

First Quarter 2022 Groundwater Monitoring and Activities Summary Report

Burton Flats Booster Station
Eddy County, New Mexico
#2R799
Incident # nMLB1004239132

Prepared for:



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April 26, 2022



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1. Introduction

This report summarizes groundwater monitoring and remediation activities conducted during the first quarter 2022 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 23, 2022.

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 2022 groundwater monitoring event. Quarterly monitoring activities were conducted on March 23, 2022, 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 2022, 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 2022 groundwater elevation contour map, included as Figure 3, indicates that the groundwater gradient at the Site trends to the northwest which is consistent with the previous four 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 suspected 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

	First Quarter 2022 (3/23/2022)
Maximum Elevation (Well ID)	3,177.30 ft (MW-3)
Minimum Elevation (Well ID)	3,177.05 ft (MW-4*)
Average Change from Previous Monitoring Event	0.52 ft
Hydraulic Gradient / (Well IDs)	0.002 ft/ft (MW-3 to MW-4) 0.001 ft/ft (MW-3 to MW-1)

* Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)

LNAPL was observed at MW-4 (0.92 feet) during the first quarter 2022, which is an increase from 0.60 feet measured during last groundwater event in the fourth quarter 2021 (Table 1). 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 (Pace) in Mount Juliet, Tennessee.

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 2022 event are provided in Appendix A, and the laboratory analytical report for the first quarter 2022 event is included in Appendix B. The laboratory analytical results are also displayed on Figure 4.

First quarter 2022 field observations and analytical results for samples collected from MW-1 through MW-3 indicate the following:

- Benzene was detected above the updated NMWQCC groundwater standard of 0.005 mg/L (effective 7/1/2020) in MW-1 (0.0167 mg/L), however, the duplicate for MW-1 was reported below standards (0.00284 mg/L). MW-4 was not sampled due to the presence of LNAPL (0.92 ft). Benzene was not detected above the NMWQCC groundwater standard or reported detection limit at the remaining wells.
- 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 sampled Site monitoring wells.
- Chloride was detected at concentrations greater than the NMWQCC secondary maximum contaminant level (SMCL) guideline of 250 mg/L at all sampled monitoring well locations with concentrations ranging from 434 mg/L at MW-3 to 1,870 mg/L at MW-2.

3.3 Data Quality Assurance / Quality Control

A 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 2022 include the following:

- Trip Blank was not provided for the first quarter 2022 sampling event.



- The parent sample collected from MW-1 and the associated duplicate sample exhibited benzene concentrations of 0.0167 mg/L and 0.00284 mg/L, respectively, yielding a relative percent difference (RPD) of 141.86 percent (%) which is outside the target range of 20%. The parent sample results are consistent with concentrations observed during previous sampling events, and the discrepancy between parent and duplicate concentrations could be due to matrix interference. Head space in the sample container was not reported by the laboratory.
- Subsequent to collection of the first quarter 2022 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 2022 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 2022 EFR event was conducted at the site on March 23, 2022, 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 37 bbls (1,554 gallons) of fluid were recovered during the first quarter 2022 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 2021 and first quarter 2022 sampling and EFR events, the skimmer collected approximately 0.20 gallons of product. The passive LNAPL skimmer was reinstalled after the first quarter 2022 EFR event.

5. Conclusions

Evaluation of the first quarter 2022 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 2021 with an average increase of 0.52 ft per monitoring well.
- LNAPL was observed at monitoring well MW-4 during the first quarter 2022. The presence of LNAPL at this location has historically fluctuated since 2015.



- Benzene concentrations were detected at greater than NMWQCC maximum allowable concentration standards in MW-1 (0.0167 mg/L). No other BTEX constituents were detected above MMWQCC standards at Site wells.
- Chloride concentrations were above the NMWQCC SMCL guideline at all sampled Site monitoring wells.

6. Recommendations

Based on evaluation of first quarter 2022 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 2022.

Tables

TABLE 1
FIRST QUARTER 2022
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 ¹ (feet)
MW-1	6/18/2021	20.89			31.82	3197.65	3176.76	-0.37
MW-1	9/24/2021	20.84			31.82	3197.65	3176.81	0.05
MW-1	12/21/2021	21.55			31.82	3197.65	3176.10	-0.71
MW-1	3/23/2022	20.51			31.82	3197.65	3177.14	1.04
MW-2	6/18/2021	23.01			32.87	3200.00	3176.99	-0.26
MW-2	9/24/2021	22.98			32.87	3200.00	3177.02	0.03
MW-2	12/21/2021	22.90			32.87	3200.00	3177.10	0.08
MW-2	3/23/2022	22.89			32.87	3200.00	3177.11	0.01
MW-3	6/18/2021	23.57			34.25	3200.84	3177.27	-0.15
MW-3	9/24/2021	23.57			34.25	3200.84	3177.27	0.00
MW-3	12/21/2021	23.53			34.25	3200.84	3177.31	0.04
MW-3	3/23/2022	23.54			34.25	3200.84	3177.30	-0.01
MW-4	6/18/2021	25.49	25.24	0.25	31.93	3200.98	3175.69	-0.74
MW-4	9/24/2021	25.45	24.85	0.60	31.93	3200.98	3176.01	0.32
MW-4	12/21/2021	25.40	24.85	0.55	31.93	3200.98	3176.02	0.01
MW-4	3/23/2022	24.66	23.74	0.92	31.93	3200.98	3177.05	1.03
Average change in groundwater elevation (12/21/21 to 3/23/2022)								0.52

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)
--

LNAPL relative density was calculated to be approximately 0.792 grams per cubic centimeter (g/cm ³)

NM = Not measured.

NC= Not calculated.

TABLE 2
FIRST QUARTER 2022
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	3/23/2022	0.0167	<0.00100	0.00872	0.00280 J	818	
MW-1 (Duplicate)	3/23/2022	0.00284	<0.00100	0.00114	0.000235 J	826	
MW-2	3/23/2022	<0.00100	<0.00100	<0.00100	0.00112 J	1,870	
MW-3	3/23/2022	0.00110	0.00119	<0.00100	0.000290 J	434	
MW-4	3/23/2022	Not Sampled - LNAPL					LNAPL (0.92')

Notes:

Bold red values indicate an exceedance of the associated NMWQCC standard (Effective 7/1/2020) 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

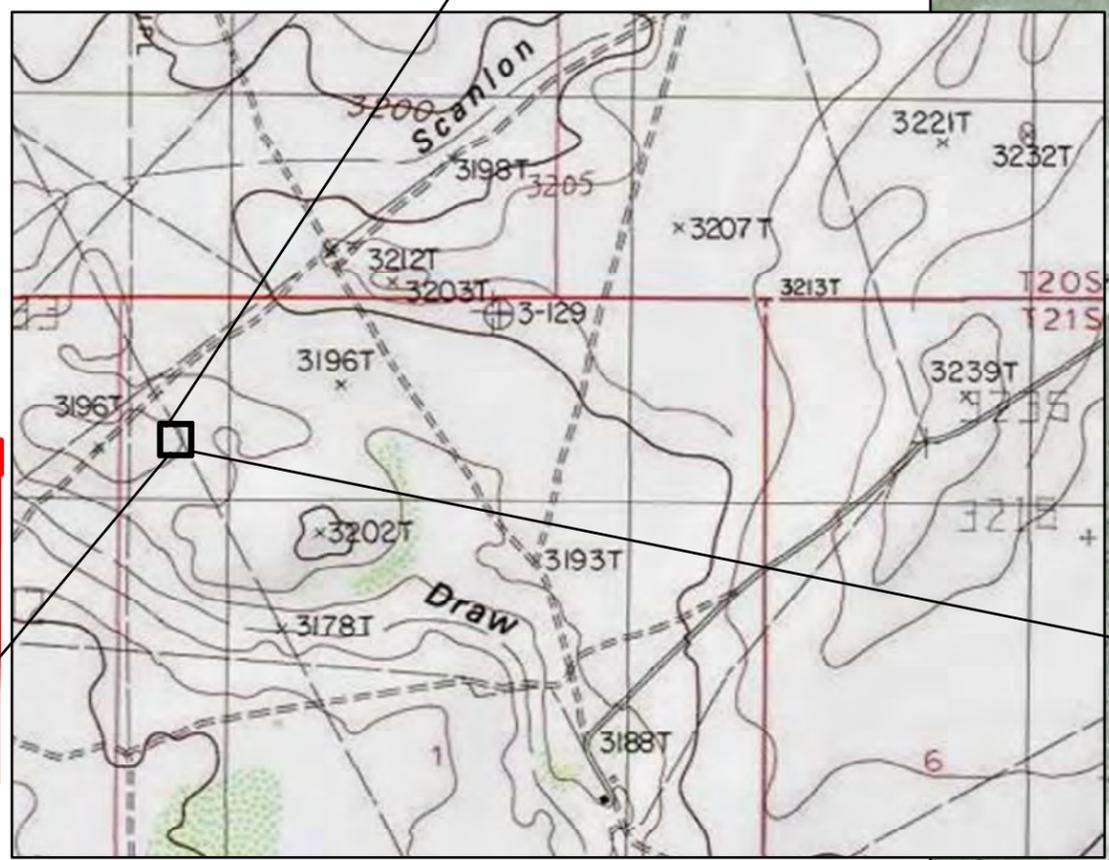
LNAPL = Light Non-Aqueous Phase Liquid

NA = Not Analyzed

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

mg/L = milligrams per liter

Figures



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



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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



Imagery Source: 2014 Google Earth

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

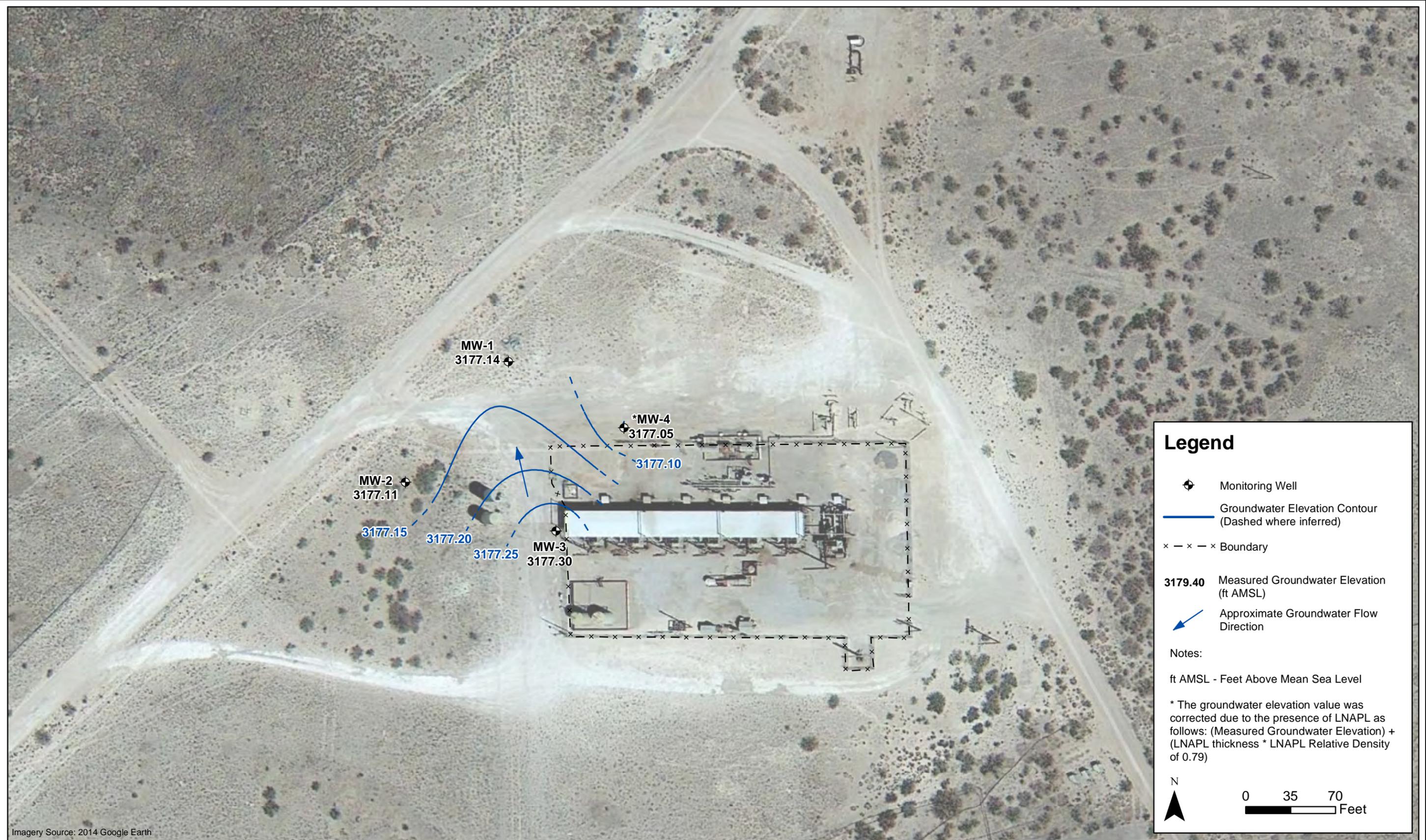


Tasman Geosciences, Inc.
 6855 W. 119th Ave
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DCP Midstream
Burton Flats Booster Station
 Groundwater Monitoring Summary Report

