001	<0.001	<0.003	<b>1,130</b>		
MW-2	12/5/2012	<0.001	<0.001	<0.001	<0.003	<b>1,120</b>	Duplicate sample collected	
MW-2	2/21/2013	<0.001	<0.001	<0.001	<0.003	<b>1,250</b>		
MW-2	6/3/2013	<0.001	<0.001	<0.001	<0.001	<b>1,150</b>		
MW-2	9/11/2013	<0.001	<0.001	<0.001	<0.001	<b>1,410</b>	Duplicate sample collected	
MW-2	12/3/2013	<0.001	<0.001	<0.001	<0.001	<b>1,120</b>	Duplicate sample collected	
MW-2	2/26/2014	<0.001	<0.001	<0.001	<0.001	<b>1,220</b>	Duplicate sample collected	
MW-2 (Duplicate)	2/26/2014	<0.001	<0.001	<0.001	<0.001	<b>1,270</b>		
MW-2	6/2/2014	<0.001	<0.001	<0.001	<0.001	<b>1,270</b>	Duplicate sample collected	
MW-2 (Duplicate)	6/2/2014	<0.001	<0.001	<0.001	<0.001	<b>1,290</b>		
MW-2	9/24/2014	Third Quarter 2014 Sampling Suspended - Regional Flooding						
MW-2	12/3/2014	<0.001	<0.001	<0.001	<0.001	<b>1,300</b>	Duplicate sample collected	
MW-2 (Duplicate)	12/3/2014	<0.001	<0.001	<0.001	<0.001	<b>1,410</b>		
MW-2	2/27/2015	<0.001	<0.001	<0.001	<0.003	<b>1,440</b>	Duplicate sample collected	
MW-2 (Duplicate)	2/27/2015	<0.001	<0.001	<0.001	<0.003	<b>1,440</b>		
MW-2	6/2/2015	<0.001	<0.001	<0.001	<0.003	<b>1,650</b>	Duplicate sample collected	
MW-2 (Duplicate)	6/2/2015	<0.001	<0.001	<0.001	<0.003	<b>1,810</b>		
MW-2	8/31/2015	<0.001	<0.001	<0.001	<0.003	<b>1,420</b>	Duplicate sample collected	
MW-2 (Duplicate)	8/31/2015	<0.001	<0.001	<0.001	<0.003	<b>1,440</b>		
MW-2	12/15/2015	<0.001	<0.001	<0.001	<0.003	<b>1,350</b>	Duplicate sample collected	
MW-2 (Duplicate)	12/15/2015	<0.001	<0.001	<0.001	<0.003	<b>1,350</b>		
MW-2	3/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,300</b>		
MW-2	6/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,280</b>		
MW-2	9/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,310</b>		
MW-2	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,560</b>	Duplicate sample collected	
MW-2 (Duplicate)	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,350</b>		
MW-2	3/6/2017	<0.0010	<0.0010	<0.0010	<0.0010	<b>1,210</b>		
MW-2	6/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	<b>1,480</b>		
MW-2	9/27/2017	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,530</b>		
MW-2	12/18/2017	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,300</b>		
MW-2	3/12/2018	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,290</b>		
MW-2	6/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,490</b>		
MW-2	9/17/2018	<0.0010	<0.0010	<0.0010	<0.0030	<b>2,130</b>		
MW-2	12/10/2018	<0.0010	<0.0010	<0.0010	<0.0030	<b>3,780</b>		
MW-2	3/21/2019	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,380</b>		
MW-2	6/13/2019	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,860</b>		
MW-2	9/17/2019	<0.0010	<0.0010	<0.0010	<0.0030	<b>2,380</b>		
MW-2	12/9/2019	<0.0010	<0.0010	<0.0010	<0.0030	<b>1,870</b>		
MW-2	6/19/2020	<0.0010	<0.0010	<0.0010	<0.0030	<b>2,220</b>		
MW-2	9/15/2020	<0.0010	<0.0010	<0.0010	<0.0030	<b>2,650</b>		
MW-2	12/11/2020	<0.00100	<0.00100	<0.00100	<0.00300	<b>2,160</b>		
MW-2	3/24/2021	0.000195 J	<0.00100	<0.00100	<0.00300	<b>1,860</b>		

