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First Half 2022 Semi-Annual Groundwater Monitoring Summary Report

Linam Ranch Natural Gas Plant
Lea County, New Mexico
GW-015

Prepared for:



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

Prepared by:



6855 W. 119th Avenue
Broomfield, Colorado 80020

May 17, 2022



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1. Introduction

This report summarizes groundwater monitoring and remediation activities conducted during the first half 2022 at the Linam Ranch Natural Gas Plant (Site) in Lea County, New Mexico (Figure 1). Tasman Geosciences (Tasman) performed these activities on behalf of DCP Midstream (DCP). The field activities described herein were conducted with the purpose of monitoring groundwater flow and quality conditions and assessing the presence of light non-aqueous phase liquid (LNAPL) hydrocarbons in the Site subsurface. Current Site conditions were evaluated from field data and analytical laboratory results collected on March 24, 2022. The data collected was used to develop the groundwater elevation map and analytical results figure presented herein.

2. Site Location and Background

The Site is located in New Mexico Oil Conservation Division (OCD) designated Unit B, Section 6, Township 19 South, Range 37 East (Figure 1). The approximate facility coordinates are 32.6965 degrees north and 103.2883 degrees west. The facility is an active natural gas processing facility and includes an office complex and storage areas in addition to the main plant.

In February 1994, hydrocarbon-impacted groundwater was detected during subsurface investigations performed at two areas within the plant. A follow-up subsurface investigation was performed in May 1994 to delineate the horizontal extent of hydrocarbon-impacted soils and groundwater. The OCD subsequently requested a work plan to completely define the extent of groundwater contamination at the plant. In October 1995, the OCD approved a quarterly sampling and monitoring program for the Site, which was reduced to semi-annual frequency in 1997 after the recommendations of a 1996 report submitted by Geoscience Consultants Ltd. (GCL).

There are currently twelve groundwater monitoring wells at the Site: MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-10D, and MW-11 (Figure 2); monitoring well MW-13 was destroyed during the second half of 2012 and has been removed from the sampling program. These wells were installed between 1991 and 1995.

3. Groundwater Monitoring

This section describes the groundwater field and laboratory activities performed during the first half 2022 semi-annual monitoring event on March 24, 2022. Monitoring activities included Site-wide groundwater gauging, LNAPL measurements, and groundwater sampling. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.



3.1 Groundwater and LNAPL Elevation Monitoring

Groundwater and LNAPL levels were measured to evaluate hydraulic characteristics and provide information regarding seasonal and annual fluctuations in groundwater elevations at the Site. During the reporting period, groundwater levels were measured at all 11 of the 12 Site monitoring wells with a Spill Buster preventing accurate measurement at MW-6.

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

A first half 2022 groundwater elevation map, included as Figure 3, indicates that groundwater flow at the Site trends generally to the southeast. Groundwater elevation ranges, average elevation changes from previous monitoring events, and calculated hydraulic gradients at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	First Half 2022 (3/24/2022)
Maximum Elevation (Well ID)	3,668.56' (MW-5)
Minimum Elevation (Well ID)	3,663.68' (MW-3)
Average Change from Previous Monitoring Event (ft) – All Wells	-0.69
Hydraulic Gradient (ft/ft) / (Well IDs)	0.0022 (MW-5 to MW-3)

LNAPL was observed during the gauging event at MW-4 (2.61 ft) and in future monitoring events will be removed to evaluate recovery rates or whether placement of a passive bailer would be beneficial. LNAPL is assumed to be present at MW-6, but this well is equipped with a spill buster and the thickness of LNAPL at MW-6 location has fluctuated since 2009 and was not measured during the reporting period.

3.2 Groundwater Quality Monitoring

After recording groundwater level measurements, groundwater samples were collected from 9 of the 12 wells. MW-4 was not sampled due to the presence of LNAPL (2.61 ft) but it is planned to be bailed off during subsequent events and potentially collect a sample; MW-6 was not sampled due to the presence of an active spill buster; and MW-7 was not sampled this event due to an insufficient amount of water needed for sample collection.

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



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

Table 2 summarizes BTEX concentrations in groundwater samples collected during the reporting period. Historical analytical results up to and including the March 24, 2022 event are included in Appendix A, and the laboratory analytical report for the first half 2022 event is included in Appendix B. Analytical results are also displayed on Figure 4.

Analytical results/observations are summarized below:

- Benzene was detected in exceedance of the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of (0.005 milligrams per liter [mg/L]) in monitoring wells MW-5 (0.151 mg/L), MW-10 (1.31 mg/L), and MW-10D (0.0276 mg/L, Duplicate 0.0285 mg/L).
- Ethylbenzene was detected in exceedance of the NMWQCC standard of 0.70 mg/L in monitoring well MW-5 with a concentration of 2.51 mg/L.
- Groundwater samples at remaining monitoring well locations were reported below applicable NMWQCC standards or below laboratory detection limits.

3.3 Data Quality Assurance / Quality Control

A trip blank and field duplicate sample (MW-10D) were collected during the March 2022 sampling event. The data was reviewed for compliance with the analytical method and the associated quality assurance/quality control (QA/QC) procedures. All samples were analyzed using the correct analytical methods and within the correct holding times. Chain of custody forms were in order and properly executed and indicate that samples were received at the proper temperature with no headspace. All data were reported using the correct method number and reporting units. QA/QC items of note for the first half 2022 include the following:

- Target analytes were not detected in the trip blank; and
- MW-10D and the associated duplicate sample exhibited benzene concentrations of 0.0276 mg/L and 0.0285 mg/L, respectively. The calculated relative percent difference (RPD) is 3.21%, which is within the target range of 20%.

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

4. Remediation Activities

Active LNAPL recovery using a Clean Earth Technologies Magnum Spill Buster™ automatic LNAPL recovery system (Magnum Spill Buster™) deployed at MW-6 was shut down in November 2018 based on the LNAPL being absent in the well at that time. Due to the presence of LNAPL observed at this location during the second half 2019, the Spill Buster was re-initiated on September 18, 2019. Recovery levels were not recorded following the first half 2020 sampling event; however, the recovery measurements have been collected semi-annually since that event. The LNAPL recovery tank for the Spill Buster contains approximately 120 gallons of LNAPL and approximately 70 gallons since re-initiation in late 2019, and the



recovery tank will continue to be gauged during subsequent events to determine the amount of LNAPL present.

5. Conclusions

Comparison of the first half semi-annual 2022 monitoring data with historical information provides the following general observations:

- Based on historical groundwater level measurements, groundwater elevations at the Site typically exhibit seasonal and annual fluctuations. Measurements collected during the first half 2022 monitoring event exhibited a decrease in elevation compared to the second half 2021. The observed decrease is likely due to seasonal groundwater fluctuations.
- Dissolved phase benzene concentrations above NMWQCC standards persist in the central portion of the Site, represented by wells MW-4 (dissolved phase and LNAPL), MW-5, MW-6 (dissolved phase and LNAPL), MW-10, and MW-10D. Generally, benzene concentrations at these locations demonstrate stable conditions. The benzene concentration at MW-11 decreased to below the NMWQCC standard during the first half 2022 for the first time since September 2018.
- While separate and dissolved phase hydrocarbon impacts persist on-Site, BTEX concentrations in downgradient monitoring wells MW-3 and MW-9 remain below laboratory detection limits.

6. Recommendations

Based on evaluation of first half 2022 and historical Site observations and monitoring results, the following recommendations have been developed for future activities:

- Continue semi-annual groundwater monitoring and sampling at the monitoring locations illustrated on Figure 2.
- Continue active LNAPL recovery at monitoring well MW-6 using Spill Buster LNAPL recovery system and install a passive bailer at MW-4 to assist with LNAPL recovery during 2022.