Site Map with Monitoring
 Well Locations

Figure
 2



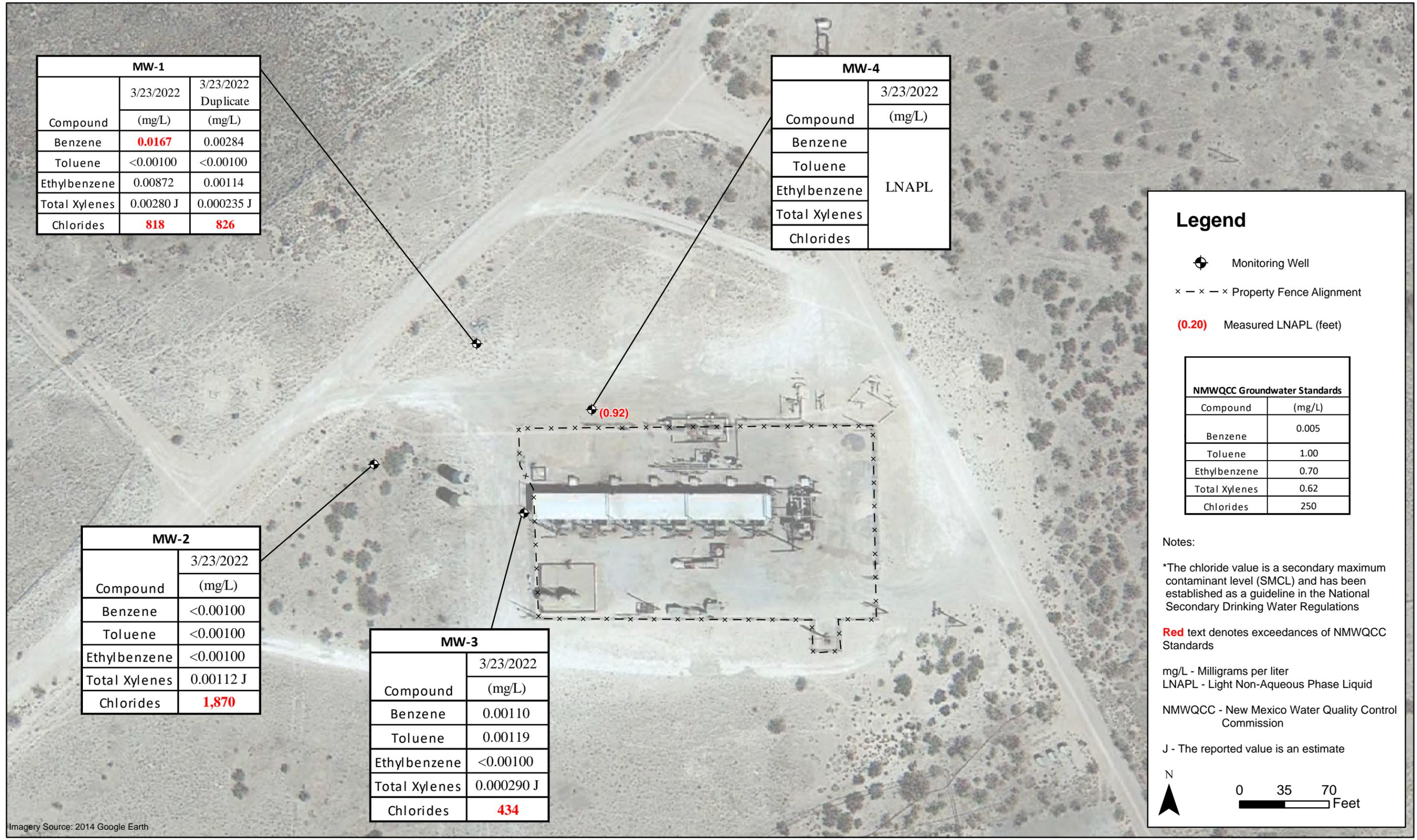
DATE:	April 2022
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts

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

DCP Midstream
Burton Flats Booster Station
First Quarter 2022 Groundwater Monitoring
Summary Report

Groundwater Elevation
Contour Map
(March 23, 2022)

Figure
3



MW-1		
Compound	3/23/2022	3/23/2022 Duplicate
	(mg/L)	(mg/L)
Benzene	0.0167	0.00284
Toluene	<0.00100	<0.00100
Ethylbenzene	0.00872	0.00114
Total Xylenes	0.00280 J	0.000235 J
Chlorides	818	826

MW-4	
Compound	3/23/2022
	(mg/L)
Benzene	LNAPL
Toluene	
Ethylbenzene	
Total Xylenes	
Chlorides	

MW-2	
Compound	3/23/2022
	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	0.00112 J
Chlorides	1,870

MW-3	
Compound	3/23/2022
	(mg/L)
Benzene	0.00110
Toluene	0.00119
Ethylbenzene	<0.00100
Total Xylenes	0.000290 J
Chlorides	434

Legend

- Monitoring Well
- Property Fence Alignment
- Measured LNAPL (feet)

NMWQCC Groundwater Standards	
Compound	(mg/L)
Benzene	0.005
Toluene	1.00
Ethylbenzene	0.70
Total Xylenes	0.62
Chlorides	250

Notes:

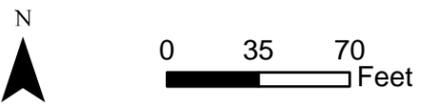
*The chloride value is a secondary maximum contaminant level (SMCL) and has been established as a guideline in the National Secondary Drinking Water Regulations

Red text denotes exceedances of NMWQCC Standards

mg/L - Milligrams per liter
LNAPL - Light Non-Aqueous Phase Liquid

NMWQCC - New Mexico Water Quality Control Commission

J - The reported value is an estimate



Imagery Source: 2014 Google Earth

DATE:	April 2022
DESIGNED BY:	B. Humphrey
DRAWN BY:	J. Clonts

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

**DCP Midstream
Burton Flats Booster Station**
First Quarter 2022 Groundwater Monitoring
Summary Report

Analytical Results
Map
(March 23, 2022)

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)		0.005	1.00	0.70	0.62	250	
MW-1	12/14/2011	0.140	0.0034	0.200	0.111	665	Duplicate sample collected
MW-1	4/26/2012	0.153	<0.001	0.229	0.0073	584	
MW-1	6/20/2012	0.0967	<0.001	0.284	0.0474	651	Duplicate sample collected
MW-1	9/26/2012	0.0615	<0.001	0.0803	0.0015	590	
MW-1	12/5/2012	0.020	<0.001	0.17	0.037	599	
MW-1	2/21/2013	0.0021	<0.001	0.0058	<0.003	668	Duplicate sample collected
MW-1	6/3/2013	0.0049	<0.001	0.0048	<0.001	703	Duplicate sample collected
MW-1	9/11/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	12/3/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	2/26/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	6/2/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	9/24/2014	Third Quarter 2014 Sampling Suspended - Regional Flooding					
MW-1	12/3/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	2/27/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	6/2/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	8/31/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	12/15/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	3/21/2016	0.0450	<0.0010	0.080	0.010	685	
MW-1	6/20/2016	0.082	<0.0010	0.10	0.0072	700	
MW-1	9/26/2016	0.035	<0.0050	0.033	<0.015	705	
MW-1	12/19/2016	0.051	<0.0010	0.040	0.0035	769	
MW-1	3/6/2017	0.044	<0.0010	0.025	0.0012	733	Duplicate sample collected
MW-1 (Duplicate)	3/6/2017	0.054	<0.0010	0.035	0.0014	740	
MW-1	6/19/2017	0.043	<0.0010	0.020	<0.0010	671	
MW-1	9/27/2017	0.00867	<0.0010	0.00359	<0.0030	649	Duplicate Sample Collected
MW-1 (Duplicate)	9/27/2017	0.00958	<0.0010	0.00389	<0.0030	608	
MW-1	12/18/2017	0.0204	<0.0010	0.00522	<0.0030	679	Duplicate Sample Collected
MW-1 (Duplicate)	12/18/2017	0.0179	<0.0010	0.00502	<0.0030	778	
MW-1	3/12/2018	0.0299	<0.0010	0.0199	0.00114 J	764	Duplicate Sample Collected
MW-1 (Duplicate)	3/12/2018	0.0399	<0.0010	0.0230	<0.0030	770	
MW-1	6/25/2018	0.0255	<0.0010	0.0255	<0.0030	623	Duplicate Sample Collected
MW-1 (Duplicate)	6/25/2018	0.0281	<0.0010	0.0277	<0.0030	632	
MW-1	9/17/2018	0.0115	<0.0010	0.0063	<0.0030	668	Duplicate Sample Collected
MW-1 (Duplicate)	9/17/2018	0.0105	<0.0010	0.0060	<0.0030	641	
MW-1	12/10/2018	0.000641 J	<0.0010	0.00115	<0.0030	1,180	Duplicate Sample Collected
MW-1 (Duplicate)	12/10/2018	0.000712 J	<0.0010	0.00126	<0.0030	1,230	
MW-1	3/21/2019	0.0018	<0.0010	0.00159	<0.0030	667	Duplicate Sample Collected
MW-1 (Duplicate)	3/21/2019	0.0026	<0.0010	0.00144	<0.0030	680	
MW-1	6/13/2019	0.0316	<0.0010	0.0232	<0.0030	774	Duplicate Sample Collected
MW-1 (Duplicate)	6/13/2019	0.0294	<0.0010	0.0216	<0.0030	768	
MW-1	9/17/2019	0.00456	<0.0010	0.00219	<0.0030	654	Duplicate Sample Collected
MW-1 (Duplicate)	9/17/2019	0.0059	<0.0010	0.00272	<0.0030	768	
MW-1	12/9/2019	0.00713	<0.0010	0.00789	0.00161 J	681	Duplicate Sample Collected
MW-1 (Duplicate)	12/9/2019	0.00772	<0.0010	0.00827	0.00166 J	684	
MW-1	6/19/2020	0.02780	<0.0010	0.01900	0.00160 J	908	Duplicate Sample Collected
MW-1 (Duplicate)	6/19/2020	0.02770	<0.0010	0.01870	0.00139 J	927	
MW-1	12/11/2020	0.0439	<0.00100	0.0247	0.00770	743	Duplicate Sample Collected
MW-1 (Duplicate)	12/11/2020	0.0445	<0.00100	0.0248	0.00769	734	
MW-1	3/24/2021	0.0386	<0.00100	0.0224	0.00599	786	Duplicate Sample Collected
MW-1 (Duplicate)	3/24/2021	0.0323	<0.00100	0.0188	0.00456	781	
MW-1	6/18/2021	0.0356	<0.00100	0.0127	0.00263 J	848	Duplicate Sample Collected
MW-1 (Duplicate)	6/18/2021	0.0375	<0.00100	0.0136	0.00279 J	844	