**APPENDIX A  
HISTORICAL ANALYTICAL RESULTS  
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER  
BURTON FLATS BOOSTER STATION  
EDDY COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Chlorides (mg/l)	Comments	
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	<b>250</b>		
MW-3	12/14/2011	<0.001	<0.001	<0.001	<0.003	<b>426</b>		
MW-3	4/26/2012	<0.001	<0.001	<0.001	<0.003	<b>406</b>	Duplicate sample collected	
MW-3	6/20/2012	<0.001	<0.001	<0.001	<0.003	<b>435</b>		
MW-3	9/26/2012	<0.001	<0.001	0.00057	<0.003	<b>447</b>	Duplicate sample collected	
MW-3	12/5/2012	<0.001	<0.001	<0.001	<0.003	<b>444</b>		
MW-3	2/21/2013	<0.001	<0.001	<0.001	<0.003	<b>503</b>		
MW-3	6/12/2013	<0.001	<0.001	<0.001	<0.001	<b>474</b>		
MW-3	9/11/2013	<0.001	<0.001	<0.001	<0.001	<b>589</b>		
MW-3	12/3/2013	<0.001	<0.001	<0.001	<0.001	<b>432</b>		
MW-3	2/26/2014	<0.001	<0.001	<0.001	<0.001	<b>484</b>		
MW-3	6/2/2014	<0.001	<0.001	<0.001	<0.001	<b>519</b>		
MW-3	9/24/2014	Third Quarter 2014 Sampling Suspended - Regional Flooding						
MW-3	12/3/2014	<0.001	<0.001	<0.001	<0.001	<b>294</b>		
MW-3	2/27/2015	<0.001	<0.001	<0.001	<0.003	<b>301</b>		
MW-3	6/2/2015	<0.001	<0.001	<0.001	<0.003	<b>384</b>		
MW-3	8/31/2015	<0.001	<0.001	<0.001	<0.003	<b>386</b>		
MW-3	12/15/2015	<0.001	<0.001	<0.001	<0.003	<b>568</b>		
MW-3	3/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>484</b>	Duplicate sample collected	
MW-3 (Duplicate)	3/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>526</b>		
MW-3	6/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>414</b>	Duplicate sample collected	
MW-3 (Duplicate)	6/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>383</b>		
MW-3	9/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>320</b>	Duplicate sample collected	
MW-3 (Duplicate)	9/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>324</b>		
MW-3	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0030	<b>285</b>		
MW-3	3/6/2017	<0.0010	<0.0010	<0.0010	<0.0010	<b>466</b>		
MW-3	6/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	247		
MW-3 (Duplicate)	6/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	<b>251</b>		
MW-3	9/27/2017	<0.0010	<0.0010	<0.0010	<0.0030	<b>269</b>		
MW-3	12/18/2017	<0.0010	<0.0010	<0.0010	<0.0030	<b>310</b>		
MW-3	3/12/2018	<0.0010	<0.0010	<0.0010	<0.0030	<b>253</b>		
MW-3	6/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	<b>258</b>		
MW-3	9/17/2018	<0.0010	<0.0010	<0.0010	<0.0030	<b>277</b>		
MW-3	12/10/2018	<0.0010	<0.0010	<0.0010	<0.0030	<b>429</b>		
MW-3	3/21/2019	<0.0010	<0.0010	<0.0010	<0.0030	<b>309</b>		
MW-3	6/13/2019	<0.0010	<0.0010	<0.0010	<0.0030	<b>369</b>		
MW-3	9/17/2019	0.00426	<0.0010	<0.0010	<0.0030	<b>333</b>		
MW-3	12/9/2019	0.00216	<0.0010	<0.0010	<0.0030	<b>339</b>		
MW-3	6/19/2020	0.000240 J	<0.0010	<0.0010	<0.0030	<b>372</b>		
MW-3	9/15/2020	0.000102 J	<0.0010	<0.0010	<0.0030	<b>403</b>		
MW-3	12/11/2020	<0.00100	<0.00100	<0.00100	<0.00300	<b>420</b>		
MW-3	3/24/2021	0.000352 J	0.000345 J	<0.00100	<0.00300	<b>410</b>		