Tables

TABLE 1
FIRST HALF 2022 SEMI-ANNUAL
SUMMARY OF GROUNDWATER ELEVATION DATA
LINAM RANCH
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW-1	09/16/20	48.49			54.55	3718.29	3669.80	-0.65
MW-1	03/25/21	49.55			54.55	3718.29	3668.74	-1.06
MW-1	09/23/21	49.97			54.55	3718.29	3668.32	-0.42
MW-1	03/24/22	51.02			54.55	3718.29	3667.27	-1.05
MW-2	09/16/20	47.22			50.57	3714.80	3667.58	-0.38
MW-2	03/25/21	48.15			50.57	3714.80	3666.65	-0.93
MW-2	09/23/21	48.51			50.57	3714.80	3666.29	-0.36
MW-2	03/24/22	49.39			50.57	3714.80	3665.41	-0.88
MW-3	09/16/20	50.59			55.41	3715.50	3664.91	-0.19
MW-3	03/25/21	49.98			55.41	3715.50	3665.52	0.61
MW-3	09/23/21	51.40			55.41	3715.50	3664.10	-1.42
MW-3	03/24/22	51.82			55.41	3715.50	3663.68	-0.42
*MW-4	09/16/20	50.31	50.15	0.16	54.76	3720.46	3670.27	-0.58
*MW-4	03/25/21	51.45	50.85	0.60	54.76	3720.46	3669.46	-0.81
*MW-4	09/23/21	53.98	50.55	3.43	54.76	3720.46	3669.05	-0.41
*MW-4	03/24/22	54.20	51.59	2.61	54.76	3720.46	3668.22	-0.84
MW-5	09/16/20	51.10			56.62	3721.53	3670.43	-0.45
MW-5	03/25/21	51.40			56.62	3721.53	3670.13	-0.30
MW-5	09/23/21	52.13			56.62	3721.53	3669.40	-0.73
MW-5	03/24/22	52.97			56.62	3721.53	3668.56	-0.84
*MW-6	09/16/20	51.75	51.5	0.25	54.30	3720.99	3669.43	0.22
*MW-6	03/25/21	NM		NM	54.30	3720.99	NM	NM
*MW-6	09/23/21	53.25	52.71	0.54	54.30	3720.99	3668.15	NA
*MW-6	03/24/22	NM			54.30	3720.99	NM	NA
MW-7	09/16/20				DRY			
MW-7	03/25/21				DRY			
MW-7	09/23/21				DRY			
MW-7	03/24/22				DRY			
MW-8	09/16/20	47.04			58.05	3714.18	3667.14	-0.48
MW-8	03/25/21	47.80			58.05	3714.18	3666.38	-0.76
MW-8	09/23/21	48.25			58.05	3714.18	3665.93	-0.45
MW-8	03/24/22	49.09			58.05	3714.18	3665.09	-0.84
MW-9	09/16/20	53.77			59.35	3720.48	3666.71	-0.26
MW-9	03/25/21	54.27			59.35	3720.48	3666.21	-0.50
MW-9	09/23/21	54.79			59.35	3720.48	3665.69	-0.52
MW-9	03/24/22	55.27			59.35	3720.48	3665.21	-0.48
MW-10	09/16/20	53.84			66.10	3720.76	3666.92	-0.30
MW-10	03/25/21	54.40			66.10	3720.76	3666.36	-0.56
MW-10	09/23/21	54.97			66.10	3720.76	3665.79	-0.57
MW-10	03/24/22	55.44			66.10	3720.76	3665.32	-0.47
MW-10D	09/16/20	55.15			79.01	3720.85	3665.70	-0.29
MW-10D	03/25/21	55.74			79.01	3720.85	3665.11	-0.59
MW-10D	09/23/21	56.28			79.01	3720.85	3664.57	-0.54
MW-10D	03/24/22	56.80			79.01	3720.85	3664.05	-0.52

TABLE 1
FIRST HALF 2022 SEMI-ANNUAL
SUMMARY OF GROUNDWATER ELEVATION DATA
LINAM RANCH
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event (1) (feet)
MW-11	09/16/20	55.06			63.27	3722.02	3666.96	-0.42
MW-11	03/25/21	55.70			63.27	3722.02	3666.32	-0.64
MW-11	09/23/21	56.37			63.27	3722.02	3665.65	-0.67
MW-11	03/24/22	56.90			63.27	3722.02	3665.12	-0.53
Average change in groundwater elevation (9/23/21 to 3/24/22)								-0.69

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during the most recent monitoring event.

amsl = feet above mean sea level

TOC = top of casing

Groundwater elevation = (TOC Elevation - Measured Depth to Water)

* Groundwater elevation was corrected for product thickness using the following calculation, when applicable:

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

LNAPL relative density is assumed to be approximately 0.75 grams per cubic centimeter (g/cm³)

** Monitoring well MW-6 has an active Spill Buster automatic LNAPL recovery pump installed. As such, the calculated groundwater elevations may not be representative of actual groundwater elevations within the well.

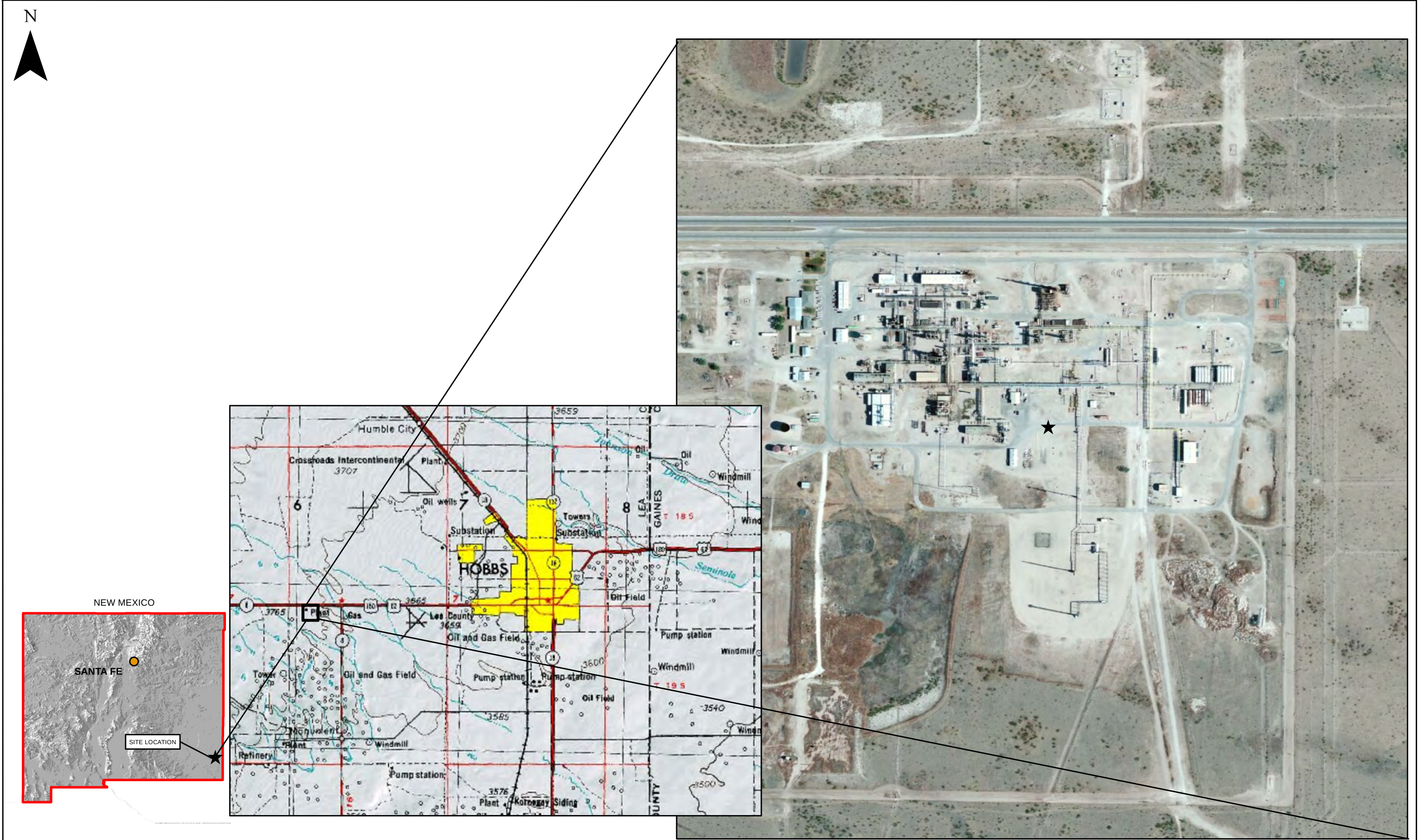
NM = Not Measured

NA = Not Applicable

TABLE 2
FIRST HALF SEMI-ANNUAL
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
LINAM RANCH
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		0.005	1.00	0.70	0.62	
MW-1	3/24/2022	0.000105 J	<0.00100	<0.00100	<0.00300	
MW-2	3/24/2022	0.000411 J	<0.00100	<0.00100	<0.00300	
MW-3	3/24/2022	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	3/24/2022	Not Sampled - LNAPL Present				LNAPL (2.61')
MW-5	3/24/2022	0.151	<0.0500	2.51	<0.150	
MW-6	3/24/2022	LNAPL				LNAPL (Spill Buster)
MW-7	3/24/2022	NS				DRY
MW-8	3/24/2022	<0.00100	<0.00100	<0.00100	<0.00300	
MW-9	3/24/2022	<0.00100	<0.00100	<0.00100	<0.00300	
MW-10	3/24/2022	1.31	0.0107 J	0.247	0.0497 J	
MW-10D	3/24/2022	0.0276	0.0201	0.00333	0.00513	Duplicate Sample Collected
MW-10D (Duplicate)	3/24/2022	0.0285	0.0212	0.00347	0.00498	
MW-11	3/24/2022	0.00411	<0.00100	<0.00100	0.000315 J	