**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-1	9/24/2021	0.0403	<0.00100	0.0138	0.00203 J	814	Duplicate Sample Collected	
MW-1 (Duplicate)	9/24/2021	0.0448	<0.00100	0.0170	0.00289 J	868		
MW-1	12/21/2021	0.0326	<0.00100	0.0108	0.00182 J	743	Duplicate Sample Collected	
MW-1 (Duplicate)	12/21/2021	0.0323	<0.00100	0.0108	0.00198 J	741		
MW-1	3/23/2022	0.0167	<0.00100	0.00872	0.00280 J	818	Duplicate Sample Collected	
MW-1 (Duplicate)	3/23/2022	0.00284	<0.00100	0.00114	0.000235 J	826		
MW-2	12/14/2011	<0.001	<0.001	<0.001	<0.003	1,170		
MW-2	4/26/2012	<0.001	<0.001	<0.001	<0.003	1,040		
MW-2	6/20/2012	<0.001	<0.001	<0.001	<0.003	1,150		
MW-2	9/26/2012	<0.001	<0.001	<0.001	<0.003	1,130		
MW-2	12/5/2012	<0.001	<0.001	<0.001	<0.003	1,120	Duplicate sample collected	
MW-2	2/21/2013	<0.001	<0.001	<0.001	<0.003	1,250		
MW-2	6/3/2013	<0.001	<0.001	<0.001	<0.001	1,150		
MW-2	9/11/2013	<0.001	<0.001	<0.001	<0.001	1,410	Duplicate sample collected	
MW-2	12/3/2013	<0.001	<0.001	<0.001	<0.001	1,120	Duplicate sample collected	
MW-2	2/26/2014	<0.001	<0.001	<0.001	<0.001	1,220	Duplicate sample collected	
MW-2 (Duplicate)	2/26/2014	<0.001	<0.001	<0.001	<0.001	1,270		
MW-2	6/2/2014	<0.001	<0.001	<0.001	<0.001	1,270	Duplicate sample collected	
MW-2 (Duplicate)	6/2/2014	<0.001	<0.001	<0.001	<0.001	1,290		
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	1,300	Duplicate sample collected	
MW-2 (Duplicate)	12/3/2014	<0.001	<0.001	<0.001	<0.001	1,410		
MW-2	2/27/2015	<0.001	<0.001	<0.001	<0.003	1,440	Duplicate sample collected	
MW-2 (Duplicate)	2/27/2015	<0.001	<0.001	<0.001	<0.003	1,440		
MW-2	6/2/2015	<0.001	<0.001	<0.001	<0.003	1,650	Duplicate sample collected	
MW-2 (Duplicate)	6/2/2015	<0.001	<0.001	<0.001	<0.003	1,810		
MW-2	8/31/2015	<0.001	<0.001	<0.001	<0.003	1,420	Duplicate sample collected	
MW-2 (Duplicate)	8/31/2015	<0.001	<0.001	<0.001	<0.003	1,440		
MW-2	12/15/2015	<0.001	<0.001	<0.001	<0.003	1,350	Duplicate sample collected	
MW-2 (Duplicate)	12/15/2015	<0.001	<0.001	<0.001	<0.003	1,350		
MW-2	3/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	1,300		
MW-2	6/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	1,280		
MW-2	9/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	1,310		
MW-2	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0030	1,560	Duplicate sample collected	
MW-2 (Duplicate)	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0030	1,350		
MW-2	3/6/2017	<0.0010	<0.0010	<0.0010	<0.0010	1,210		
MW-2	6/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	1,480		
MW-2	9/27/2017	<0.0010	<0.0010	<0.0010	<0.0030	1,530		
MW-2	12/18/2017	<0.0010	<0.0010	<0.0010	<0.0030	1,300		
MW-2	3/12/2018	<0.0010	<0.0010	<0.0010	<0.0030	1,290		
MW-2	6/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	1,490		
MW-2	9/17/2018	<0.0010	<0.0010	<0.0010	<0.0030	2,130		
MW-2	12/10/2018	<0.0010	<0.0010	<0.0010	<0.0030	3,780		
MW-2	3/21/2019	<0.0010	<0.0010	<0.0010	<0.0030	1,380		
MW-2	6/13/2019	<0.0010	<0.0010	<0.0010	<0.0030	1,860		
MW-2	9/17/2019	<0.0010	<0.0010	<0.0010	<0.0030	2,380		
MW-2	12/9/2019	<0.0010	<0.0010	<0.0010	<0.0030	1,870		
MW-2	6/19/2020	<0.0010	<0.0010	<0.0010	<0.0030	2,220		
MW-2	12/11/2020	<0.00100	<0.00100	<0.00100	<0.00300	2,160		
MW-2	3/24/2021	0.000195 J	<0.00100	<0.00100	<0.00300	1,860		
MW-2	6/18/2021	<0.00100	<0.00100	<0.00100	<0.00300	2,120		

**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-2	9/24/2021	<0.00100	<0.00100	<0.00100	<0.00300	2,120		
MW-2	12/21/2021	0.000114 J	<0.00100	<0.00100	<0.00300	435		
MW-2	3/23/2022	<0.00100	<0.00100	<0.00100	0.00112 J	1,870		
MW-3	3/19/2008							
MW-3	6/29/2008							
MW-3	9/17/2008							
MW-3	12/3/2008							
MW-3	3/11/2009							
MW-3	5/19/2009							
MW-3	9/23/2009							
MW-3	12/20/2009							
MW-3	3/22/2010							
MW-6*	3/29/2010							
MW-3	12/14/2011	<0.001	<0.001	<0.001	<0.003	426		
MW-3	4/26/2012	<0.001	<0.001	<0.001	<0.003	406	Duplicate sample collected	
MW-3	6/20/2012	<0.001	<0.001	<0.001	<0.003	435		
MW-3	9/26/2012	<0.001	<0.001	0.00057	<0.003	447	Duplicate sample collected	
MW-3	12/5/2012	<0.001	<0.001	<0.001	<0.003	444		
MW-3	2/21/2013	<0.001	<0.001	<0.001	<0.003	503		
MW-3	6/12/2013	<0.001	<0.001	<0.001	<0.001	474		
MW-3	9/11/2013	<0.001	<0.001	<0.001	<0.001	589		
MW-3	12/3/2013	<0.001	<0.001	<0.001	<0.001	432		
MW-3	2/26/2014	<0.001	<0.001	<0.001	<0.001	484		
MW-3	6/2/2014	<0.001	<0.001	<0.001	<0.001	519		
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	294		
MW-3	2/27/2015	<0.001	<0.001	<0.001	<0.003	301		
MW-3	6/2/2015	<0.001	<0.001	<0.001	<0.003	384		
MW-3	8/31/2015	<0.001	<0.001	<0.001	<0.003	386		
MW-3	12/15/2015	<0.001	<0.001	<0.001	<0.003	568		
MW-3	3/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	484	Duplicate sample collected	
MW-3 (Duplicate)	3/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	526		
MW-3	6/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	414	Duplicate sample collected	
MW-3 (Duplicate)	6/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	383		
MW-3	9/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	320	Duplicate sample collected	
MW-3 (Duplicate)	9/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	324		
MW-3	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0030	285		
MW-3	3/6/2017	<0.0010	<0.0010	<0.0010	<0.0010	466		
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	251		
MW-3	9/27/2017	<0.0010	<0.0010	<0.0010	<0.0030	269		
MW-3	12/18/2017	<0.0010	<0.0010	<0.0010	<0.0030	310		
MW-3	3/12/2018	<0.0010	<0.0010	<0.0010	<0.0030	253		
MW-3	6/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	258		
MW-3	9/17/2018	<0.0010	<0.0010	<0.0010	<0.0030	277		
MW-3	12/10/2018	<0.0010	<0.0010	<0.0010	<0.0030	429		
MW-3	3/21/2019	<0.0010	<0.0010	<0.0010	<0.0030	309		
MW-3	6/13/2019	<0.0010	<0.0010	<0.0010	<0.0030	369		
MW-3	9/17/2019	0.00426	<0.0010	<0.0010	<0.0030	333		
MW-3	12/9/2019	0.00216	<0.0010	<0.0010	<0.0030	339		

**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-3	6/19/2020	0.000240 J	<0.0010	<0.0010	<0.0030	372		
MW-3	12/11/2020	<0.00100	<0.00100	<0.00100	<0.00300	420		
MW-3	3/24/2021	0.000352 J	0.000345 J	<0.00100	<0.00300	410		
MW-3	6/18/2021	<0.00100	<0.00100	<0.00100	<0.00300	436		
MW-3	9/24/2021	0.000125 J	<0.00100	<0.00100	<0.00300	443		
MW-3	12/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	1990		
MW-3	3/23/2022	0.00110	0.00119	<0.00100	0.000290 J	434		
MW-4								
MW-4								
MW-4								
MW-4								
MW-4								
MW-4								
MW-4								
MW-4								
MW-4								
MW-4								
MW-4	4/26/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	6/20/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	9/26/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	12/5/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	2/21/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	6/3/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	9/11/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	12/3/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	2/26/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	6/2/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	9/24/2014	Third Quarter 2014 Sampling Suspended - Regional Flooding						
MW-4	12/3/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	2/27/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	6/2/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	8/31/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL		
MW-4	12/15/2015	LNAPL	LNAPL	LNAPL	LNAPL	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	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL (0.18 feet)	
MW-4	9/17/2018	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL (0.5 feet)	
MW-4	12/10/2018	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL (0.59 feet)	
MW-4	3/21/2019	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL (0.65 feet)	
MW-4	6/13/2019	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL (0.55 feet)	
MW-4	9/17/2019			LNAPL			LNAPL (0.23 feet)	
MW-4	12/9/2019			LNAPL			LNAPL (0.39 feet)	
MW-4	6/19/2020			LNAPL			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
NMWQCC Groundwater Standards (mg/L)		0.005	1.00	0.70	0.62	250	
MW-4	12/11/2020			LNAPL			LNAPL
MW-4	3/24/2021			LNAPL			LNAPL
MW-4	6/18/2021			LNAPL			LNAPL
MW-4	9/24/2021			LNAPL			LNAPL
MW-4	12/21/2021			LNAPL			LNAPL
MW-4	3/23/2022			LNAPL			LNAPL
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	12/9/2019	<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	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	
Trip Blank	6/18/2021	NA	NA	NA	NA	NA	
Trip Blank	9/24/2021	0.000372 J	<0.00100	<0.00100	<0.00100	NA	
Trip Blank	12/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
Trip Blank	3/23/2022	NA	NA	NA	NA	NA	No Trip Blank

Notes:

Bold red values indicate an exceedance of the associated NMWQCC standard (Effective 7/1/2020) 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 #: L1475571



ANALYTICAL REPORT

March 31, 2022

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

DCP Midstream - Tasman

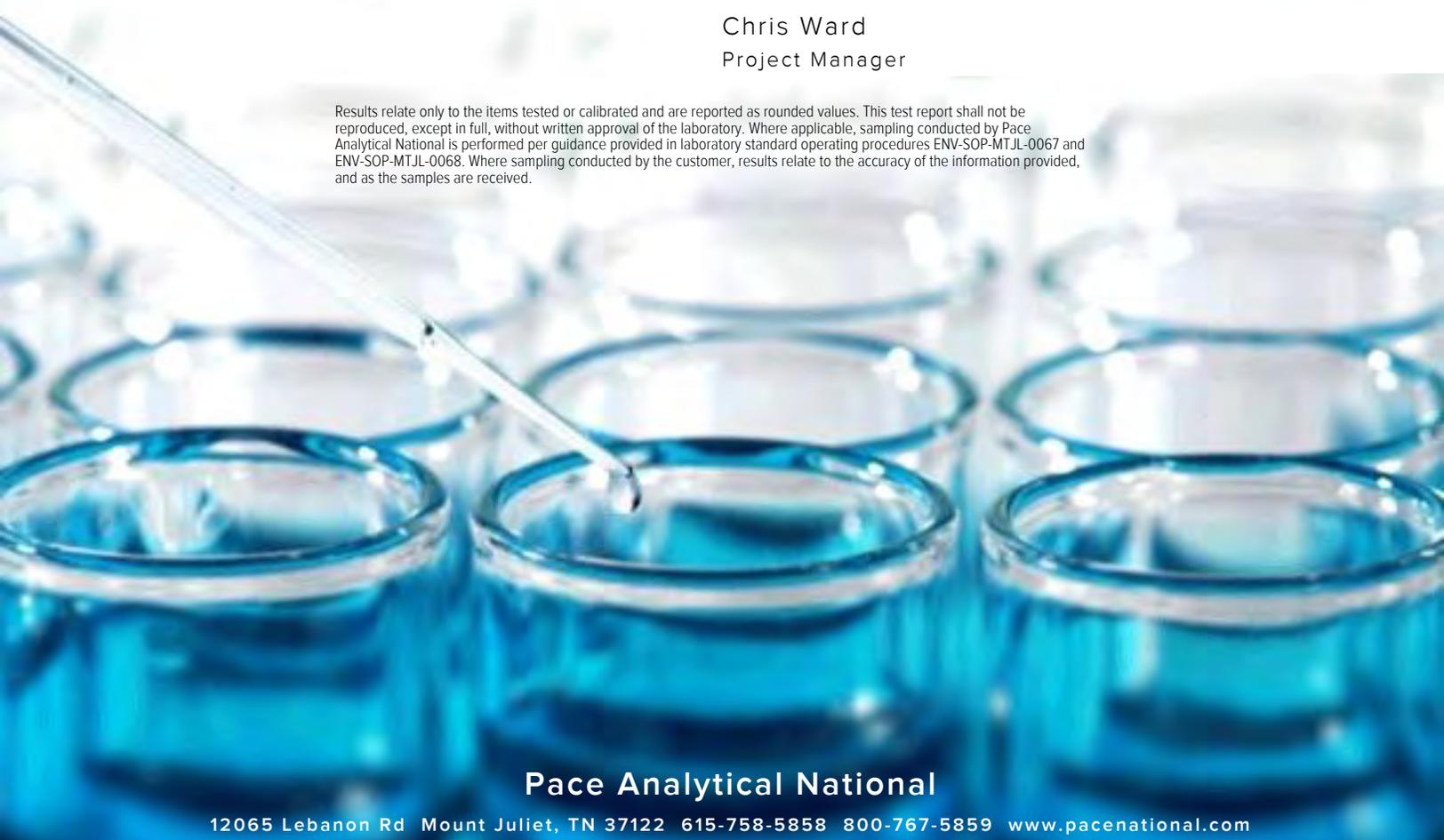
Sample Delivery Group: L1475571
 Samples Received: 03/25/2022
 Project Number:
 Description: Burton Flats Booster Station