**APPENDIX A  
HISTORICAL ANALYTICAL RESULTS  
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER  
BURTON FLATS BOOSTER STATION  
EDDY 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	4/26/2012						LNAPL	
MW-4	6/20/2012						LNAPL	
MW-4	9/26/2012						LNAPL	
MW-4	12/5/2012						LNAPL	
MW-4	2/21/2013						LNAPL	
MW-4	6/3/2013						LNAPL	
MW-4	9/11/2013						LNAPL	
MW-4	12/3/2013						LNAPL	
MW-4	2/26/2014						LNAPL	
MW-4	6/2/2014						LNAPL	
MW-4	9/24/2014	Third Quarter 2014 Sampling Suspended - Regional Flooding						
MW-4	12/3/2014						LNAPL	
MW-4	2/27/2015						LNAPL	
MW-4	6/2/2015						LNAPL	
MW-4	8/31/2015						LNAPL	
MW-4	12/15/2015						LNAPL	
MW-4	3/21/2016	0.58	0.17	0.48	0.90	10,700		
MW-4	6/20/2016	0.46	0.16	0.64	1.2	9,700		
MW-4	9/26/2016	0.51	0.14	0.54	1.0	7,780		
MW-4	12/19/2016	0.37	0.12	0.56	0.99	7,530		
MW-4	3/6/2017	0.37	0.086	0.49	0.8	6,370		
MW-4	6/19/2017	0.14	0.035	0.46	0.50	6,420	LNAPL (0.30 feet)	
MW-4	9/27/2017	0.104	0.0718	0.706	1.12	7,520	LNAPL (0.24 feet)	
MW-4	12/18/2017	0.433	0.0979	0.570	1.12	6,450	LNAPL (0.10 feet)	
MW-4	3/12/2018	0.293	0.0641	0.319	0.627	6,160		
MW-4	6/25/2018						LNAPL (0.18 feet)	
MW-4	9/17/2018						LNAPL (0.5 feet)	
MW-4	12/10/2018						LNAPL (0.59 feet)	
MW-4	3/21/2019						LNAPL (0.65 feet)	
MW-4	6/13/2019						LNAPL (0.55 feet)	
MW-4	9/17/2019						LNAPL (0.23 feet)	
MW-4	12/9/2019						LNAPL (0.39 feet)	
MW-4	6/19/2020						LNAPL (0.45 feet)	
MW-4	9/15/2020						LNAPL (0.20 feet)	
MW-4	12/11/2020						LNAPL (0.25 feet)	
MW-4	3/24/2021						LNAPL	

**APPENDIX A  
HISTORICAL ANALYTICAL RESULTS  
BTEX AND CHLORIDE CONCENTRATIONS IN GROUNDWATER  
BURTON FLATS BOOSTER STATION  
EDDY COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Chlorides (mg/l)	Comments
<b>NMWQCC Groundwater Standards (mg/L)</b>		<b>0.005</b>	<b>1.00</b>	<b>0.70</b>	<b>0.62</b>	<b>250</b>	
Trip Blank	6/2/2014	<0.001	<0.001	<0.001	<0.001	NA	
Trip Blank	12/3/2014	<0.001	<0.001	<0.001	<0.001	NA	
Trip Blank	2/27/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	6/2/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	8/31/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	12/15/2015	<0.001	<0.001	<0.001	<0.003	NA	
Trip Blank	3/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	6/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	9/26/2016	<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	3/6/2017	<0.0010	<0.0010	<0.0010	<0.0010	NA	
Trip Blank	6/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	NA	
Trip Blank	9/27/2017	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/18/2017	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	3/12/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	3/12/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	6/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	9/17/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/10/2018	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	3/21/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	6/13/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	9/17/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	12/9/2019	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	6/19/2020	<0.0010	<0.0010	<0.0010	<0.0030	NA	
Trip Blank	9/15/2020	0.000104 J	<0.0010	<0.0010	0.000235 J	NA	
Trip Blank	12/11/2020	<0.00100	<0.00100	<0.00100	<0.00300	NA	
Trip Blank	3/24/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	