Figures



DATE:	June 2014
DESIGNED BY:	T. Johansen
DRAWN BY:	D. Arnold



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

DCP Midstream
Linam Ranch Gas Plant
Unit B, Section 6, Township 19 South, Range 37 East
Lea County, New Mexico

Site Location
Map

Figure
1



DATE:	May 2019
DESIGNED BY:	B. Humphrey
DRAWN BY:	C. Olson

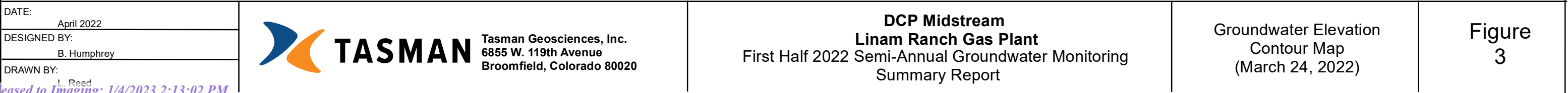


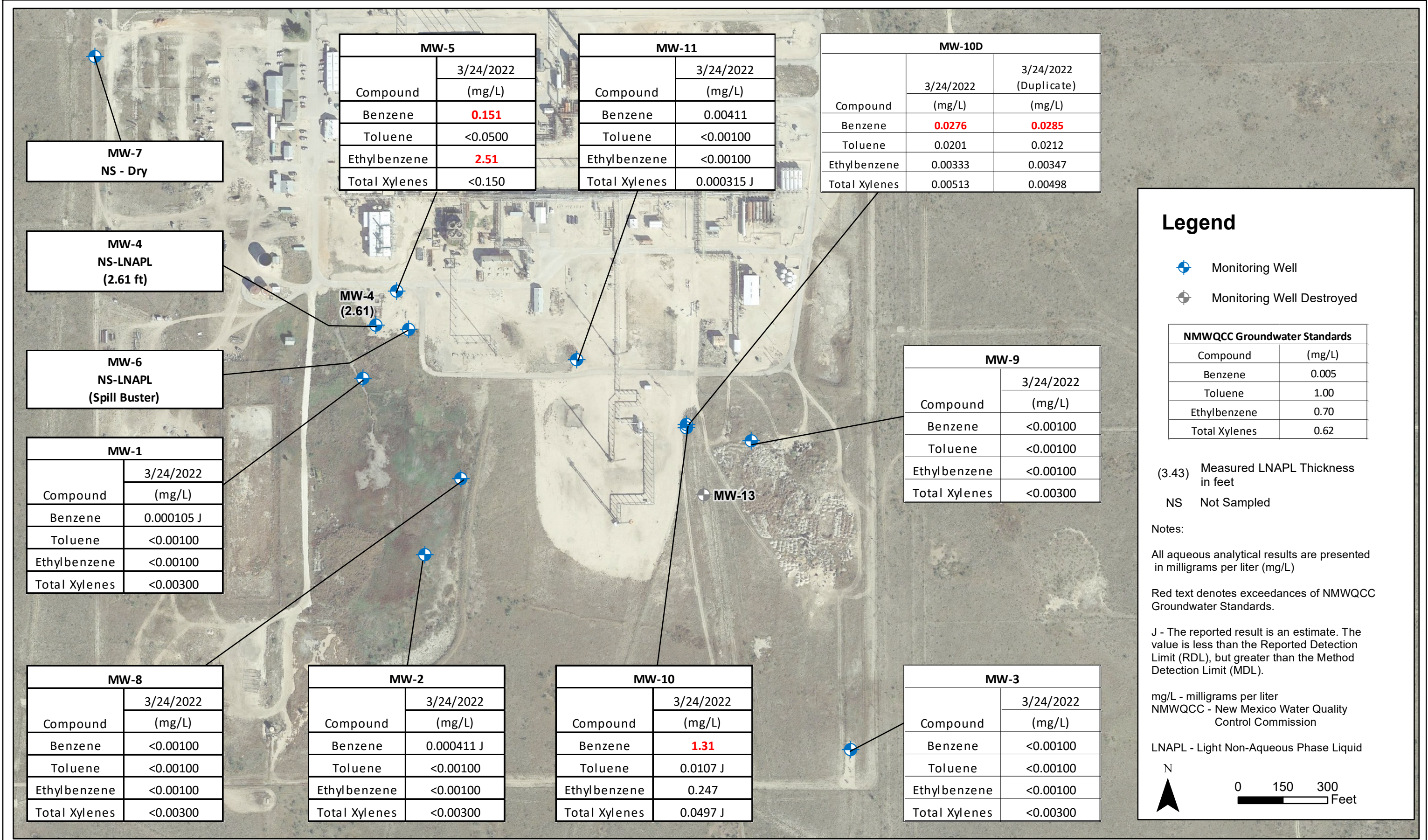
Tasman Geosciences, Inc.
6855 W. 119th Avenue
Broomfield, Colorado 80020

DCP Midstream
Linam Gas Plant
First Half 2022 Semi-Annual
Groundwater Monitoring Summary Report

Site Map with Monitoring
Well Locations

Figure
2





DATE: April 2022
DESIGNED BY: B. Humphrey
DRAWN BY: L. Reed



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

DCP Midstream
Linam Ranch Gas Plant
First Half 2022 Semi-Annual Groundwater Monitoring
Summary Report

Analytical Results
Map
(March 24, 2022)