Report To: Kyle Norman
 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

Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	4	
Sr: Sample Results	5	
MW-1 L1475571-01	5	
MW-2 L1475571-02	6	
MW-3 L1475571-03	7	
DUPLICATE L1475571-04	8	
Qc: Quality Control Summary	9	
Wet Chemistry by Method 9056A	9	
Volatile Organic Compounds (GC/MS) by Method 8260B	10	
Gl: Glossary of Terms	13	
Al: Accreditations & Locations	14	
Sc: Sample Chain of Custody	15	

MW-1 L1475571-01 GW

Collected by
Becky Griffin

Collected date/time
03/23/22 08:30

Received date/time
03/25/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1839607	20	03/29/22 06:29	03/29/22 06:29	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838811	1	03/26/22 23:43	03/26/22 23:43	JCP	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

MW-2 L1475571-02 GW

Collected by
Becky Griffin

Collected date/time
03/23/22 09:00

Received date/time
03/25/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1839607	100	03/29/22 07:23	03/29/22 07:23	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838811	1	03/27/22 00:24	03/27/22 00:24	JCP	Mt. Juliet, TN

MW-3 L1475571-03 GW

Collected by
Becky Griffin

Collected date/time
03/23/22 09:20

Received date/time
03/25/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1839607	10	03/29/22 07:41	03/29/22 07:41	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1839699	1	03/29/22 00:34	03/29/22 00:34	ADM	Mt. Juliet, TN

DUPLICATE L1475571-04 GW

Collected by
Becky Griffin

Collected date/time
03/23/22 00:00

Received date/time
03/25/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1839607	20	03/29/22 07:59	03/29/22 07:59	ST	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838869	1	03/27/22 18:01	03/27/22 18:01	JBE	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

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

Collected date/time: 03/23/22 08:30

L1475571

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	818		7.58	20.0	20	03/29/2022 06:29	WG1839607

1 Cp

2 Tc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	0.0167		0.0000941	0.00100	1	03/26/2022 23:43	WG1838811
Toluene	U		0.000278	0.00100	1	03/26/2022 23:43	WG1838811
Ethylbenzene	0.00872		0.000137	0.00100	1	03/26/2022 23:43	WG1838811
Total Xylenes	0.00280	J	0.000174	0.00300	1	03/26/2022 23:43	WG1838811
(S) Toluene-d8	106			80.0-120		03/26/2022 23:43	WG1838811
(S) 4-Bromofluorobenzene	99.1			77.0-126		03/26/2022 23:43	WG1838811
(S) 1,2-Dichloroethane-d4	99.7			70.0-130		03/26/2022 23:43	WG1838811

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/23/22 09:00

L1475571

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	1870		37.9	100	100	03/29/2022 07:23	WG1839607

1 Cp

2 Tc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	U		0.0000941	0.00100	1	03/27/2022 00:24	WG1838811
Toluene	U		0.000278	0.00100	1	03/27/2022 00:24	WG1838811
Ethylbenzene	U		0.000137	0.00100	1	03/27/2022 00:24	WG1838811
Total Xylenes	0.00112	J	0.000174	0.00300	1	03/27/2022 00:24	WG1838811
(S) Toluene-d8	112			80.0-120		03/27/2022 00:24	WG1838811
(S) 4-Bromofluorobenzene	92.9			77.0-126		03/27/2022 00:24	WG1838811
(S) 1,2-Dichloroethane-d4	99.1			70.0-130		03/27/2022 00:24	WG1838811

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/23/22 09:20

L1475571

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	434		3.79	10.0	10	03/29/2022 07:41	WG1839607

- 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	0.00110		0.0000941	0.00100	1	03/29/2022 00:34	WG1839699
Toluene	0.00119		0.000278	0.00100	1	03/29/2022 00:34	WG1839699
Ethylbenzene	U		0.000137	0.00100	1	03/29/2022 00:34	WG1839699
Total Xylenes	0.000290	J	0.000174	0.00300	1	03/29/2022 00:34	WG1839699
(S) Toluene-d8	111			80.0-120		03/29/2022 00:34	WG1839699
(S) 4-Bromofluorobenzene	87.6			77.0-126		03/29/2022 00:34	WG1839699
(S) 1,2-Dichloroethane-d4	102			70.0-130		03/29/2022 00:34	WG1839699

Collected date/time: 03/23/22 00:00

L1475571

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	826		7.58	20.0	20	03/29/2022 07:59	WG1839607

- 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	0.00284		0.0000941	0.00100	1	03/27/2022 18:01	WG1838869
Toluene	U		0.000278	0.00100	1	03/27/2022 18:01	WG1838869
Ethylbenzene	0.00114		0.000137	0.00100	1	03/27/2022 18:01	WG1838869
Total Xylenes	0.000235	J	0.000174	0.00300	1	03/27/2022 18:01	WG1838869
(S) Toluene-d8	109			80.0-120		03/27/2022 18:01	WG1838869
(S) 4-Bromofluorobenzene	96.8			77.0-126		03/27/2022 18:01	WG1838869
(S) 1,2-Dichloroethane-d4	106			70.0-130		03/27/2022 18:01	WG1838869

Wet Chemistry by Method 9056A

[L1475571-01,02,03,04](#)

Method Blank (MB)

(MB) R3775362-1 03/28/22 19:31

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

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

L1475473-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1475473-02 03/28/22 21:15 • (DUP) R3775362-3 03/28/22 21:32

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	13.5	13.6	1	0.0531		15

L1475545-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1475545-07 03/29/22 05:36 • (DUP) R3775362-6 03/29/22 05:53

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	0.431	0.432	1	0.371	↓	15

Laboratory Control Sample (LCS)

(LCS) R3775362-2 03/28/22 19:49

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	40.7	102	80.0-120	

L1475494-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1475494-07 03/29/22 02:01 • (MS) R3775362-4 03/29/22 02:19 • (MSD) R3775362-5 03/29/22 02:36

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	41.6	90.0	89.7	96.8	96.3	1	80.0-120			0.270	15

L1475545-07 Original Sample (OS) • Matrix Spike (MS)

(OS) L1475545-07 03/29/22 05:36 • (MS) R3775362-7 03/29/22 06:11

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	50.0	0.431	50.3	99.7	1	80.0-120	

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

L1475571-01,02

Method Blank (MB)

(MB) R3774874-2 03/26/22 18:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	106			80.0-120
(S) 4-Bromofluorobenzene	100			77.0-126
(S) 1,2-Dichloroethane-d4	109			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3774874-1 03/26/22 17:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Benzene	0.00500	0.00464	92.8	70.0-123	
Toluene	0.00500	0.00449	89.8	79.0-120	
Ethylbenzene	0.00500	0.00463	92.6	79.0-123	
Xylenes, Total	0.0150	0.0138	92.0	79.0-123	
(S) Toluene-d8			102	80.0-120	
(S) 4-Bromofluorobenzene			101	77.0-126	
(S) 1,2-Dichloroethane-d4			110	70.0-130	

L1475550-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1475550-01 03/26/22 19:59 • (MS) R3774874-3 03/27/22 01:25 • (MSD) R3774874-4 03/27/22 01:45

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Benzene	0.00500	U	0.00588	0.00580	118	116	1	17.0-158			1.37	27
Toluene	0.00500	U	0.00596	0.00582	119	116	1	26.0-154			2.38	28
Ethylbenzene	0.00500	U	0.00609	0.00611	122	122	1	30.0-155			0.328	27
Xylenes, Total	0.0150	U	0.0184	0.0179	123	119	1	29.0-154			2.75	28
(S) Toluene-d8					106	104		80.0-120				
(S) 4-Bromofluorobenzene					102	101		77.0-126				
(S) 1,2-Dichloroethane-d4					102	103		70.0-130				

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

L1475571-04

Method Blank (MB)

(MB) R3775491-2 03/27/22 15:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	105			80.0-120
(S) 4-Bromofluorobenzene	96.3			77.0-126
(S) 1,2-Dichloroethane-d4	100			70.0-130

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

(LCS) R3775491-1 03/27/22 14:13 • (LCSD) R3775491-3 03/27/22 16:08

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.00500	0.00422	0.00439	84.4	87.8	70.0-123			3.95	20
Toluene	0.00500	0.00416	0.00422	83.2	84.4	79.0-120			1.43	20
Ethylbenzene	0.00500	0.00408	0.00431	81.6	86.2	79.0-123			5.48	20
Xylenes, Total	0.0150	0.0122	0.0129	81.3	86.0	79.0-123			5.58	20
(S) Toluene-d8				105	106	80.0-120				
(S) 4-Bromofluorobenzene				94.3	93.8	77.0-126				
(S) 1,2-Dichloroethane-d4				99.8	99.4	70.0-130				

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

L1475571-03

Method Blank (MB)

(MB) R3775018-4 03/28/22 23:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	117			80.0-120
(S) 4-Bromofluorobenzene	91.0			77.0-126
(S) 1,2-Dichloroethane-d4	107			70.0-130

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

(LCS) R3775018-1 03/28/22 21:37 • (LCSD) R3775018-2 03/28/22 21:58

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.00500	0.00518	0.00527	104	105	70.0-123			1.72	20
Toluene	0.00500	0.00585	0.00581	117	116	79.0-120			0.686	20
Ethylbenzene	0.00500	0.00556	0.00562	111	112	79.0-123			1.07	20
Xylenes, Total	0.0150	0.0166	0.0171	111	114	79.0-123			2.97	20
(S) Toluene-d8				112	108	80.0-120				
(S) 4-Bromofluorobenzene				91.5	89.2	77.0-126				
(S) 1,2-Dichloroethane-d4				105	102	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.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

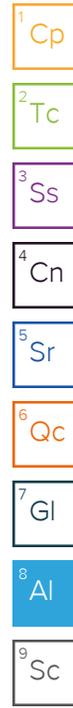
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



DCP Midstream - Tasman

2620 W. Marland Blvd
Hobbs, NM 88240

Billing Information:

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

Pres
Chk

Report to:
Kyle Norman

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

Project Description:
Burton Flats Booster Station

City/State
Collected:

Please Circle:
PT MT CT ET

Phone: **720-218-4003**

Client Project #

Lab Project #
DCPTASMAN-BURTONFLAT

Collected by (print):
BECKY GRIFFIN

Site/Facility ID #

P.O. #
0000524217

Collected by (signature):
Becky Griffin

Rush? (Lab MUST Be Notified)

Quote #

Same Day ___ Five Day ___
Next Day ___ 5 Day (Rad Only) ___
Two Day ___ 10 Day (Rad Only) ___
Three Day ___

Date Results Needed

No.
of
Contrs

Immediately
Packed on Ice N ___ Y ___

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Contrs
MW-1		GW		3-23-22	0830	4 X X
MW-2		GW		3-23-22	0900	4 X X
MW-3		GW		3-23-22	0920	4 X X
MW-4		GW				
DUPLICATE		GW		3-23-22		4 X X
		GW				
TRIP BLANK		GW				

Chloride 125mlHDPE-NoPres
V8260BTEX 40mlAmb-HCl

Analysis / Container / Preservative

Chain of Custody



MT JULIET, TN

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

SDG #

L1475571
H186

Acctnum: **DCPTASMAN**

Template: **T127771**

Prelogin: **P909002**

PM: **824 - Chris Ward**

PB: *08 3/19/22*

Shipped Via: **FedEX Ground**

Remarks Sample # (lab only)

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

Remarks:

pH ___ Temp ___
Flow ___ Other ___

Sample Receipt Checklist	
COC Seal Present/Intact: NP	<input checked="" type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input checked="" type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> N

Samples returned via:
___ UPS ___ FedEx ___ Courier

Tracking #

5071 5377 8268

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes / No

HCL / MeOH
TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: *0.1* Bottles Received: *14*

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: *3/25/22* Time: *0900*

Hold:

Condition
NCF / OK

REVIEWED

10/21/2022 1:41:47 PM

By Nelson Velez at 12:24 pm, Oct 25, 2022

Review of Second Quarter 2022 Groundwater Monitoring and Activities Summary Report:

Content satisfactory

1. Continue quarterly groundwater monitoring and sampling at the monitoring locations identified within the report recommendations.
2. Continue monitoring and evaluation of the passive LNAPL skimmer and recovery system.
3. Continue quarterly EFR event(s) at monitoring wells MW-1 and MW-4 during the first quarter 2022.
4. OCD approves report submittal changed from quarterly to bi-annually.
5. Submit next report no later than December 30, 2022.