Notes:

**Bold red** values indicate an exceedance of the associated NMWQCC standard or, for chlorides, the secondary maximum contaminant level (SMCL) which has been established as a guideline in the National Secondary Drinking Water Regulations.

NMWQCC = New Mexico Water Quality Control Commission

LNAPL = Light Non-Aqueous Phase Liquid

NA = Not Analyzed

J = The identification of the analyte is acceptable, the reported value is an estimate.

mg/L = milligrams per liter

Appendix B

Laboratory Analytical Report

- Pace Analytical Report #: L1330633



# ANALYTICAL REPORT

April 01, 2021

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

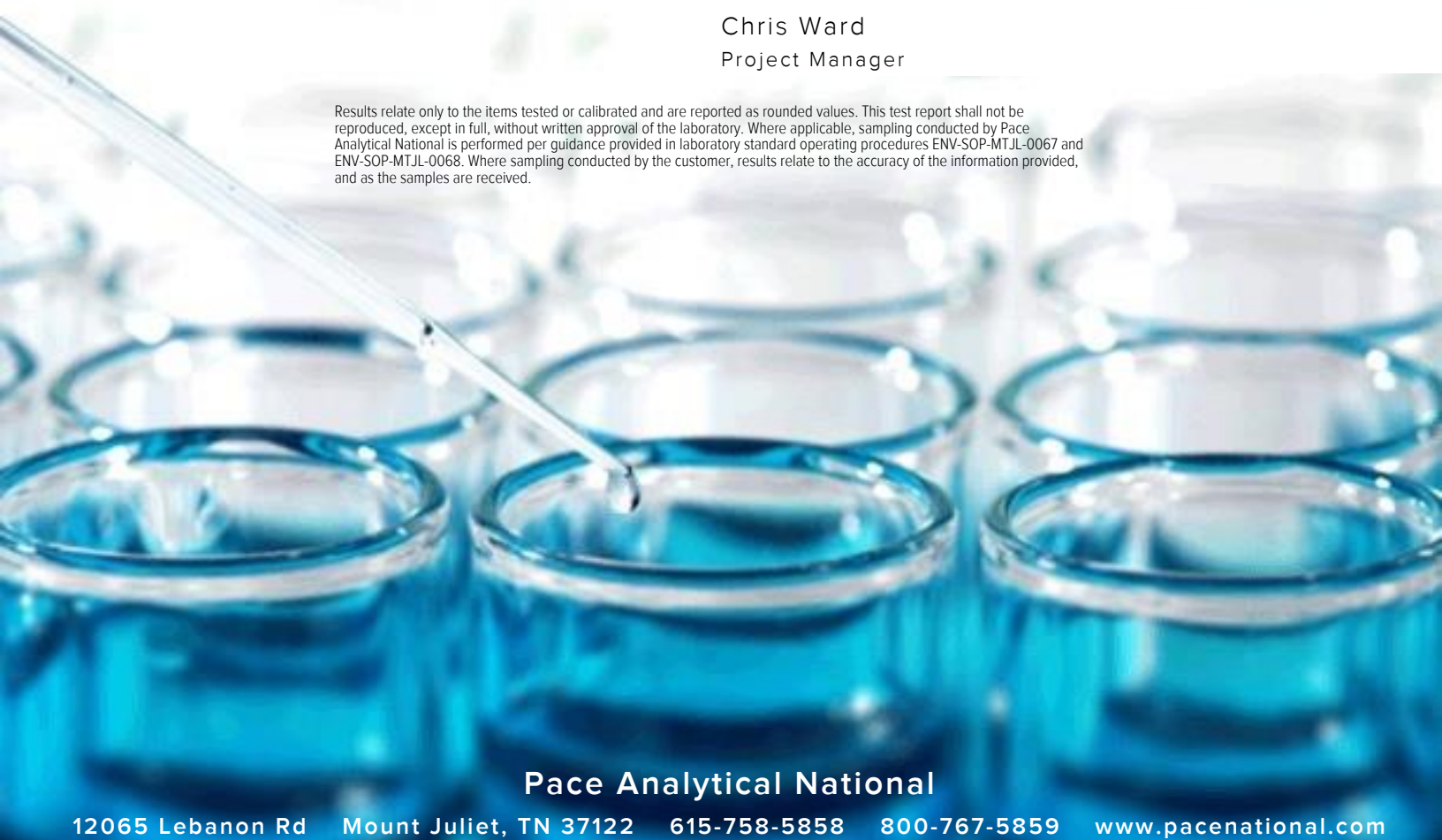
## DCP Midstream - Tasman

Sample Delivery Group: L1330633  
 Samples Received: 03/25/2021  
 Project Number:  
 Description: Burton Flats Booster Station  
 Report To: Brian Humphrey  
 2620 W. Marland Blvd  
 Hobbs, NM 88240

Entire Report Reviewed By:










Chris Ward  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

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

<b>Cp: Cover Page</b>	<b>1</b>	
<b>Tc: Table of Contents</b>	<b>2</b>	
<b>Ss: Sample Summary</b>	<b>3</b>	
<b>Cn: Case Narrative</b>	<b>4</b>	
<b>Sr: Sample Results</b>	<b>5</b>	
<b>MW-1 L1330633-01</b>	<b>5</b>	
<b>MW-2 L1330633-02</b>	<b>6</b>	
<b>MW-3 L1330633-03</b>	<b>7</b>	
<b>DUPLICATE L1330633-04</b>	<b>8</b>	
<b>TRIP BLANK L1330633-05</b>	<b>9</b>	
<b>Qc: Quality Control Summary</b>	<b>10</b>	
<b>Wet Chemistry by Method 9056A</b>	<b>10</b>	
<b>Volatile Organic Compounds (GC/MS) by Method 8260B</b>	<b>11</b>	
<b>Gl: Glossary of Terms</b>	<b>12</b>	
<b>Al: Accreditations &amp; Locations</b>	<b>13</b>	