Figure
4

Appendix A
Historical Analytical Results

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
LINAM RANCH
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		0.005	1.00	0.70	0.62	
MW-1	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-1	3/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-1	9/28/2010	<0.001	<0.002	<0.002	<0.004	
MW-1	4/28/2011	0.00054 J	<0.002	<0.002	<0.002	
MW-1	9/13/2011	<0.001	<0.002	<0.002	<0.004	
MW-1	3/5/2012	<0.005	<0.005	<0.005	<0.015	
MW-1	9/4/2012	<0.005	<0.005	<0.005	<0.015	
MW-1	2/18/2013	<0.001	<0.001	<0.001	<0.003	
MW-1	9/9/2013	0.012	<0.001	0.0024	0.0038	
MW-1	2/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-1	9/23/2014	<0.001	<0.001	<0.001	<0.003	
MW-1	2/24/2015	<0.001	<0.001	<0.001	<0.003	
MW-1	9/1/2015	<0.001	<0.001	<0.001	<0.003	
MW-1	3/24/2016	<0.001	<0.001	<0.001	<0.003	
MW-1	9/28/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1	3/7/2017	<0.0010	<0.0010	<0.0010	<0.0010	
MW-1	10/3/2017	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1	3/14/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1	9/7/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1	3/25/2019	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1	9/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1	6/23/2020	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1	9/16/2020	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1	3/25/2021	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1	9/23/2021	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1	3/24/2022	0.000105 J	<0.00100	<0.00100	<0.00300	
MW-2	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-2	3/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-2	9/28/2010	<0.001	<0.002	<0.002	<0.004	
MW-2	4/28/2011	<0.001	<0.002	<0.002	<0.002	
MW-2	9/12/2011	<0.001	<0.002	<0.002	<0.004	
MW-2	3/5/2012	<0.005	<0.005	<0.005	<0.015	
MW-2	9/4/2012	<0.005	<0.005	<0.005	<0.015	
MW-2	2/18/2013	<0.001	<0.001	<0.001	<0.003	
MW-2	9/9/2013	<0.001	<0.001	<0.01	<0.001	
MW-2	2/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-2	9/23/2014	NS	NS	NS	NS	Inaccessible
MW-2	2/24/2015	<0.001	<0.001	<0.001	<0.003	
MW-2	9/1/2015	<0.001	<0.001	<0.001	<0.003	
MW-2	3/24/2016	<0.001	<0.001	<0.001	<0.003	
MW-2	9/28/2016	NS				Well inaccessible due to flooding
MW-2	3/7/2017	<0.0010	<0.0010	<0.0010	<0.0010	
MW-2	10/3/2017	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	3/14/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	9/7/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	3/25/2019	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	9/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	6/23/2020	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	9/16/2020	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	3/25/2021	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	9/23/2021	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	3/24/2022	0.000411 J	<0.00100	<0.00100	<0.00300	
MW-3	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-3	3/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-3	9/28/2010	<0.001	<0.002	<0.002	<0.004	
MW-3	4/28/2011	<0.001	<0.002	<0.002	<0.002	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
LINAM RANCH
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		0.005	1.00	0.70	0.62	
MW-3	9/12/2011	<0.001	<0.002	<0.002	<0.004	
MW-3	3/5/2012	<0.005	<0.005	<0.005	<0.015	
MW-3	9/4/2012	<0.005	<0.005	<0.005	<0.015	
MW-3	2/18/2013	<0.001	<0.001	<0.001	<0.003	
MW-3	9/9/2013	<0.001	<0.001	<0.001	<0.001	
MW-3	2/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-3	9/23/2014	<0.001	<0.001	<0.001	<0.003	
MW-3	2/24/2015	<0.001	<0.001	<0.001	<0.003	
MW-3	9/1/2015	<0.001	<0.001	<0.001	<0.003	
MW-3	3/24/2016	<0.001	<0.001	<0.001	<0.003	
MW-3	9/28/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	3/7/2017	<0.0010	<0.0010	<0.0010	<0.0010	
MW-3	10/3/2017	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	3/14/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	9/7/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	3/26/2019	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	9/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	6/24/2020	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	9/16/2020	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	3/25/2021	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	9/23/2021	<0.0010	<0.0010	<0.0010	<0.0030	
MW-3	3/24/2022	<0.00100	<0.00100	<0.00100	<0.00300	
MW-4	9/24/2009	LNAPL				
MW-4	3/24/2010	LNAPL				
MW-4	9/28/2010	LNAPL				
MW-4	4/28/2011	LNAPL				LNAPL (0.23 feet)
MW-4	9/13/2011	LNAPL				LNAPL (0.28 feet)
MW-4	3/5/2012	LNAPL				LNAPL (0.34 feet)
MW-4	9/4/2012	LNAPL				LNAPL (0.43 feet)
MW-4	2/18/2013	LNAPL				LNAPL (0.47 feet)
MW-4	9/9/2013	LNAPL				LNAPL (0.06 feet)
MW-4	2/25/2014	LNAPL				LNAPL (0.02 feet)
MW-4	2/24/2015	9.8	<0.005	0.59	<0.015	LNAPL (0.01 feet)
MW-4	9/1/2015	8.6	<0.005	0.53	<0.015	
MW-4	3/24/2016	6.9	<0.005	0.38	<0.015	
MW-4	10/12/2016	5	<0.010	0.027	0.053	
MW-4	3/7/2017	8.9	<0.005	0.024	0.0051	
MW-4	10/3/2017	16.9	<0.100	0.618	<0.300	
MW-4	3/14/2018	18.7	<0.010	0.686	<0.030	
MW-4	9/7/2018	12.3	<0.200	0.74	<0.600	
MW-4	3/26/2019	15.9	<0.200	0.516	<0.600	
MW-4	9/18/2019	19.3	<0.0010	0.829	0.00356	
MW-4	6/23/2020	12.9	<0.0010	0.561	0.0351	
MW-4	9/16/2020	18.5	<0.100	0.601	<0.300	
MW-4	3/25/2021	17.3	<0.100	0.911	0.121 J	LNAPL (0.60 feet)
MW-4	9/23/2021	Not Sampled - LNAPL Present				LNAPL (3.43 feet)
MW-4	3/24/2022	Not Sampled - LNAPL Present				LNAPL (2.61')
MW-5	9/24/2009	0.0272	<0.002	0.227	<0.006	
MW-5	3/24/2010	0.13	<0.002	0.482	0.46	
MW-5	9/28/2010	0.0095	<0.004	0.188	<0.008	
MW-5	4/28/2011	0.149	<0.004	0.776	<0.004	
MW-5	9/13/2011	0.13	<0.010	0.86	<0.020	
MW-5	3/5/2012	0.24	<0.025	2	<0.075	
MW-5	9/4/2012	0.17	<0.005	1	0.038	Duplicate Sample Collected
MW-5	2/18/2013	0.21	<0.005	1.4	<0.015	Duplicate Sample Collected

APPENDIX A
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LINAM RANCH
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		0.005	1.00	0.70	0.62	
MW-5	9/9/2013	0.096	<0.001	0.89	<0.001	Duplicate Sample Collected
MW-5 (Duplicate)	9/9/2013	0.095	<0.001	0.9	<0.001	
MW-5	2/25/2014	0.18	<0.005	1.3	<0.005	
MW-5	9/23/2014	0.33	<0.005	2	<0.015	
MW-5	2/24/2015	0.16	<0.005	1.3	<0.015	
MW-5	9/1/2015	0.1	<0.005	0.57	<0.015	
MW-5	3/24/2016	0.095	<0.005	1.4	<0.015	
MW-5	9/28/2016	0.081	<0.0050	1.6	<0.015	
MW-5	3/7/2017	0.081	<0.0050	0.91	<0.0050	
MW-5	10/3/2017	0.151	0.00906 J	2.34	<0.060	
MW-5	3/14/2018	0.0609	<0.010	0.930	<0.030	
MW-5	9/7/2018	0.131	<0.001	2.040	0.00267 J	
MW-5	3/26/2019	0.08	0.000443 J	2.530	<0.003	
MW-5	9/18/2019	0.0980	<0.0200	1.97	<0.0600	
MW-5	6/23/2020	0.0266	<0.0200	1.73	0.00356 J	
MW-5	9/16/2020	0.0358	<0.0200	2.12	<0.0600	
MW-5	3/25/2021	0.105	<0.0200	2.61	<0.0600	
MW-5	9/23/2021	0.0933	<0.0200	2.72	<0.0600	
MW-5	3/24/2022	0.151	<0.0500	2.51	<0.150	
MW-6	9/24/2009		LNAPL			
MW-6	3/24/2010		LNAPL			
MW-6	9/28/2010		LNAPL			
MW-6	4/28/2011		LNAPL			LNAPL (2.81 feet)
MW-6	9/13/2011		LNAPL			LNAPL (3.33 feet)
MW-6	3/5/2012		LNAPL			LNAPL (3.1 feet)
MW-6	9/4/2012		LNAPL			LNAPL (3.98 feet)
MW-6	2/18/2013		LNAPL			LNAPL (2.32 feet) Active Spill Buster
MW-6	9/9/2013		LNAPL			LNAPL (0.17 feet) Active Spill Buster
MW-6	2/25/2014		LNAPL			LNAPL (1.99 feet) Active Spill Buster
MW-6	9/23/2014		LNAPL			LNAPL (0.09 feet)
MW-6	2/24/2015		LNAPL			LNAPL (0.07 feet)
MW-6	9/1/2015		LNAPL			LNAPL (0.01 feet)
MW-6	3/24/2016		LNAPL			LNAPL (0.13 feet)
MW-6	9/28/2016		LNAPL			LNAPL (3.74 feet)
MW-6	3/7/2017		LNAPL			LNAPL (0.7 feet) Active Spill Buster
MW-6	10/3/2017		LNAPL			LNAPL (0.25 feet) Active Spill Buster
MW-6	3/14/2018		LNAPL			LNAPL (NM) Active Spill Buster
MW-6	9/7/2018		LNAPL			LNAPL (0.32 feet) Active Spill Buster
MW-6	3/26/2019	0.543	<0.001	0.188	<0.003	
MW-6	9/18/2019		LNAPL			LNAPL (2.62 feet)
MW-6	6/23/2020		LNAPL			LNAPL (3.36 feet)
MW-6	9/16/2020		LNAPL			LNAPL (3.36 feet)
MW-6	3/25/2021		LNAPL			LNAPL (Spill Buster)
MW-6	9/23/2021		LNAPL			LNAPL (Spill Buster)
MW-6	3/24/2022		LNAPL			LNAPL (Spill Buster)
MW-7	9/24/2009		NS			
MW-7	3/24/2010		NS			
MW-7	9/28/2010		NS			
MW-7	4/28/2011		NS			DRY
MW-7	9/13/2011		NS			
MW-7	3/5/2012		NS			
MW-7	9/4/2012	<0.005	<0.005	<0.005	<0.015	
MW-7	2/18/2013	<0.001	<0.001	<0.001	<0.003	
MW-7	9/9/2013	<0.001	<0.001	<0.001	<0.001	
MW-7	2/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-7	9/23/2014	<0.001	<0.001	<0.001	<0.003	