Second Quarter 2022 Groundwater Monitoring and Activities Summary Report

Burton Flats Booster Station
Eddy County, New Mexico
#2R799
Incident # nMLB1004239132

Prepared for:



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

Prepared by:



6855 W. 119th Ave.
Broomfield, Colorado 80020

August 30, 2022



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 - 3.2 Groundwater Quality Monitoring 2
 - 3.3 Data Quality Assurance / Quality Control 3
- 4. Remediation Activities 4
- 5. Conclusions 4
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- 2 Second Quarter 2022 Summary of BTEX and Chloride Concentrations in Groundwater

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- 2 Site Map with Monitoring Well Locations
- 3 Groundwater Elevation Map – June 24, 2022
- 4 Analytical Results Map – June 24, 2022

Appendices

- A Historical Analytical Results – BTEX and Chloride Concentrations in Groundwater
- B Laboratory Analytical Reports
- Pace Analytical Job #: L1508947



1. Introduction

This report summarizes groundwater monitoring and remediation activities conducted during the second quarter 2022 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 June 24, 2022.

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 second quarter 2022 groundwater monitoring event. Quarterly monitoring activities were conducted on June 24, 2022, 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 second quarter 2022, 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 second quarter 2022 groundwater elevation contour map, included as Figure 3, indicates that the groundwater gradient at the Site trends to the northeast which is consistent with the previous trends shifting from northwest to northeast. Although this is inconsistent with the trends between second quarter 2016 to first quarter 2019. It is suspected 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

	Second Quarter 2022 (6/24/2022)
Maximum Elevation (Well ID)	3,177.04 ft (MW-3)
Minimum Elevation (Well ID)	3,175.98 ft (MW-4*)
Average Change from Previous Monitoring Event	0.58 ft
Hydraulic Gradient / (Well IDs)	0.01 ft/ft (MW-3 to MW-4) 0.003 ft/ft (MW-3 to MW-1)

* Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)

LNAPL was observed at MW-4 (1.07 feet) during the second quarter 2022, which is an increase of 0.15 feet from the last groundwater event in the first quarter 2022 (Table 1). 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 (Pace) in Mount Juliet, Tennessee.

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 June 2022 event are provided in Appendix A, and the laboratory analytical report for the second quarter 2022 event is included in Appendix B. The laboratory analytical results are also displayed on Figure 4.

Second quarter 2022 field observations and analytical results for samples collected from MW-1 through MW-3 indicate the following:

- Benzene was detected above the updated NMWQCC groundwater standard of 0.005 mg/L (effective 7/1/2020) in MW-1 (0.0426 mg/L) and the duplicate for MW-1 (0.0401 mg/L). MW-4 was not sampled due to the presence of LNAPL (1.07 ft). Benzene was not detected above the NMWQCC groundwater standard or reported detection limit at the remaining wells.
- 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 sampled Site monitoring wells.
- Chloride was detected at concentrations greater than the NMWQCC secondary maximum contaminant level (SMCL) guideline of 250 mg/L at all sampled monitoring well locations with concentrations ranging from 436 mg/L at MW-3 to 2,220 mg/L at MW-2.

3.3 Data Quality Assurance / Quality Control

A 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 second quarter 2022 include the following:

- Target analytes were not detected above laboratory detection limits in the trip blank.



- The parent sample collected from MW-1 and the associated duplicate sample exhibited benzene concentrations of 0.0426 mg/L and 0.0401 mg/L, respectively, yielding a relative percent difference (RPD) of 6.04 percent (%) which is inside the target range of 20%.
- Subsequent to collection of the second quarter 2022 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 second quarter 2022 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 second quarter 2022 EFR event was conducted at the site on June 24, 2022, 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 (1,260 gallons) of fluid were recovered during the second quarter 2022 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 first quarter 2022 and second quarter 2022 sampling and EFR events, the skimmer collected approximately 0.02 gallons of product. The passive LNAPL skimmer was reinstalled after the second quarter 2022 EFR event.

5. Conclusions

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

- Groundwater elevations at the Site indicated an overall decrease compared to the levels that were observed during the first quarter 2022 with an average decrease of 0.58 ft per monitoring well.
- LNAPL was observed at monitoring well MW-4 during the second quarter 2022. The presence of LNAPL at this location has historically fluctuated since 2015.
- Benzene concentrations were detected at greater than NMWQCC maximum allowable concentration standards in MW-1 (0.0426 mg/L in the parent and 0.0401 mg/L in the duplicate). No other BTEX constituents were detected above NMWQCC standards at Site wells. Chloride concentrations were above the NMWQCC SMCL guideline at all sampled Site monitoring wells.



6. Recommendations

Based on evaluation of second quarter 2022 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 third quarter 2022.

Tables

TABLE 1
SECOND QUARTER 2022
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 ¹ (feet)
MW-1	9/24/2021	20.84			31.82	3197.65	3176.81	0.05
MW-1	12/21/2021	21.55			31.82	3197.65	3176.10	-0.71
MW-1	3/23/2022	20.51			31.82	3197.65	3177.14	1.04
MW-1	6/24/2022	21.10			31.82	3197.65	3176.55	-0.59
MW-2	9/24/2021	22.98			32.87	3200.00	3177.02	0.03
MW-2	12/21/2021	22.90			32.87	3200.00	3177.10	0.08
MW-2	3/23/2022	22.89			32.87	3200.00	3177.11	0.01
MW-2	6/24/2022	23.27			32.87	3200.00	3176.73	-0.38
MW-3	9/24/2021	23.57			34.25	3200.84	3177.27	0.00
MW-3	12/21/2021	23.53			34.25	3200.84	3177.31	0.04
MW-3	3/23/2022	23.54			34.25	3200.84	3177.30	-0.01
MW-3	6/24/2022	23.80			34.25	3200.84	3177.04	-0.26
MW-4	9/24/2021	25.45	24.85	0.60	31.93	3200.98	3176.01	0.32
MW-4	12/21/2021	25.40	24.85	0.55	31.93	3200.98	3176.02	0.01
MW-4	3/23/2022	24.66	23.74	0.92	31.93	3200.98	3177.05	1.03
MW-4	6/24/2022	25.85	24.78	1.07	31.93	3200.98	3175.98	-1.07
Average change in groundwater elevation (3/23/2022 to 6/24/2022)								-0.58

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)

LNAPL relative density was calculated to be approximately 0.792 grams per cubic centimeter (g/cm³)

NM = Not measured.

NC= Not calculated.

TABLE 2
SECOND QUARTER 2022
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	6/24/2022	0.0426	<0.00100	0.0126	0.000423 J	704	
MW-1 (Duplicate)	6/24/2022	0.0401	<0.00100	0.0123	0.000413 J	709	
MW-2	6/24/2022	<0.00100	<0.00100	<0.00100	<0.00300	2,220	
MW-3	6/24/2022	<0.00100	<0.00100	<0.00100	<0.00300	436	
MW-4	6/24/2022	Not Sampled - LNAPL					LNAPL (1.07')
Trip Blank	6/24/2022	<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 (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

Figures



Imagery Source: 2014 Google Earth

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

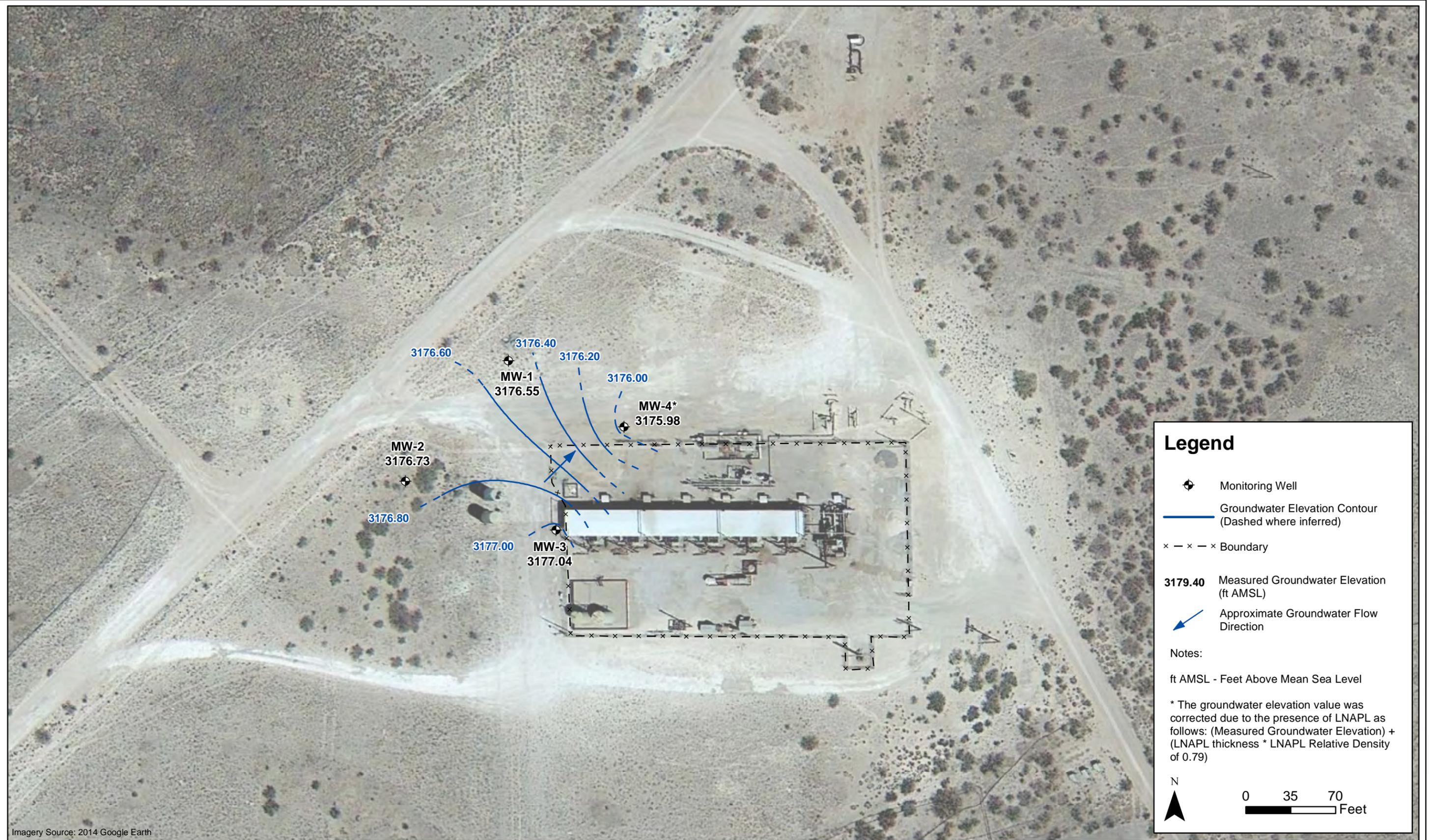


Tasman Geosciences, Inc.
 6855 W. 119th Ave
 Broomfield, CO 80020

DCP Midstream
Burton Flats Booster Station
 Groundwater Monitoring Summary Report