<b>Sc: Sample Chain of Custody</b>	<b>14</b>	



MW-1 L1330633-01 GW

Collected by  
Becky Griffin

Collected date/time  
03/24/21 07:00

Received date/time  
03/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1641897	20	03/29/21 05:27	03/29/21 05:27	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1641108	1	03/27/21 11:43	03/27/21 11:43	DWR	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

MW-2 L1330633-02 GW

Collected by  
Becky Griffin

Collected date/time  
03/24/21 07:25

Received date/time  
03/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1641897	100	03/29/21 05:40	03/29/21 05:40	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1641108	1	03/27/21 12:03	03/27/21 12:03	DWR	Mt. Juliet, TN

MW-3 L1330633-03 GW

Collected by  
Becky Griffin

Collected date/time  
03/24/21 07:55

Received date/time  
03/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1641897	10	03/29/21 05:53	03/29/21 05:53	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1641108	1	03/27/21 12:24	03/27/21 12:24	DWR	Mt. Juliet, TN

DUPLICATE L1330633-04 GW

Collected by  
Becky Griffin

Collected date/time  
03/24/21 00:00

Received date/time  
03/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1641897	20	03/29/21 06:06	03/29/21 06:06	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1641108	1	03/27/21 12:44	03/27/21 12:44	DWR	Mt. Juliet, TN

TRIP BLANK L1330633-05 GW

Collected by  
Becky Griffin

Collected date/time  
03/24/21 14:00

Received date/time  
03/25/21 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1641108	1	03/27/21 10:43	03/27/21 10:43	DWR	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  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc

