talonlpe.com • 866.742.0742

TALON LPE

REVIEWED
By Mike Buchanan at 11:34 am, Aug 19, 2024

2023 Annual Groundwater Monitoring Report

Lovington Deep 6”
Lea County, New Mexico
SRS # 2002-10312
NMOCD REF. # AP-037, nAPP2109530339

Review of the 2023 Annual Groundwater Monitoring Report for Lovington Deep 6": content satisfactory
1. Continue to remove PSH by MDPE events as scheduled for the site.
2. Conduct groundwater monitoring events quarterly for BTEX and PAH analyses.
3. Submit the 2024 annual monitoring report to OCD by April 1, 2025.

Prepared For:
Plains Pipeline, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002

Prepared By: Joshua Frenya
Talon/LPE, Ltd.
408 W. Texas Ave.
Artesia, New Mexico 88210

March 4, 2024

2023 ANNUAL GROUNDWATER MONITORING REPORT

Lovington Deep 6”
Lea County, New Mexico
SRS # 2002-10312
NMOCD REF. # AP-037, nAPP2109530339

Plains Pipeline, L.P.
333 Clay Street, Suite 1600
Houston, Texas 77002

Prepared By:

Carol Grimes for

Joshua Frenya
Staff Geologist

Reviewed By:

Paul Santos

Paul Santos, P.E.
Regional Manager, Senior Engineer

PAUL A. SANTOS
NEW MEXICO
17808
LICENSED PROFESSIONAL ENGINEER
5/30/24

Talon/LPE, Ltd.
408 W. Texas Ave.
Artesia, New Mexico 88210

March 4, 2024

DISTRIBUTION LIST

Name	Title	Company or Agency	Mailing Address	E-mail
Nelson Velez	Environmental Specialist - Advanced	NMOCD	1000 Rio Brazos Road Aztec, New Mexico 87410	Nelson.Velez@emnrd.nm.gov
Mike Bratcher	District Supervisor	NMOCD District I & II	811 S. First Street Artesia, New Mexico 88210	Mike.Bratcher@state.nm.us
Karolanne Hudgens	HSE Remediation Specialist II	Plains Pipeline	1106 Griffith Drive Midland, Texas 79706	karolanne.hudgens@plains.com
David J. Adkins	Regional Manager	Talon/LPE	408 W. Texas Avenue Artesia, New Mexico 88210	DAdkins@talonlpe.com

NMOCD – New Mexico Oil Conservation Division

TABLE OF CONTENTS

APPENDICES

1. INTRODUCTION AND SITE HISTORY

The Lovington Deep 6", hereinafter referred to as the "site", is located approximately 5.8 miles southwest of Lovington, New Mexico in Unit H, Section 6, Township 16 South, and Range 36 East. A release of crude oil from the Plains Deep 6" pipeline occurred on property which is owned by Chevron and primarily utilized as pasture/range with intermittent oil production facilities. The site is located within the West Lovington oil field and has no residence or surface water located within a 1,000-foot radius of the release point. The remediation area is surrounded by a barbed wire fence and is gated.

The site is situated within a physiographic region that is on the extreme south-western portion of the Southern High Plains as it grades into the Edwards Plateau to the south and southeast and the Chihuahuan Desert of the Trans-Pecos Region to the southwest.

The topography proximal to the site is typical of the Southern High Plains, essentially flat with shallow depressions, or playa lakes, dotting the landscape. The prominent surface features on the Southern High Plains are the approximately 19,250 ephemeral playa lakes; however, the density of the playa lakes diminishes toward the southern extent of the Southern High Plains. During periods of rainfall, the playa lakes accumulate sheet runoff from watershed areas ranging in size from less than one (1) square mile to several square miles. Only a small portion of drainage from rainfall occurs by streams. Playa lakes that collect storm water runoff can act as a recharge mechanism for groundwater.

The average elevation of the site area is approximately 3,915 feet above mean sea level with a slight slope generally to the southeast. The regional slope of the land surface in the Southern High Plains is approximately 100 feet per mile in the generally southeast direction.

In December 2002, a reported release of approximately 25 barrels (bbls) of crude oil occurred at the site due to corrosion of the Plains Deep 6" pipeline. Ten (10) bbls of crude oil was recovered during initial response activities. Approximately 6,000 square feet of surface area was impacted by the release. During the initial remediation phase, soil that was impacted by the release was excavated and transported to a New Mexico Oil Conservation Division (NMOCD) approved land farm for treatment. Soil remediation activities were initiated by Environmental Plus, Inc. (EPI) in 2003 and the soil phase of site remediation was closed in October 2005.

On February 5, 2007, Talon/LPE was retained by Plains Pipeline, L.P. (Plains) to assume groundwater remediation activities at the Lovington Deep 6" release site. Groundwater remediation activities at the site were previously conducted by EPI.