APPENDIX A
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BTEX CONCENTRATIONS IN GROUNDWATER
LINAM RANCH
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		0.005	1.00	0.70	0.62	
MW-7	2/24/2015	<0.001	<0.001	<0.001	<0.003	
MW-7	9/1/2015	<0.001	<0.001	<0.001	<0.003	
MW-7	3/24/2016	<0.001	<0.001	<0.001	<0.003	
MW-7	10/12/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-7	3/7/2017	<0.0010	<0.0010	<0.0010	<0.0010	
MW-7	10/3/2017	<0.0010	<0.0010	<0.0010	<0.0030	
MW-7	3/14/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-7	9/7/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-7	3/25/2019	<0.0010	<0.0010	0.000421 J	<0.0030	
MW-7	9/18/2019	NS				Not enough water for sample
MW-7	6/24/2020	NS				DRY
MW-7	9/16/2020	NS				DRY
MW-7	3/25/2021	NS				DRY
MW-7	9/23/2021	NS				DRY
MW-7	3/24/2022	NS				DRY
MW-8	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-8	3/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-8	9/28/2010	<0.001	<0.002	<0.002	<0.004	
MW-8	4/28/2011	<0.001	<0.002	<0.002	<0.002	
MW-8	9/12/2011	<0.005	<0.005	<0.005	<0.015	
MW-8	3/5/2012	<0.005	<0.005	<0.005	<0.015	
MW-8	9/4/2012	<0.005	<0.005	<0.005	<0.015	
MW-8	2/18/2013	<0.001	<0.001	<0.001	<0.003	
MW-8	9/9/2013	<0.001	<0.001	<0.001	<0.001	
MW-8	2/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-8	9/23/2014	NS				Inaccessible
MW-8	2/24/2015	<0.001	<0.001	<0.001	<0.003	
MW-8	9/1/2015	<0.001	<0.001	<0.001	<0.003	
MW-8	3/24/2016	<0.001	<0.001	<0.001	<0.003	
MW-8	9/28/2016	NS				Well inaccessible due to flooding
MW-8	3/7/2017	<0.0010	<0.0010	<0.0010	<0.0010	
MW-8	10/3/2017	<0.0010	<0.0010	<0.0010	<0.0030	
MW-8	3/14/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-8	9/7/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-8	3/25/2019	<0.0010	<0.0010	<0.0010	<0.0030	
MW-8	9/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	
MW-8	6/23/2020	<0.0010	<0.0010	<0.0010	<0.0030	
MW-8	9/16/2020	<0.0010	<0.0010	<0.0010	<0.0030	
MW-8	3/25/2021	<0.0010	<0.0010	<0.0010	<0.0030	
MW-8	9/23/2021	<0.0010	<0.0010	<0.0010	<0.0030	
MW-8	3/24/2022	<0.00100	<0.00100	<0.00100	<0.00300	
MW-9	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-9	3/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-9	9/28/2010	<0.001	<0.002	<0.002	<0.004	
MW-9	4/28/2011	<0.001	<0.002	<0.002	<0.002	
MW-9	9/12/2011	<0.001	<0.002	<0.002	<0.004	
MW-9	3/5/2012	<0.005	<0.005	<0.005	<0.015	
MW-9	9/4/2012	<0.005	<0.005	<0.005	<0.015	
MW-9	2/18/2013	<0.001	<0.001	<0.001	<0.003	
MW-9	9/9/2013	<0.001	<0.001	<0.001	<0.001	
MW-9	2/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-9	9/23/2014	<0.001	<0.001	<0.001	<0.003	
MW-9	2/24/2015	<0.001	<0.001	<0.001	<0.003	
MW-9	9/1/2015	<0.001	<0.001	<0.001	<0.003	
MW-9	3/24/2016	<0.001	<0.001	<0.001	<0.003	
MW-9	9/28/2016	<0.0010	<0.0010	<0.0010	<0.0030	

APPENDIX A
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Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		0.005	1.00	0.70	0.62	
MW-9	3/7/2017	<0.0010	<0.0010	<0.0010	<0.0010	
MW-9	10/3/2017	<0.0010	<0.0010	<0.0010	<0.0030	
MW-9	3/14/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-9	9/7/2018	<0.0010	<0.0010	<0.0010	<0.0030	
MW-9	3/26/2019	<0.0010	<0.0010	<0.0010	<0.0030	
MW-9	9/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	
MW-9	6/24/2020	<0.0010	<0.0010	<0.0010	<0.0030	
MW-9	9/16/2020	<0.0010	<0.0010	<0.0010	<0.0030	
MW-9	3/25/2021	<0.0010	<0.0010	<0.0010	<0.0030	
MW-9	9/23/2021	<0.0010	<0.0010	<0.0010	<0.0030	
MW-9	3/24/2022	<0.00100	<0.00100	<0.00100	<0.00300	
MW-10	4/30/2008	0.769	0.0457	0.0851	0.05	
MW-10	4/29/2009	0.883	0.23	0.0859	0.0759	
MW-10	9/24/2009	1.07	0.126	0.148	0.154	
MW-10	3/24/2010	1.64	0.175	0.246	0.156	
MW-10	9/28/2010	1.9	0.0547 J	0.24	0.104 J	
MW-10	4/28/2011	1.72	0.228	0.195	0.126	Duplicate Sample Collected
MW-10 (Duplicate)	4/28/2011	2.29	0.258	0.234	0.155	
MW-10	9/12/2011	1.97	0.104	0.249	0.145	Duplicate Sample Collected
MW-10 (Duplicate)	9/12/2011	2.08	0.0964	0.25	0.153	
MW-10	3/5/2012	2.2	0.11	0.23	0.13	
MW-10	9/4/2012	2.7	0.0083	0.28	0.12	
MW-10	2/18/2013	2.0	0.019	0.3	0.13	
MW-10	9/9/2013	1.6	0.022	0.26	0.11	
MW-10	2/25/2014	1.7	0.0054	0.35	0.098	
MW-10	9/23/2014	2.2	<0.005	0.53	0.15	
MW-10	2/24/2015	1.6	0.012	0.29	0.086	
MW-10	9/1/2015	1.6	0.012	0.19	0.078	
MW-10	3/24/2016	4.6	0.0068	0.22	0.054	
MW-10	9/28/2016	3.1	0.012	0.25	0.19	
MW-10	3/7/2017	3.1	0.011	0.23	0.09	
MW-10	10/3/2017	4.27	0.0202	0.311	0.158	
MW-10	3/14/2018	4.24	<0.010	0.440	0.109	
MW-10	9/7/2018	3.32	0.0274	0.332	0.155	
MW-10	3/26/2019	2.0	0.0182	0.197	0.0826	
MW-10	9/18/2019	1.66	<0.200	0.284	0.202	
MW-10	6/23/2020	2.66	0.0100 J	0.522	0.141	
MW-10	9/16/2020	2.96	<0.0200	0.500	0.119	
MW-10	3/25/2021	1.64	0.0162 J	0.221	0.0452 J	
MW-10	9/23/2021	1.52	<0.0200	0.272	0.0150 J	
MW-10	3/24/2022	1.31	0.0107 J	0.247	0.0497 J	
MW-10D	4/30/2008	0.195	0.0677	0.0144	0.0221	
MW-10D	4/29/2009	0.179	0.0772	0.0203	0.0296	
MW-10D	9/24/2009	0.103	0.0496	0.0127	0.0261	
MW-10D	3/24/2010	0.196	0.0703	0.0129	0.0202	
MW-10D	9/28/2010	0.0402	0.0358	0.006	0.0077 J	
MW-10D	4/28/2011	0.0512	0.0373	0.0063	0.0113	
MW-10D	9/12/2011	0.0278	0.0131	0.0032	0.006	
MW-10D	3/5/2012	0.024	0.0081	<0.005	<0.015	Duplicate Sample Collected
MW-10D (Duplicate)	3/5/2012	0.022	0.0089	<0.005	<0.015	
MW-10D	9/4/2012	0.023	0.0057	<0.005	<0.015	
MW-10D	2/18/2013	0.034	0.014	0.0023	0.0031	
MW-10D	9/9/2013	0.034	0.019	<0.005	<0.005	
MW-10D	2/25/2014	0.046	0.021	0.005	<0.005	Duplicate Sample Collected
MW-10D (Duplicate)	2/25/2014	0.043	0.019	<0.005	<0.005	
MW-10D	9/23/2014	0.059	0.024	<0.005	<0.015	Duplicate Sample Collected