Site Map with Monitoring
 Well Locations

Figure
 2



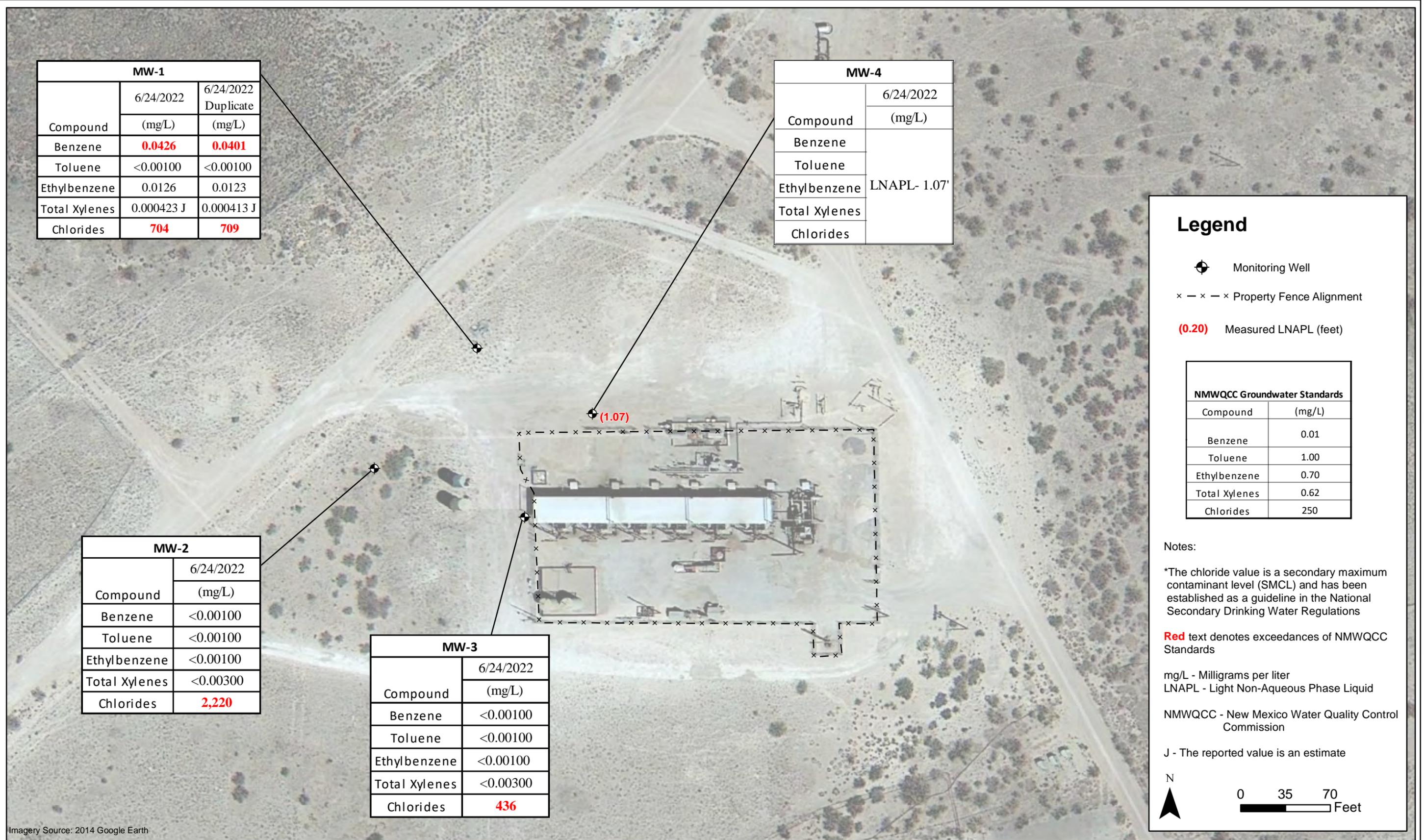
DATE:	July 2022
DESIGNED BY:	J. Watts
DRAWN BY:	L. Reed


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

DCP Midstream
Burton Flats Booster Station
 Second Quarter 2022 Groundwater Monitoring
 Summary Report

Groundwater Elevation
 Contour Map
 (June 24, 2022)

Figure
3



MW-1		
Compound	6/24/2022	6/24/2022 Duplicate
	(mg/L)	(mg/L)
Benzene	0.0426	0.0401
Toluene	<0.00100	<0.00100
Ethylbenzene	0.0126	0.0123
Total Xylenes	0.000423 J	0.000413 J
Chlorides	704	709

MW-4	
Compound	6/24/2022
	(mg/L)
Benzene	LNAPL- 1.07'
Toluene	
Ethylbenzene	
Total Xylenes	
Chlorides	

Legend

- Monitoring Well
- Property Fence Alignment
- (0.20) Measured LNAPL (feet)

NMWQCC Groundwater Standards	
Compound	(mg/L)
Benzene	0.01
Toluene	1.00
Ethylbenzene	0.70
Total Xylenes	0.62
Chlorides	250

Notes:

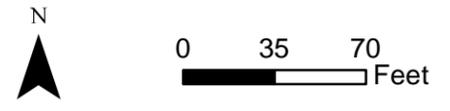
*The chloride value is a secondary maximum contaminant level (SMCL) and has been established as a guideline in the National Secondary Drinking Water Regulations

Red text denotes exceedances of NMWQCC Standards

mg/L - Milligrams per liter
 LNAPL - Light Non-Aqueous Phase Liquid

NMWQCC - New Mexico Water Quality Control Commission

J - The reported value is an estimate



MW-2	
Compound	6/24/2022
	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	2,220

MW-3	
Compound	6/24/2022
	(mg/L)
Benzene	<0.00100
Toluene	<0.00100
Ethylbenzene	<0.00100
Total Xylenes	<0.00300
Chlorides	436

Imagery Source: 2014 Google Earth

DATE:	July 2022
DESIGNED BY:	J. Watts
DRAWN BY:	L. Reed

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

**DCP Midstream
 Burton Flats Booster Station**
 Second Quarter 2022 Groundwater Monitoring
 Summary Report

Analytical Results
 Map
 (June 24, 2022)

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)		0.005	1.00	0.70	0.62	250	
MW-1	12/14/2011	0.140	0.0034	0.200	0.111	665	Duplicate sample collected
MW-1	4/26/2012	0.153	<0.001	0.229	0.0073	584	
MW-1	6/20/2012	0.0967	<0.001	0.284	0.0474	651	Duplicate sample collected
MW-1	9/26/2012	0.0615	<0.001	0.0803	0.0015	590	
MW-1	12/5/2012	0.020	<0.001	0.17	0.037	599	
MW-1	2/21/2013	0.0021	<0.001	0.0058	<0.003	668	Duplicate sample collected
MW-1	6/3/2013	0.0049	<0.001	0.0048	<0.001	703	Duplicate sample collected
MW-1	9/11/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	12/3/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	2/26/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	6/2/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	9/24/2014	Third Quarter 2014 Sampling Suspended - Regional Flooding					
MW-1	12/3/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	2/27/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	6/2/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	8/31/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	12/15/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-1	3/21/2016	0.0450	<0.0010	0.080	0.010	685	
MW-1	6/20/2016	0.082	<0.0010	0.10	0.0072	700	
MW-1	9/26/2016	0.035	<0.0050	0.033	<0.015	705	
MW-1	12/19/2016	0.051	<0.0010	0.040	0.0035	769	
MW-1	3/6/2017	0.044	<0.0010	0.025	0.0012	733	Duplicate sample collected
MW-1 (Duplicate)	3/6/2017	0.054	<0.0010	0.035	0.0014	740	
MW-1	6/19/2017	0.043	<0.0010	0.020	<0.0010	671	
MW-1	9/27/2017	0.00867	<0.0010	0.00359	<0.0030	649	Duplicate Sample Collected
MW-1 (Duplicate)	9/27/2017	0.00958	<0.0010	0.00389	<0.0030	608	
MW-1	12/18/2017	0.0204	<0.0010	0.00522	<0.0030	679	Duplicate Sample Collected
MW-1 (Duplicate)	12/18/2017	0.0179	<0.0010	0.00502	<0.0030	778	
MW-1	3/12/2018	0.0299	<0.0010	0.0199	0.00114 J	764	Duplicate Sample Collected
MW-1 (Duplicate)	3/12/2018	0.0399	<0.0010	0.0230	<0.0030	770	
MW-1	6/25/2018	0.0255	<0.0010	0.0255	<0.0030	623	Duplicate Sample Collected
MW-1 (Duplicate)	6/25/2018	0.0281	<0.0010	0.0277	<0.0030	632	
MW-1	9/17/2018	0.0115	<0.0010	0.0063	<0.0030	668	Duplicate Sample Collected
MW-1 (Duplicate)	9/17/2018	0.0105	<0.0010	0.0060	<0.0030	641	
MW-1	12/10/2018	0.000641 J	<0.0010	0.00115	<0.0030	1,180	Duplicate Sample Collected
MW-1 (Duplicate)	12/10/2018	0.000712 J	<0.0010	0.00126	<0.0030	1,230	
MW-1	3/21/2019	0.0018	<0.0010	0.00159	<0.0030	667	Duplicate Sample Collected
MW-1 (Duplicate)	3/21/2019	0.0026	<0.0010	0.00144	<0.0030	680	
MW-1	6/13/2019	0.0316	<0.0010	0.0232	<0.0030	774	Duplicate Sample Collected
MW-1 (Duplicate)	6/13/2019	0.0294	<0.0010	0.0216	<0.0030	768	
MW-1	9/17/2019	0.00456	<0.0010	0.00219	<0.0030	654	Duplicate Sample Collected
MW-1 (Duplicate)	9/17/2019	0.0059	<0.0010	0.00272	<0.0030	768	
MW-1	12/9/2019	0.00713	<0.0010	0.00789	0.00161 J	681	Duplicate Sample Collected
MW-1 (Duplicate)	12/9/2019	0.00772	<0.0010	0.00827	0.00166 J	684	
MW-1	6/19/2020	0.02780	<0.0010	0.01900	0.00160 J	908	Duplicate Sample Collected
MW-1 (Duplicate)	6/19/2020	0.02770	<0.0010	0.01870	0.00139 J	927	
MW-1	12/11/2020	0.0439	<0.00100	0.0247	0.00770	743	Duplicate Sample Collected
MW-1 (Duplicate)	12/11/2020	0.0445	<0.00100	0.0248	0.00769	734	
MW-1	3/24/2021	0.0386	<0.00100	0.0224	0.00599	786	Duplicate Sample Collected
MW-1 (Duplicate)	3/24/2021	0.0323	<0.00100	0.0188	0.00456	781	
MW-1	6/18/2021	0.0356	<0.00100	0.0127	0.00263 J	848	Duplicate Sample Collected
MW-1 (Duplicate)	6/18/2021	0.0375	<0.00100	0.0136	0.00279 J	844	