Collected date/time: 03/24/21 07:00

L1330633

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	786		7.58	20.0	20	03/29/2021 05:27	<a href="#">WG1641897</a>

1 Cp

2 Tc

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	0.0386		0.0000941	0.00100	1	03/27/2021 11:43	<a href="#">WG1641108</a>
Toluene	U		0.000278	0.00100	1	03/27/2021 11:43	<a href="#">WG1641108</a>
Ethylbenzene	0.0224		0.000137	0.00100	1	03/27/2021 11:43	<a href="#">WG1641108</a>
Total Xylenes	0.00599		0.000174	0.00300	1	03/27/2021 11:43	<a href="#">WG1641108</a>
(S) Toluene-d8	111			80.0-120		03/27/2021 11:43	<a href="#">WG1641108</a>
(S) 4-Bromofluorobenzene	99.9			77.0-126		03/27/2021 11:43	<a href="#">WG1641108</a>
(S) 1,2-Dichloroethane-d4	90.2			70.0-130		03/27/2021 11:43	<a href="#">WG1641108</a>

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/24/21 07:25

L1330633

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	1860		37.9	100	100	03/29/2021 05:40	<a href="#">WG1641897</a>

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	0.000195	J	0.0000941	0.00100	1	03/27/2021 12:03	<a href="#">WG1641108</a>
Toluene	U		0.000278	0.00100	1	03/27/2021 12:03	<a href="#">WG1641108</a>
Ethylbenzene	U		0.000137	0.00100	1	03/27/2021 12:03	<a href="#">WG1641108</a>
Total Xylenes	U		0.000174	0.00300	1	03/27/2021 12:03	<a href="#">WG1641108</a>
(S) Toluene-d8	114			80.0-120		03/27/2021 12:03	<a href="#">WG1641108</a>
(S) 4-Bromofluorobenzene	103			77.0-126		03/27/2021 12:03	<a href="#">WG1641108</a>
(S) 1,2-Dichloroethane-d4	98.4			70.0-130		03/27/2021 12:03	<a href="#">WG1641108</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date/time: 03/24/21 07:55

L1330633

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	410		3.79	10.0	10	03/29/2021 05:53	<a href="#">WG1641897</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	0.000352	J	0.0000941	0.00100	1	03/27/2021 12:24	<a href="#">WG1641108</a>
Toluene	0.000345	J	0.000278	0.00100	1	03/27/2021 12:24	<a href="#">WG1641108</a>
Ethylbenzene	U		0.000137	0.00100	1	03/27/2021 12:24	<a href="#">WG1641108</a>
Total Xylenes	U		0.000174	0.00300	1	03/27/2021 12:24	<a href="#">WG1641108</a>
(S) Toluene-d8	115			80.0-120		03/27/2021 12:24	<a href="#">WG1641108</a>
(S) 4-Bromofluorobenzene	103			77.0-126		03/27/2021 12:24	<a href="#">WG1641108</a>
(S) 1,2-Dichloroethane-d4	89.8			70.0-130		03/27/2021 12:24	<a href="#">WG1641108</a>

Collected date/time: 03/24/21 00:00

L1330633

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	781		7.58	20.0	20	03/29/2021 06:06	<a href="#">WG1641897</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	0.0323		0.0000941	0.00100	1	03/27/2021 12:44	<a href="#">WG1641108</a>
Toluene	U		0.000278	0.00100	1	03/27/2021 12:44	<a href="#">WG1641108</a>
Ethylbenzene	0.0188		0.000137	0.00100	1	03/27/2021 12:44	<a href="#">WG1641108</a>
Total Xylenes	0.00456		0.000174	0.00300	1	03/27/2021 12:44	<a href="#">WG1641108</a>
(S) Toluene-d8	112			80.0-120		03/27/2021 12:44	<a href="#">WG1641108</a>
(S) 4-Bromofluorobenzene	101			77.0-126		03/27/2021 12:44	<a href="#">WG1641108</a>
(S) 1,2-Dichloroethane-d4	93.6			70.0-130		03/27/2021 12:44	<a href="#">WG1641108</a>