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Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		0.005	1.00	0.70	0.62	
MW-10D (Duplicate)	9/23/2014	0.058	0.024	<0.005	<0.015	
MW-10D	2/24/2015	0.062	0.026	0.008	<0.015	Duplicate Sample Collected
MW-10D (Duplicate)	2/24/2015	0.058	0.024	0.0074	<0.015	
MW-10D	9/1/2015	0.062	0.025	0.006	<0.015	Duplicate Sample Collected
MW-10D (Duplicate)	9/1/2015	0.065	0.026	0.0075	<0.015	
MW-10D	3/24/2016	0.079	0.021	0.021	<0.015	Duplicate Sample Collected
MW-10D (Duplicate)	3/24/2016	0.079	0.019	0.013	<0.015	
MW-10D	9/28/2016	0.024	0.013	<0.0050	<0.015	Duplicate Sample Collected
MW-10D (Duplicate)	9/28/2016	0.025	0.013	<0.0050	<0.015	
MW-10D	3/7/2017	0.15	0.017	0.026	0.0072	Duplicate Sample Collected
MW-10D (Duplicate)	3/7/2017	0.15	0.016	0.025	0.0066	
MW-10D	10/3/2017	0.0510	0.0153	<0.010	<0.030	Duplicate Sample Collected
MW-10D (Duplicate)	10/3/2017	0.0614	0.020	<0.020	<0.060	
MW-10D	3/14/2018	0.116	0.0178	0.0194	0.00472	Duplicate Sample Collected
MW-10D (Duplicate)	3/14/2018	0.104	0.0169	0.0176	<0.0150	
MW-10D	9/7/2018	0.0499	0.0163	0.00769	0.0033	Duplicate Sample Collected
MW-10D (Duplicate)	9/7/2018	0.0497	0.0181	0.00899	0.00384	
MW-10D	3/26/2019	0.047	0.0126	0.00647	0.00238 J	Duplicate Sample Collected
MW-10D (Duplicate)	3/26/2019	0.0477	0.0124	0.00642	0.00227 J	
MW-10D	9/18/2019	0.0588	0.0119	0.0182	0.00272 J	Duplicate Sample Collected
MW-10D (Duplicate)	9/18/2019	0.0574	0.0116	0.0185	0.00264 J	
MW-10D	6/23/2020	0.0297	0.0151	0.00472	0.00318	Duplicate Sample Collected
MW-10D (Duplicate)	6/23/2020	0.0290	0.0145	0.00418	0.00323	
MW-10D	9/16/2020	0.0466	0.0138	0.0103	0.00248 J	Duplicate Sample Collected
MW-10D (Duplicate)	9/16/2020	0.0523	0.0124	0.0129	0.00261 J	
MW-10D	3/25/2021	0.0318	0.0153	0.00399	0.00328	Duplicate Sample Collected
MW-10D (Duplicate)	3/25/2021	0.0322	0.0148	0.00418	0.0034	
MW-10D	9/23/2021	0.0227	0.0117	0.0036	0.00328	Duplicate Sample Collected
MW-10D (Duplicate)	9/23/2021	0.0221	0.0116	0.00361	0.00325	
MW-10D	3/24/2022	0.0276	0.0201	0.00333	0.00513	Duplicate Sample Collected
MW-10D (Duplicate)	3/24/2022	0.0285	0.0212	0.00347	0.00498	
MW-11	4/29/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-11	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-11	3/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-11	9/28/2010	0.0036	<0.002	<0.002	0.004	
MW-11	4/28/2011	<0.001	<0.002	<0.002	<0.002	
MW-11	9/12/2001	<0.001	<0.002	<0.002	<0.004	
MW-11	3/5/2012	<0.005	<0.005	<0.005	<0.015	
MW-11	9/4/2012	<0.005	<0.005	<0.005	<0.015	
MW-11	2/18/2013	<0.001	<0.001	<0.001	<0.003	
MW-11	9/9/2013	<0.001	<0.001	<0.001	0.0033	
MW-11	2/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-11	9/23/2014	<0.001	<0.001	<0.001	<0.003	
MW-11	2/24/2015	0.0019	<0.001	<0.001	<0.003	
MW-11	9/1/2015	0.019	<0.001	<0.001	0.0031	
MW-11	3/24/2016	<0.001	<0.001	<0.001	<0.003	
MW-11	9/28/2016	0.0036	<0.0010	<0.0010	<0.0030	
MW-11	3/7/2017	0.0081	<0.0010	<0.0010	0.0017	
MW-11	10/3/2017	0.000951 J	<0.0010	<0.0010	<0.0030	
MW-11	3/14/2018	0.00385	<0.0010	<0.0010	<0.0030	
MW-11	9/7/2018	0.000467 J	<0.0010	<0.0010	<0.0030	
MW-11	3/26/2019	0.0135	0.00082 J	<0.0010	<0.0030	
MW-11	9/18/2019	0.0207	0.00138	0.000459 J	0.00166 J	
MW-11	6/23/2020	0.05	0.00263	0.000628 J	0.00211 J	
MW-11	9/16/2020	0.0148	0.00138	0.000301 J	0.000603 J	
MW-11	3/25/2021	0.0227	0.000762 J	0.000310 J	0.00150 J	

APPENDIX A
HISTORICAL ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
LINAM RANCH
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Comments
NMWQCC Groundwater Standards (mg/L)		0.005	1.00	0.70	0.62	
MW-11	9/23/2021	0.0178	0.000671 J	0.000456 J	0.00147 J	
MW-11	3/24/2022	0.00411	<0.00100	<0.00100	0.000315 J	
MW-13	4/29/2009	<0.00046	<0.00048	<0.00045	<0.0014	
MW-13	9/24/2009	<0.002	<0.002	<0.002	<0.006	
MW-13	3/24/2010	<0.002	<0.002	<0.002	<0.006	
MW-13	9/28/2010	<0.001	<0.002	<0.002	<0.004	
MW-13	4/28/2011	<0.001	<0.002	<0.002	<0.002	
MW-13	9/12/2011	<0.001	<0.002	<0.002	<0.004	
MW-13	3/5/2012	<0.005	<0.005	<0.005	<0.015	
MW-13	Well Destroyed					
Trip Blank	2/25/2014	<0.001	<0.001	<0.001	<0.001	
Trip Blank	9/23/2014	<0.001	<0.001	<0.001	<0.003	
Trip Blank	2/24/2015	<0.001	<0.001	<0.001	<0.003	
Trip Blank	9/1/2015	<0.001	<0.001	<0.001	<0.003	
Trip Blank	3/24/2016	<0.001	<0.001	<0.001	<0.003	
Trip Blank	9/28/2016	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	3/7/2017	<0.0010	<0.0010	<0.0010	<0.0010	
Trip Blank	10/3/2017	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	3/14/2018	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	9/7/2018	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	3/26/2019	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	9/18/2019	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	6/24/2020	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	9/16/2020	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	3/25/2021	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	9/23/2021	<0.0010	<0.0010	<0.0010	<0.0030	
Trip Blank	3/24/2022	<0.00100	<0.00100	<0.00100	<0.00300	

Notes:

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

NMWQCC = New Mexico Water Quality Control Commission

LNAPL = Light Non-Aqueous Phase Liquid

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

NS = Not Sampled

mg/L = milligrams per liter

Appendix B

Laboratory Analytical Report

- Pace Job #: L1474528



ANALYTICAL REPORT

April 01, 2022

DCP Midstream - Tasman

Sample Delivery Group: L1475558
Samples Received: 03/25/2022
Project Number:
Description: Linam Ranch