**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-1	9/24/2021	0.0403	<0.00100	0.0138	0.00203 J	814	Duplicate Sample Collected	
MW-1 (Duplicate)	9/24/2021	0.0448	<0.00100	0.0170	0.00289 J	868		
MW-1	12/21/2021	0.0326	<0.00100	0.0108	0.00182 J	743	Duplicate Sample Collected	
MW-1 (Duplicate)	12/21/2021	0.0323	<0.00100	0.0108	0.00198 J	741		
MW-1	3/23/2022	0.0167	<0.00100	0.00872	0.00280 J	818	Duplicate Sample Collected	
MW-1 (Duplicate)	3/23/2022	0.00284	<0.00100	0.00114	0.000235 J	826		
MW-1	6/24/2022	0.0426	<0.00100	0.0126	0.000423 J	704	Duplicate Sample Collected	
MW-1 (Duplicate)	6/24/2022	0.0401	<0.00100	0.0123	0.000413 J	709		
MW-2	12/14/2011	<0.001	<0.001	<0.001	<0.003	1,170		
MW-2	4/26/2012	<0.001	<0.001	<0.001	<0.003	1,040		
MW-2	6/20/2012	<0.001	<0.001	<0.001	<0.003	1,150		
MW-2	9/26/2012	<0.001	<0.001	<0.001	<0.003	1,130		
MW-2	12/5/2012	<0.001	<0.001	<0.001	<0.003	1,120	Duplicate sample collected	
MW-2	2/21/2013	<0.001	<0.001	<0.001	<0.003	1,250		
MW-2	6/3/2013	<0.001	<0.001	<0.001	<0.001	1,150		
MW-2	9/11/2013	<0.001	<0.001	<0.001	<0.001	1,410	Duplicate sample collected	
MW-2	12/3/2013	<0.001	<0.001	<0.001	<0.001	1,120	Duplicate sample collected	
MW-2	2/26/2014	<0.001	<0.001	<0.001	<0.001	1,220	Duplicate sample collected	
MW-2 (Duplicate)	2/26/2014	<0.001	<0.001	<0.001	<0.001	1,270		
MW-2	6/2/2014	<0.001	<0.001	<0.001	<0.001	1,270	Duplicate sample collected	
MW-2 (Duplicate)	6/2/2014	<0.001	<0.001	<0.001	<0.001	1,290		
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	1,300	Duplicate sample collected	
MW-2 (Duplicate)	12/3/2014	<0.001	<0.001	<0.001	<0.001	1,410		
MW-2	2/27/2015	<0.001	<0.001	<0.001	<0.003	1,440	Duplicate sample collected	
MW-2 (Duplicate)	2/27/2015	<0.001	<0.001	<0.001	<0.003	1,440		
MW-2	6/2/2015	<0.001	<0.001	<0.001	<0.003	1,650	Duplicate sample collected	
MW-2 (Duplicate)	6/2/2015	<0.001	<0.001	<0.001	<0.003	1,810		
MW-2	8/31/2015	<0.001	<0.001	<0.001	<0.003	1,420	Duplicate sample collected	
MW-2 (Duplicate)	8/31/2015	<0.001	<0.001	<0.001	<0.003	1,440		
MW-2	12/15/2015	<0.001	<0.001	<0.001	<0.003	1,350	Duplicate sample collected	
MW-2 (Duplicate)	12/15/2015	<0.001	<0.001	<0.001	<0.003	1,350		
MW-2	3/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	1,300		
MW-2	6/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	1,280		
MW-2	9/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	1,310		
MW-2	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0030	1,560	Duplicate sample collected	
MW-2 (Duplicate)	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0030	1,350		
MW-2	3/6/2017	<0.0010	<0.0010	<0.0010	<0.0010	1,210		
MW-2	6/19/2017	<0.0010	<0.0010	<0.0010	<0.0010	1,480		
MW-2	9/27/2017	<0.0010	<0.0010	<0.0010	<0.0030	1,530		
MW-2	12/18/2017	<0.0010	<0.0010	<0.0010	<0.0030	1,300		
MW-2	3/12/2018	<0.0010	<0.0010	<0.0010	<0.0030	1,290		
MW-2	6/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	1,490		
MW-2	9/17/2018	<0.0010	<0.0010	<0.0010	<0.0030	2,130		
MW-2	12/10/2018	<0.0010	<0.0010	<0.0010	<0.0030	3,780		
MW-2	3/21/2019	<0.0010	<0.0010	<0.0010	<0.0030	1,380		
MW-2	6/13/2019	<0.0010	<0.0010	<0.0010	<0.0030	1,860		
MW-2	9/17/2019	<0.0010	<0.0010	<0.0010	<0.0030	2,380		
MW-2	12/9/2019	<0.0010	<0.0010	<0.0010	<0.0030	1,870		
MW-2	6/19/2020	<0.0010	<0.0010	<0.0010	<0.0030	2,220		
MW-2	12/11/2020	<0.00100	<0.00100	<0.00100	<0.00300	2,160		

**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-2	3/24/2021	0.000195 J	<0.00100	<0.00100	<0.00300	1,860		
MW-2	6/18/2021	<0.00100	<0.00100	<0.00100	<0.00300	2,120		
MW-2	9/24/2021	<0.00100	<0.00100	<0.00100	<0.00300	2,120		
MW-2	12/21/2021	0.000114 J	<0.00100	<0.00100	<0.00300	435		
MW-2	3/23/2022	<0.00100	<0.00100	<0.00100	0.00112 J	1,870		
MW-2	6/24/2022	<0.00100	<0.00100	<0.00100	<0.00300	2,220		
MW-3	12/14/2011	<0.001	<0.001	<0.001	<0.003	426		
MW-3	4/26/2012	<0.001	<0.001	<0.001	<0.003	406	Duplicate sample collected	
MW-3	6/20/2012	<0.001	<0.001	<0.001	<0.003	435		
MW-3	9/26/2012	<0.001	<0.001	0.00057	<0.003	447	Duplicate sample collected	
MW-3	12/5/2012	<0.001	<0.001	<0.001	<0.003	444		
MW-3	2/21/2013	<0.001	<0.001	<0.001	<0.003	503		
MW-3	6/12/2013	<0.001	<0.001	<0.001	<0.001	474		
MW-3	9/11/2013	<0.001	<0.001	<0.001	<0.001	589		
MW-3	12/3/2013	<0.001	<0.001	<0.001	<0.001	432		
MW-3	2/26/2014	<0.001	<0.001	<0.001	<0.001	484		
MW-3	6/2/2014	<0.001	<0.001	<0.001	<0.001	519		
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	294		
MW-3	2/27/2015	<0.001	<0.001	<0.001	<0.003	301		
MW-3	6/2/2015	<0.001	<0.001	<0.001	<0.003	384		
MW-3	8/31/2015	<0.001	<0.001	<0.001	<0.003	386		
MW-3	12/15/2015	<0.001	<0.001	<0.001	<0.003	568		
MW-3	3/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	484	Duplicate sample collected	
MW-3 (Duplicate)	3/21/2016	<0.0010	<0.0010	<0.0010	<0.0030	526		
MW-3	6/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	414	Duplicate sample collected	
MW-3 (Duplicate)	6/20/2016	<0.0010	<0.0010	<0.0010	<0.0030	383		
MW-3	9/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	320	Duplicate sample collected	
MW-3 (Duplicate)	9/26/2016	<0.0010	<0.0010	<0.0010	<0.0030	324		
MW-3	12/19/2016	<0.0010	<0.0010	<0.0010	<0.0030	285		
MW-3	3/6/2017	<0.0010	<0.0010	<0.0010	<0.0010	466		
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	251		
MW-3	9/27/2017	<0.0010	<0.0010	<0.0010	<0.0030	269		
MW-3	12/18/2017	<0.0010	<0.0010	<0.0010	<0.0030	310		
MW-3	3/12/2018	<0.0010	<0.0010	<0.0010	<0.0030	253		
MW-3	6/25/2018	<0.0010	<0.0010	<0.0010	<0.0030	258		
MW-3	9/17/2018	<0.0010	<0.0010	<0.0010	<0.0030	277		
MW-3	12/10/2018	<0.0010	<0.0010	<0.0010	<0.0030	429		
MW-3	3/21/2019	<0.0010	<0.0010	<0.0010	<0.0030	309		
MW-3	6/13/2019	<0.0010	<0.0010	<0.0010	<0.0030	369		
MW-3	9/17/2019	0.00426	<0.0010	<0.0010	<0.0030	333		
MW-3	12/9/2019	0.00216	<0.0010	<0.0010	<0.0030	339		
MW-3	6/19/2020	0.000240 J	<0.0010	<0.0010	<0.0030	372		
MW-3	12/11/2020	<0.00100	<0.00100	<0.00100	<0.00300	420		
MW-3	3/24/2021	0.000352 J	0.000345 J	<0.00100	<0.00300	410		
MW-3	6/18/2021	<0.00100	<0.00100	<0.00100	<0.00300	436		
MW-3	9/24/2021	0.000125 J	<0.00100	<0.00100	<0.00300	443		
MW-3	12/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	1990		
MW-3	3/23/2022	0.00110	0.00119	<0.00100	0.000290 J	434		
MW-3	6/24/2022	<0.00100	<0.00100	<0.00100	<0.00300	436		

**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	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	6/20/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	9/26/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/5/2012	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	2/21/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	6/3/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	9/11/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/3/2013	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	2/26/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	6/2/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	9/24/2014	Third Quarter 2014 Sampling Suspended - Regional Flooding					
MW-4	12/3/2014	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	2/27/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	6/2/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	8/31/2015	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	
MW-4	12/15/2015	LNAPL	LNAPL	LNAPL	LNAPL	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	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL (0.18 feet)
MW-4	9/17/2018	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL (0.5 feet)
MW-4	12/10/2018	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL (0.59 feet)
MW-4	3/21/2019	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL (0.65 feet)
MW-4	6/13/2019	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL	LNAPL (0.55 feet)
MW-4	9/17/2019			LNAPL			LNAPL (0.23 feet)
MW-4	12/9/2019			LNAPL			LNAPL (0.39 feet)
MW-4	6/19/2020			LNAPL			LNAPL
MW-4	12/11/2020			LNAPL			LNAPL
MW-4	3/24/2021			LNAPL			LNAPL
MW-4	6/18/2021			LNAPL			LNAPL
MW-4	9/24/2021			LNAPL			LNAPL
MW-4	12/21/2021			LNAPL			LNAPL
MW-4	3/23/2022			LNAPL			LNAPL
MW-4	6/24/2022			LNAPL			LNAPL (1.07 feet)
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	

**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	
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	12/9/2019	<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	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	
Trip Blank	6/18/2021	NA	NA	NA	NA	NA	
Trip Blank	9/24/2021	0.000372 J	<0.00100	<0.00100	<0.00100	NA	
Trip Blank	12/21/2021	<0.00100	<0.00100	<0.00100	<0.00300	NA	
Trip Blank	3/23/2022	NA	NA	NA	NA	NA	No Trip Blank
Trip Blank	6/24/2022	<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 (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 #: L1508947



ANALYTICAL REPORT

July 15, 2022

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

DCP Midstream - Tasman

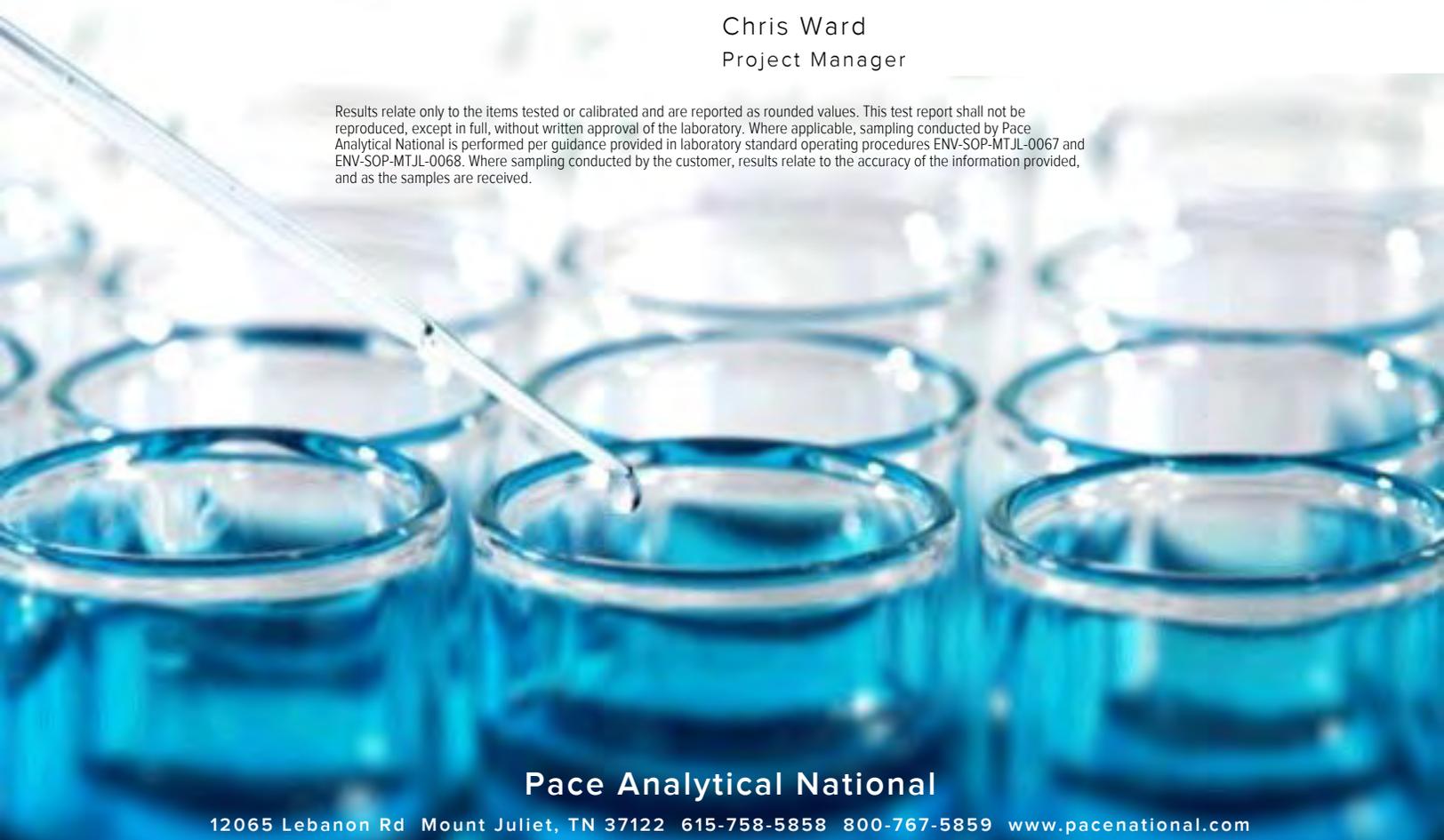
Sample Delivery Group: L1508947
 Samples Received: 06/25/2022
 Project Number:
 Description: Burton Flats Booster Station