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

Collected date/time: 03/24/21 14:00

L1330633

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	03/27/2021 10:43	<a href="#">WG1641108</a>
Toluene	U		0.000278	0.00100	1	03/27/2021 10:43	<a href="#">WG1641108</a>
Ethylbenzene	U		0.000137	0.00100	1	03/27/2021 10:43	<a href="#">WG1641108</a>
Total Xylenes	U		0.000174	0.00300	1	03/27/2021 10:43	<a href="#">WG1641108</a>
(S) Toluene-d8	121	<u>J1</u>		80.0-120		03/27/2021 10:43	<a href="#">WG1641108</a>
(S) 4-Bromofluorobenzene	96.3			77.0-126		03/27/2021 10:43	<a href="#">WG1641108</a>
(S) 1,2-Dichloroethane-d4	71.0			70.0-130		03/27/2021 10:43	<a href="#">WG1641108</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Wet Chemistry by Method 9056A

[L1330633-01,02,03,04](#)

Method Blank (MB)

(MB) R3635953-1 03/28/21 23:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
Chloride	U		0.379	1.00

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

L1330519-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1330519-05 03/29/21 02:11 • (DUP) R3635953-3 03/29/21 02:24

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	U	U	1	0.000		15

L1330769-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1330769-03 03/29/21 07:50 • (DUP) R3635953-7 03/29/21 08:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	38.5	38.5	1	0.0556		15

Laboratory Control Sample (LCS)

(LCS) R3635953-2 03/28/21 23:26

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	39.8	99.6	80.0-120	

L1330519-05 Original Sample (OS) • Matrix Spike (MS)

(OS) L1330519-05 03/29/21 02:11 • (MS) R3635953-4 03/29/21 02:37

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	50.0	U	49.5	99.1	1	80.0-120	

L1330769-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1330769-02 03/29/21 07:11 • (MS) R3635953-5 03/29/21 07:24 • (MSD) R3635953-6 03/29/21 07:37

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Chloride	50.0	38.6	88.3	88.3	99.4	99.5	1	80.0-120			0.0374	15



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

[L1330633-01,02,03,04,05](#)

Method Blank (MB)

(MB) R3636761-2 03/27/21 09:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	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	116			80.0-120
(S) 4-Bromofluorobenzene	101			77.0-126
(S) 1,2-Dichloroethane-d4	93.3			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3636761-1 03/27/21 08:40

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.00500	0.00441	88.2	70.0-123	
Ethylbenzene	0.00500	0.00502	100	79.0-123	
Toluene	0.00500	0.00496	99.2	79.0-120	
Xylenes, Total	0.0150	0.0144	96.0	79.0-123	
(S) Toluene-d8			115	80.0-120	
(S) 4-Bromofluorobenzene			101	77.0-126	
(S) 1,2-Dichloroethane-d4			94.1	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

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.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

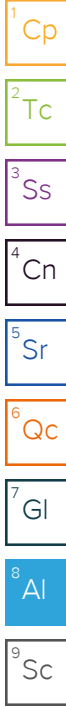
7 GI

8 AI

9 Sc

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 <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	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 <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	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 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		