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

¹Cp²Tc³Ss⁴Cn⁵Sr⁶Qc⁷Gl⁸Al⁹Sc

Entire Report Reviewed By:

Chris Ward

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 National12065 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	5
Sr: Sample Results	6
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MW-5 L1475558-04	9
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MW-9 L1475558-06	11
MW-10 L1475558-07	12
MW-10D L1475558-08	13
MW-11 L1475558-09	14
DUPLICATE L1475558-10	15
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Qc: Quality Control Summary	17
Volatile Organic Compounds (GC/MS) by Method 8260B	17
Gl: Glossary of Terms	19
Al: Accreditations & Locations	20
Sc: Sample Chain of Custody	21



MW-1 L1475558-01 GW

				Collected by Becky Griffin	Collected date/time 03/24/22 08:35	Received date/time 03/25/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838781	1	03/26/22 17:05	03/26/22 17:05	JAH	Mt. Juliet, TN

1
Cp

2
Tc

3
Ss

4
Cn

5
Sr

6
Qc

7
Gl

8
Al

9
Sc

MW-2 L1475558-02 GW

				Collected by Becky Griffin	Collected date/time 03/24/22 09:15	Received date/time 03/25/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838781	1	03/26/22 17:25	03/26/22 17:25	JAH	Mt. Juliet, TN

MW-3 L1475558-03 GW

				Collected by Becky Griffin	Collected date/time 03/24/22 10:50	Received date/time 03/25/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838781	1	03/26/22 17:53	03/26/22 17:53	JAH	Mt. Juliet, TN

MW-5 L1475558-04 GW

				Collected by Becky Griffin	Collected date/time 03/24/22 08:15	Received date/time 03/25/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1840973	50	03/31/22 01:22	03/31/22 01:22	TJJ	Mt. Juliet, TN

MW-8 L1475558-05 GW

				Collected by Becky Griffin	Collected date/time 03/24/22 09:00	Received date/time 03/25/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838781	1	03/26/22 18:12	03/26/22 18:12	JAH	Mt. Juliet, TN

MW-9 L1475558-06 GW

				Collected by Becky Griffin	Collected date/time 03/24/22 12:50	Received date/time 03/25/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838781	1	03/26/22 18:32	03/26/22 18:32	JAH	Mt. Juliet, TN

MW-10 L1475558-07 GW

				Collected by Becky Griffin	Collected date/time 03/24/22 14:10	Received date/time 03/25/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1840973	20	03/31/22 01:42	03/31/22 01:42	TJJ	Mt. Juliet, TN

MW-10D L1475558-08 GW

				Collected by Becky Griffin	Collected date/time 03/24/22 14:10	Received date/time 03/25/22 09:00
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838781	1	03/26/22 19:18	03/26/22 19:18	JAH	Mt. Juliet, TN

MW-11 L1475558-09 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838781	1	03/26/22 19:37	03/26/22 19:37	JAH	Mt. Juliet, TN

Collected by
Becky Griffin

Collected date/time
03/24/22 10:00

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

¹Cp

²Tc

³Ss

DUPLICATE L1475558-10 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838781	1	03/26/22 19:56	03/26/22 19:56	JAH	Mt. Juliet, TN

Collected by
Becky Griffin

Collected date/time
03/24/22 00:00

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

⁴Cn

⁵Sr

TRIP BLANK L1475558-11 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1838781	1	03/26/22 13:35	03/26/22 13:35	JAH	Mt. Juliet, TN

Collected by
Becky Griffin

Collected date/time
03/24/22 00:00

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

⁶Qc

⁷Gl

⁸Al

⁹Sc

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 Cp² Tc³ Ss⁴ Cn⁵ Sr⁶ Qc⁷ Gl⁸ Al⁹ Sc

Collected date/time: 03/24/22 08:35

L1475558

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000105	J	0.0000941	0.00100	1	03/26/2022 17:05	WG1838781
Toluene	U		0.000278	0.00100	1	03/26/2022 17:05	WG1838781
Ethylbenzene	U		0.000137	0.00100	1	03/26/2022 17:05	WG1838781
Total Xylenes	U		0.000174	0.00300	1	03/26/2022 17:05	WG1838781
(S) Toluene-d8	114			80.0-120		03/26/2022 17:05	WG1838781
(S) 4-Bromofluorobenzene	108			77.0-126		03/26/2022 17:05	WG1838781
(S) 1,2-Dichloroethane-d4	98.4			70.0-130		03/26/2022 17:05	WG1838781

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/24/22 09:15

L1475558

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000411	J	0.0000941	0.00100	1	03/26/2022 17:25	WG1838781
Toluene	U		0.000278	0.00100	1	03/26/2022 17:25	WG1838781
Ethylbenzene	U		0.000137	0.00100	1	03/26/2022 17:25	WG1838781
Total Xylenes	U		0.000174	0.00300	1	03/26/2022 17:25	WG1838781
(S) Toluene-d8	112			80.0-120		03/26/2022 17:25	WG1838781
(S) 4-Bromofluorobenzene	103			77.0-126		03/26/2022 17:25	WG1838781
(S) 1,2-Dichloroethane-d4	97.8			70.0-130		03/26/2022 17:25	WG1838781

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/24/22 10:50

L1475558

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	03/26/2022 17:53	WG1838781
Toluene	U		0.000278	0.00100	1	03/26/2022 17:53	WG1838781
Ethylbenzene	U		0.000137	0.00100	1	03/26/2022 17:53	WG1838781
Total Xylenes	U		0.000174	0.00300	1	03/26/2022 17:53	WG1838781
(S) Toluene-d8	113			80.0-120		03/26/2022 17:53	WG1838781
(S) 4-Bromofluorobenzene	105			77.0-126		03/26/2022 17:53	WG1838781
(S) 1,2-Dichloroethane-d4	96.8			70.0-130		03/26/2022 17:53	WG1838781

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/24/22 08:15

L1475558

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.151		0.00471	0.0500	50	03/31/2022 01:22	WG1840973
Toluene	U		0.0139	0.0500	50	03/31/2022 01:22	WG1840973
Ethylbenzene	2.51		0.00685	0.0500	50	03/31/2022 01:22	WG1840973
Total Xylenes	U		0.00870	0.150	50	03/31/2022 01:22	WG1840973
(S) Toluene-d8	103			80.0-120		03/31/2022 01:22	WG1840973
(S) 4-Bromofluorobenzene	101			77.0-126		03/31/2022 01:22	WG1840973
(S) 1,2-Dichloroethane-d4	108			70.0-130		03/31/2022 01:22	WG1840973

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/24/22 09:00

L1475558

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	03/26/2022 18:12	WG1838781
Toluene	U		0.000278	0.00100	1	03/26/2022 18:12	WG1838781
Ethylbenzene	U		0.000137	0.00100	1	03/26/2022 18:12	WG1838781
Total Xylenes	U		0.000174	0.00300	1	03/26/2022 18:12	WG1838781
(S) Toluene-d8	116			80.0-120		03/26/2022 18:12	WG1838781
(S) 4-Bromofluorobenzene	107			77.0-126		03/26/2022 18:12	WG1838781
(S) 1,2-Dichloroethane-d4	96.5			70.0-130		03/26/2022 18:12	WG1838781

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/24/22 12:50

L1475558

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	03/26/2022 18:32	WG1838781
Toluene	U		0.000278	0.00100	1	03/26/2022 18:32	WG1838781
Ethylbenzene	U		0.000137	0.00100	1	03/26/2022 18:32	WG1838781
Total Xylenes	U		0.000174	0.00300	1	03/26/2022 18:32	WG1838781
(S) Toluene-d8	112			80.0-120		03/26/2022 18:32	WG1838781
(S) 4-Bromofluorobenzene	105			77.0-126		03/26/2022 18:32	WG1838781
(S) 1,2-Dichloroethane-d4	96.8			70.0-130		03/26/2022 18:32	WG1838781

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/24/22 14:10

L1475558

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	1.31		0.00188	0.0200	20	03/31/2022 01:42	WG1840973
Toluene	0.0107	J	0.00556	0.0200	20	03/31/2022 01:42	WG1840973
Ethylbenzene	0.247		0.00274	0.0200	20	03/31/2022 01:42	WG1840973
Total Xylenes	0.0497	J	0.00348	0.0600	20	03/31/2022 01:42	WG1840973
(S) Toluene-d8	98.0			80.0-120		03/31/2022 01:42	WG1840973
(S) 4-Bromofluorobenzene	108			77.0-126		03/31/2022 01:42	WG1840973
(S) 1,2-Dichloroethane-d4	110			70.0-130		03/31/2022 01:42	WG1840973