Report To: Kyle Norman
 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

Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	4	
Sr: Sample Results	5	
MW-1 L1508947-01	5	
MW-2 L1508947-02	6	
MW-3 L1508947-03	7	
DUPLICATE L1508947-04	8	
TRIP BLANK L1508947-05	9	
Qc: Quality Control Summary	10	
Wet Chemistry by Method 9056A	10	
Volatile Organic Compounds (GC/MS) by Method 8260B	11	
Gl: Glossary of Terms	12	
Al: Accreditations & Locations	13	
Sc: Sample Chain of Custody	14	

MW-1 L1508947-01 GW

Collected by
Becky Griffin

Collected date/time
06/24/22 08:15

Received date/time
06/25/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1893982	100	07/13/22 11:28	07/13/22 11:28	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1888512	1	07/01/22 05:52	07/01/22 05:52	ACG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

MW-2 L1508947-02 GW

Collected by
Becky Griffin

Collected date/time
06/24/22 08:35

Received date/time
06/25/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1893982	100	07/13/22 11:41	07/13/22 11:41	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1888512	1	07/01/22 06:12	07/01/22 06:12	ACG	Mt. Juliet, TN

MW-3 L1508947-03 GW

Collected by
Becky Griffin

Collected date/time
06/24/22 08:55

Received date/time
06/25/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1893982	10	07/13/22 11:54	07/13/22 11:54	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1888512	1	07/01/22 06:32	07/01/22 06:32	ACG	Mt. Juliet, TN

DUPLICATE L1508947-04 GW

Collected by
Becky Griffin

Collected date/time
06/24/22 00:00

Received date/time
06/25/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 9056A	WG1893982	100	07/13/22 12:07	07/13/22 12:07	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1888512	1	07/01/22 06:51	07/01/22 06:51	ACG	Mt. Juliet, TN

TRIP BLANK L1508947-05 GW

Collected by
Becky Griffin

Collected date/time
06/24/22 13:00

Received date/time
06/25/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1888512	1	07/01/22 03:35	07/01/22 03:35	ACG	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

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

Collected date/time: 06/24/22 08:15

L1508947

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	704		37.9	100	100	07/13/2022 11:28	WG1893982

1 Cp

2 Tc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	0.0426		0.0000941	0.00100	1	07/01/2022 05:52	WG1888512
Toluene	U		0.000278	0.00100	1	07/01/2022 05:52	WG1888512
Ethylbenzene	0.0126		0.000137	0.00100	1	07/01/2022 05:52	WG1888512
Total Xylenes	0.000423	J	0.000174	0.00300	1	07/01/2022 05:52	WG1888512
(S) Toluene-d8	86.9			80.0-120		07/01/2022 05:52	WG1888512
(S) 4-Bromofluorobenzene	106			77.0-126		07/01/2022 05:52	WG1888512
(S) 1,2-Dichloroethane-d4	101			70.0-130		07/01/2022 05:52	WG1888512

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 06/24/22 08:35

L1508947

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Chloride	2220		37.9	100	100	07/13/2022 11:41	WG1893982

1 Cp

2 Tc

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	07/01/2022 06:12	WG1888512
Toluene	U		0.000278	0.00100	1	07/01/2022 06:12	WG1888512
Ethylbenzene	U		0.000137	0.00100	1	07/01/2022 06:12	WG1888512
Total Xylenes	U		0.000174	0.00300	1	07/01/2022 06:12	WG1888512
(S) Toluene-d8	88.1			80.0-120		07/01/2022 06:12	WG1888512
(S) 4-Bromofluorobenzene	102			77.0-126		07/01/2022 06:12	WG1888512
(S) 1,2-Dichloroethane-d4	100			70.0-130		07/01/2022 06:12	WG1888512

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 06/24/22 08:55

L1508947

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Chloride	436		3.79	10.0	10	07/13/2022 11:54	WG1893982

- 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	U		0.0000941	0.00100	1	07/01/2022 06:32	WG1888512
Toluene	U		0.000278	0.00100	1	07/01/2022 06:32	WG1888512
Ethylbenzene	U		0.000137	0.00100	1	07/01/2022 06:32	WG1888512
Total Xylenes	U		0.000174	0.00300	1	07/01/2022 06:32	WG1888512
(S) Toluene-d8	90.8			80.0-120		07/01/2022 06:32	WG1888512
(S) 4-Bromofluorobenzene	105			77.0-126		07/01/2022 06:32	WG1888512
(S) 1,2-Dichloroethane-d4	96.5			70.0-130		07/01/2022 06:32	WG1888512

Collected date/time: 06/24/22 00:00

L1508947

Wet Chemistry by Method 9056A

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Chloride	709		37.9	100	100	07/13/2022 12:07	WG1893982

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	0.0401		0.0000941	0.00100	1	07/01/2022 06:51	WG1888512
Toluene	U		0.000278	0.00100	1	07/01/2022 06:51	WG1888512
Ethylbenzene	0.0123		0.000137	0.00100	1	07/01/2022 06:51	WG1888512
Total Xylenes	0.000413	J	0.000174	0.00300	1	07/01/2022 06:51	WG1888512
(S) Toluene-d8	89.4			80.0-120		07/01/2022 06:51	WG1888512
(S) 4-Bromofluorobenzene	102			77.0-126		07/01/2022 06:51	WG1888512
(S) 1,2-Dichloroethane-d4	94.1			70.0-130		07/01/2022 06:51	WG1888512

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 06/24/22 13:00

L1508947

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

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	07/01/2022 03:35	WG1888512
Toluene	U		0.000278	0.00100	1	07/01/2022 03:35	WG1888512
Ethylbenzene	U		0.000137	0.00100	1	07/01/2022 03:35	WG1888512
Total Xylenes	U		0.000174	0.00300	1	07/01/2022 03:35	WG1888512
(S) Toluene-d8	88.8			80.0-120		07/01/2022 03:35	WG1888512
(S) 4-Bromofluorobenzene	106			77.0-126		07/01/2022 03:35	WG1888512
(S) 1,2-Dichloroethane-d4	103			70.0-130		07/01/2022 03:35	WG1888512

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

Wet Chemistry by Method 9056A

[L1508947-01,02,03,04](#)

Method Blank (MB)

(MB) R3814675-1 07/13/22 09:20

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

¹Cp

²Tc

³Ss

L1509024-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1509024-05 07/13/22 13:49 • (DUP) R3814675-4 07/13/22 14:01

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	257	203	1	23.4	E J3	15

⁴Cn

⁵Sr

L1509135-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1509135-01 07/13/22 15:56 • (DUP) R3814675-7 07/13/22 16:09

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Chloride	140	148	1	5.46		15

⁶Qc

⁷Gl

⁸Al

Laboratory Control Sample (LCS)

(LCS) R3814675-8 07/13/22 10:52

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Chloride	40.0	39.4	98.6	80.0-120	

⁹Sc

L1508968-04 Original Sample (OS) • Matrix Spike (MS)

(OS) L1508968-04 07/13/22 12:19 • (MS) R3814675-3 07/13/22 12:32

Analyte	Spike Amount	Original Result	MS Result	MS Rec.	Dilution	Rec. Limits	MS Qualifier
Chloride	50.0	26.3	76.9	101	1	80.0-120	

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

[L1508947-01,02,03,04,05](#)

Method Blank (MB)

(MB) R3811783-3 07/01/22 03:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	87.6			80.0-120
(S) 4-Bromofluorobenzene	105			77.0-126
(S) 1,2-Dichloroethane-d4	103			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

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

(LCS) R3811783-1 07/01/22 02:17 • (LCSD) R3811783-2 07/01/22 02:37

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.00500	0.00581	0.00613	116	123	70.0-123			5.36	20
Toluene	0.00500	0.00461	0.00457	92.2	91.4	79.0-120			0.871	20
Ethylbenzene	0.00500	0.00494	0.00500	98.8	100	79.0-123			1.21	20
Xylenes, Total	0.0150	0.0145	0.0149	96.7	99.3	79.0-123			2.72	20
(S) Toluene-d8				88.4	88.3	80.0-120				
(S) 4-Bromofluorobenzene				107	105	77.0-126				
(S) 1,2-Dichloroethane-d4				102	105	70.0-130				

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

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.

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

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

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

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



DCP Midstream - Tasman
 2620 W. Marland Blvd
 Hobbs, NM 88240

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

Analysis / Container / Preservative										
Pres										
Chk										

Chain of Custody

Pace
 PEOPLE ADVANCING SCIENCE

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

Report to:
Kyle Norman

Project Description:
Burton Flats Booster Station

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

City/State Collected:
 Please Circle:
 PT MT CT ET

Phone: 720-218-4003

Client Project #

Collected by (print):
BECKY GRIFFIN

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Lab Project #
DCPTASMAN-BURTONFLAT

P.O. #
0000524217

Quote #

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

Date Results Needed

No. of Cntrs

Chloride 125mlHDPE-NoPres	V8260BTEX 40mlAmb-HCl											

SDG # **U508947**

A053

Acctnum: DCP TASMAN

Template: T127771

Prelogin: P930532

PM: 824 - Chris Ward

PB: **6/10/22 MW**

Shipped Via: **FedEX Ground**

Remarks | Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs												
MW-1		GW		6-24-22	0815	4	X	X										-01
MW-2		GW		(0835)))										-02
MW-3		GW		(0855)))										-03
MW-4		GW																
DUPLICATE		GW		6-24-22		4	X	X										-04
		GW																
TRIP BLANK		GW		6-24-22	1300	1												-05

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

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
 UPS ___ FedEx ___ Courier _____

Tracking # **5719 6192 7380**

Sample Receipt Checklist

COC Seal Present/Intact: NP N

COC Signed/Accurate: N

Bottles arrive intact: N

Correct bottles used: N

Sufficient volume used: N

If Applicable

VOA Zero Headspace: N

Preservation Correct/Checked: N

RAD Screen <0.5 mR/hr: N

Relinquished by: (Signature) 	Date: 6-24-22	Time: 1400	Received by: (Signature)	Trip Blank Received: Yes/No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Relinquished by: (Signature) 	Date:	Time:	Received by: (Signature)	Temp: 14.1 °C Bottles Received: 18
Relinquished by: (Signature)	Date:	Time:	Received for Job by: (Signature) 	Date: 6/25/22 Time: 900

Condition:
 NCF OK

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

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

CONDITIONS

Action 152659

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 152659
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	First quarter 2022 groundwater monitoring & activities summary report (GWM&ASR) accepted for the record. See second quarter 2022 GWM&ASR for most updated status. Review of Second Quarter 2022 GWM&ASR: Content satisfactory. 1. Continue quarterly groundwater monitoring and sampling at the monitoring locations identified within the report recommendations. 2. Continue monitoring and evaluation of the passive LNAPL skimmer and recovery system. 3. Continue quarterly EFR event(s) at monitoring wells MW-1 and MW-4 during the first quarter 2022. 4. OCD approves report submittal changed from quarterly to bi-annually. 5. Submit next report no later than December 30, 2022.	10/25/2022