<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> 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: <b>DCP Midstream - Tasman</b>  2620 W. Marland Blvd Hobbs, NM 88240			Billing Information: <b>Steve Weathers</b> 370 17th St, Ste 2500 Denver, CO 80202			Fres Chk	Analysis / Container / Preservative										Chain of Custody Page ___ of ___				
Report to: <b>Brian Humphrey</b>			Email To: knorman@tasman-geo.com; bhumphrey@tasman-geo.com														 12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <a href="https://info.pacelabs.com/hubfs/pas-standard-terms.pdf">https://info.pacelabs.com/hubfs/pas-standard-terms.pdf</a>				
Project Description: <b>Burton Flats Booster Station</b>			City/State Collected:			Please Circle: PT MT CT ET													12065 Lebanon Road Mt Juliet, TN 37122 Phone: 615-758-5858 Alt: 800-767-5859 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <a href="https://info.pacelabs.com/hubfs/pas-standard-terms.pdf">https://info.pacelabs.com/hubfs/pas-standard-terms.pdf</a>		
Phone: 720-218-4003		Client Project #		Lab Project # <b>DCPTASMAN-BURTONFLAT</b>		Chloride 125mlHDPE-NoPres V8260BTEX 40mlAmb-HCl										11330633 <b>B026</b>					
Collected by (print): <b>BECKY GIFFON</b>		Site/Facility ID #		P.O. # <b>0000524217</b>												Acctnum: <b>DCPTASMAN</b>					
Collected by (signature): <i>Becky Giffon</i>		<b>Rush?</b> (Lab MUST Be Notified) ___ Same Day ___ Five Day ___ Next Day ___ 5 Day (Rad Only) ___ Two Day ___ 10 Day (Rad Only) ___ Three Day		Quote #												Template: <b>T127771</b>					
Immediately Packed on Ice N ___ Y ___		Date Results Needed		No. of Cntrs												Prelogin: <b>P833759</b>					
Sample ID		Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs											PM: 824 - Chris Ward PB: <i>08/31/07</i> Shipped Via: <b>FedEx Ground</b>			
MW-1			GW		3-24-21	0700	4	X	X											Remarks Sample # (lab only)	
MW-2			GW		3-24-21	0725	4	X	X											-01	
MW-3			GW		3-24-21	0755	4	X	X											-02	
MW-4			GW																	-03	
DUPLICATE			GW		3-24-21		4	X	X											-04	
TRIP BLANK			GW		3-24-21	1400														-05	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water OT - Other			Remarks:			pH _____ Temp _____ Flow _____ Other _____													Sample Receipt Checklist COC Seal Present/Intact: ___ NP ___ 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		
Samples returned via: ___ UPS ___ FedEx ___ Courier			Tracking # <b>9517 5767 4068</b>																		
Relinquished by: (Signature) <i>Becky Giffon</i>		Date: <b>3-24-21</b>	Time: <b>1400</b>	Received by: (Signature)			Trip Blank Received: Yes/No <b>1</b> HCl/MeOH TBR														
Relinquished by: (Signature) <i>Becky Giffon</i>		Date:	Time:	Received by: (Signature)			Temp: <b>17.2</b> °C Bottles Received: <b>17</b>													If preservation required by Login: Date/Time	
Relinquished by: (Signature)		Date:	Time:	Received for lab by: (Signature) <b>S.P.</b>			Date: <b>3/25/2021</b> Time: <b>0900</b>													Hold: Condition: NCF / (OK)	

L1330633 DCPTASMAN NCF HM

R5

Time estimate: oh Time spent: oh

Members

- Hailey Melson (responsible)
- Chris Ward

- 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
- Client informed by Email
- Client informed by Voicemail
- Date/Time: \_\_\_\_\_
- PM initials: \_\_\_\_\_
- Client Contact: \_\_\_\_\_

Comments

*Hailey Melson*  
 Trip blank not marked for analysis. Logged per P# for V8260BTEX  
 25 March 2021 2:04 PM

*Chris Ward*  
 Please log per P#  
 25 March 2021 2:54 PM

**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 38426

**CONDITIONS**

Operator: DCP OPERATING COMPANY, LP 370 17th Street, Suite 2500 Denver, CO 80202	OGRID: 36785
	Action Number: 38426
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

**CONDITIONS**

Created By	Condition	Condition Date
nvez	Review of Second Quarter 2021 Groundwater Monitoring and Activities Summary Report: Content satisfactory 1. Follow recommendations stated within 2Q 2021 Groundwater Monitoring and Activities Summary Report. a. Continue quarterly groundwater monitoring and sampling at the monitoring locations illustrated on Figure 2 b. Continue monitoring and evaluation of the passive LNAPL skimmer and recovery system c. Continue quarterly EFR event(s) at monitoring wells MW-1 and MW-4 during the third quarter 2021	12/29/2021