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/24/22 14:10

L1475558

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0276		0.0000941	0.00100	1	03/26/2022 19:18	WG1838781
Toluene	0.0201		0.000278	0.00100	1	03/26/2022 19:18	WG1838781
Ethylbenzene	0.00333		0.000137	0.00100	1	03/26/2022 19:18	WG1838781
Total Xylenes	0.00513		0.000174	0.00300	1	03/26/2022 19:18	WG1838781
(S) Toluene-d8	112			80.0-120		03/26/2022 19:18	WG1838781
(S) 4-Bromofluorobenzene	105			77.0-126		03/26/2022 19:18	WG1838781
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		03/26/2022 19:18	WG1838781

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/24/22 10:00

L1475558

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00411		0.0000941	0.00100	1	03/26/2022 19:37	WG1838781
Toluene	U		0.000278	0.00100	1	03/26/2022 19:37	WG1838781
Ethylbenzene	U		0.000137	0.00100	1	03/26/2022 19:37	WG1838781
Total Xylenes	0.000315	J	0.000174	0.00300	1	03/26/2022 19:37	WG1838781
(S) Toluene-d8	118			80.0-120		03/26/2022 19:37	WG1838781
(S) 4-Bromofluorobenzene	107			77.0-126		03/26/2022 19:37	WG1838781
(S) 1,2-Dichloroethane-d4	96.1			70.0-130		03/26/2022 19:37	WG1838781

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/24/22 00:00

L1475558

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0285		0.0000941	0.00100	1	03/26/2022 19:56	WG1838781
Toluene	0.0212		0.000278	0.00100	1	03/26/2022 19:56	WG1838781
Ethylbenzene	0.00347		0.000137	0.00100	1	03/26/2022 19:56	WG1838781
Total Xylenes	0.00498		0.000174	0.00300	1	03/26/2022 19:56	WG1838781
(S) Toluene-d8	115			80.0-120		03/26/2022 19:56	WG1838781
(S) 4-Bromofluorobenzene	107			77.0-126		03/26/2022 19:56	WG1838781
(S) 1,2-Dichloroethane-d4	91.4			70.0-130		03/26/2022 19:56	WG1838781

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Collected date/time: 03/24/22 00:00

L1475558

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

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	03/26/2022 13:35	WG1838781
Toluene	U		0.000278	0.00100	1	03/26/2022 13:35	WG1838781
Ethylbenzene	U		0.000137	0.00100	1	03/26/2022 13:35	WG1838781
Total Xylenes	U		0.000174	0.00300	1	03/26/2022 13:35	WG1838781
(S) Toluene-d8	117			80.0-120		03/26/2022 13:35	WG1838781
(S) 4-Bromofluorobenzene	105			77.0-126		03/26/2022 13:35	WG1838781
(S) 1,2-Dichloroethane-d4	99.6			70.0-130		03/26/2022 13:35	WG1838781

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3774819-1 03/26/22 09:51

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	114			80.0-120
(S) 4-Bromofluorobenzene	109			77.0-126
(S) 1,2-Dichloroethane-d4	97.4			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3774819-2 03/26/22 12:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00527	105	70.0-123	
Toluene	0.00500	0.00593	119	79.0-120	
Ethylbenzene	0.00500	0.00577	115	79.0-123	
Xylenes, Total	0.0150	0.0177	118	79.0-123	
(S) Toluene-d8			114	80.0-120	
(S) 4-Bromofluorobenzene			106	77.0-126	
(S) 1,2-Dichloroethane-d4			100	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

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

L1475558-04.07

Method Blank (MB)

(MB) R3776353-2 03/31/22 00:34

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
Toluene	U		0.000278	0.00100
Ethylbenzene	U		0.000137	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	101			80.0-120
(S) 4-Bromofluorobenzene	101			77.0-126
(S) 1,2-Dichloroethane-d4	109			70.0-130

Laboratory Control Sample (LCS)

(LCS) R3776353-1 03/30/22 23:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00493	98.6	70.0-123	
Toluene	0.00500	0.00479	95.8	79.0-120	
Ethylbenzene	0.00500	0.00503	101	79.0-123	
Xylenes, Total	0.0150	0.0153	102	79.0-123	
(S) Toluene-d8			101	80.0-120	
(S) 4-Bromofluorobenzene			107	77.0-126	
(S) 1,2-Dichloroethane-d4			110	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.

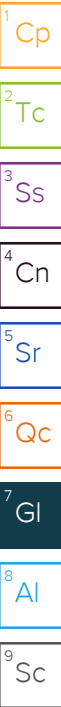
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. 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.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

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



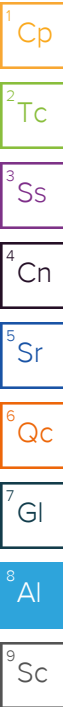
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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

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

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

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



DCP Midstream - Tasman

2620 W. Marland Blvd
Hobbs, NM 88240

Billing Information:

Steve Weathers
370 17th St, Ste 2500
Denver, CO 80202Pres
ChkReport to:
Kyle NormanEmail To: knorman@tasman-
geo.com; bhumphrey@tasman-Project Description:
Linam RanchCity/State
Collected:Please Circle:
PT MT CT ET

Phone: 720-218-4003

Client Project #

Lab Project #

DCPTASMAN-LINAM

Collected by (print):

Site/Facility ID #

P.O. #

0000524227

Collected by (signature):

Rush? (Lab MUST Be Notified)

Quote #

Immediately
Packed on Ice N ___ Y ___

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

Date Results Needed

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	
MW-1		GW		3-24-22	0835	3 X
MW-2		GW		3-24-22	0915	3 X
MW-3		GW		3-24-22	1050	3 X
MW-4		GW				
MW-5		GW		3-24-22	0815	3 X
MW-6		GW				
MW-7		GW				
MW-8		GW		3-24-22	0900	3 X
MW-9		GW		3-24-22	1250	3 X
MW-10		GW		3-24-22	1410	3 X

V8260BTEX 40ml/Amb-HCI

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 #

Table

Acctnum: DCPTASMAN

Template: T127845

Prelogin: P909000

PM: 824 - Chris Ward

PB: 08/31/22

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:

Samples returned via:
___ UPS ___ FedEx ___ Courier _____

Tracking #

5671 5377 8235

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

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

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Trip Blank Received: Yes/ No

☒ HCL / MeOH
☐ TBR

Relinquished by: (Signature)

Date:

Time:

Received by: (Signature)

Temp: DRAX Bottles Received: 37

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 3/24/22 Time: 0800

Hold:

Condition:
NCF ☒ OK

DCP Midstream - Tasman

2620 W. Marland Blvd
Hobbs, NM 88240

Billing Information:

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

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 # U475558

Table #

Acctnum: DCPTASMAN

Template: T127845

Prelogin: P909000

PM: 824 - Chris Ward

PB: 08 3/9/22

Shipped Via: FedEX Ground

Remarks Sample # (lab only)

Report to:
Kyle NormanEmail To: knorman@tasman-
geo.com; bhumphrey@tasman-Project Description:
Linam RanchCity/State
Collected:Please Circle:
PT MT CT ET

Phone: 720-218-4003

Client Project #

Lab Project #
DCPTASMAN-LINAM

Collected by (print):

Site/Facility ID #

P.O. #
0000524227

Collected by (signature):

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
Cnts

Sample ID Comp/Grab Matrix * Depth Date Time

MW-10D GW 3-24-22 1410 3 X

MW-11 GW 3-24-22 1000 3 X

DUPLICATE GW 3-24-22 3 X

GW

TRIP BLANK GW 3-24-22 1 X

* 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 CourierTracking # 5671 8377 8235

Sample Receipt Checklist

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

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: 1.96/2.14 Bottles Received: 37

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date:

Time:

Received for lab by: (Signature)

Date: 3/9/22 Time: 09:41

Hold:

Condition:
NCF / OK

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

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

CONDITIONS

Action 152664

CONDITIONS

Operator: DCP OPERATING COMPANY, LP 6900 E. Layton Ave Denver, CO 80237	OGRID: 36785
	Action Number: 152664
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Accepted for the record on 01/04/2023.	1/4/2023