1.1 Site Geology

The surficial deposits in Lea County are composed of Blackwater Draw (Illinoian) sediments, Ogallala sediments and undivided Quaternary alluvium, which is also termed 'cover sands'. The soil in the upper two (2) feet at the site is composed of gravelly loam that contains abundant eroded gravel to cobble size caliche fragments. Below the topsoil is predominately unconsolidated sand to weakly cemented sandstone, which has undergone calichification of varying extent.

Below the Blackwater Draw Formation is the Ogallala Formation of Miocene to Pliocene age. The Ogallala Formation was deposited from sediments eroded from the Southern Rockies and consists mostly of eolian sediments, silty to very fine sand or loess. During the middle to late Miocene, Ogallala sediments were deposited by fluvial mechanism as paleovalley fill, which is composed of gravelly to sandy braided stream deposits that trend west to east across the Southern High Plains. During the late Miocene, the west to east drainage was diverted (captured) by the Pecos River. Subsequently, the Pecos River basin has experienced deflation, which facilitated eolian deposition on the Southern High Plains during the Pliocene.

1.2 Previous Environmental Investigations

During initial assessment activities to delineate the extent of impacted soil at the site, six (6) soil borings were advanced from December 27, 2002, through January 2, 2004. During the assessment, soil boring BH-1 encountered groundwater that was impacted by phase separated hydrocarbons (PSH). Subsequently, soil boring BH-1 was completed as groundwater monitor well, MW-2. Soil borings BH-2, BH-4, BH-5, and BH-6 were advanced in order to delineate the extent of impacted groundwater and those soil borings were completed as groundwater monitor wells MW-1, MW-3, MW-4, and MW-5 respectively.

During November and December 2004, six (6) groundwater monitor wells (MW-6 through MW-11) were installed to further delineate the lateral extent of groundwater impacts at the site. In July 2006, six (6) additional groundwater monitor wells (MW-12 through MW-17) were installed to complete assessment of the areal extent of impacted groundwater.

Subsequent groundwater monitoring events indicated that benzene concentrations in the down-gradient sentinel monitor wells (MW-12 and MW-18) consistently exceeded the New Mexico Water Quality Control Commission (NMWQCC) standard. Therefore, two (2) additional monitor wells MW-19 and MW-20 were installed further down-gradient on August 27, 2018.

PSH recovery operations have been performed at the site since March 2003, initially from hand bailing followed by a recovery system that utilized skimmers with bladder pumps. In April 2010, a pneumatic total fluid pump was installed in monitor well MW-2. Due to an insignificant increase in PSH production and because the total fluid pump increased groundwater production, the total fluids pump was removed from MW-2 in September 2010 and replaced with a skimmer and bladder pump. In order to help reduce down-gradient dissolved-phase concentrations, air sparge bubblers were installed in monitor wells MW-10 and MW-12 in January 2011.

At the end of 2012, there were six (6) skimmers with bladder pumps operating in monitor wells MW-2, MW-13, MW-14, MW-15, MW-16, and MW-17. During 2012, three (3) Mobile Dual Phase Extraction (MDPE) events were conducted on site. A total of approximately 27 bbls of liquid and vapor PSH were recovered during these events, and five (5) bbls of crude oil was recovered during 2012 by the skimmer pump system.

Because the MDPE events have proven to be far more efficient at PSH recovery, the on-site recovery system was removed completely in January 2013. MDPE events are now conducted on a monthly basis. On February 20, 2016, a new compressor was installed for the air sparge bubblers in monitoring wells MW-10, MW-12, and MW-18.

For 2022, during the quarters one (1) through three (3), there were two (2) air sparge bubblers operating in MW-18 and MW-19. The air sparge bubblers were removed in the fourth quarter of 2022. In 2022, MDPE events recovered an estimated total of 52.48 bbls of PSH consisting of 13.21 bbls of liquid and 39.26 bbls of vapor phase PSH.

During 2023, a total of 12 MDPE events were conducted. A total of 41.07 bbls of PSH were recovered which consisted of 14.00 bbls of liquid PSH and 27.07 bbls of vapor. To date, approximately 570.22 bbls of PSH have been recovered during the described remediation efforts.

1.3 Regulatory Framework

Groundwater analytical data from this site was evaluated to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards.

NMWQCC Groundwater Standards	
Compound	**Milligrams per Liter**
Benzene	0.010
Toluene	0.750
Ethylbenzene	0.750
Total Xylenes	0.620
PAH (Naphthalene)	0.030
PAH (Benzo[a]pyrene)	0.0007

The following sections provide summaries of the groundwater monitoring activities conducted at the site as well as analytical results from each groundwater sampling event of 2023. Analytical results for the four (4) sampling events are summarized in Table 2 and Table 3 in Appendix B, and Figures 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C.

2. SITE ACTIVITIES

The sections that follow summarize groundwater monitoring, PSH recovery and site assessment activities conducted at the site during the year 2023. The primary function of groundwater monitoring activities is to collect depth to fluid measurements and collect groundwater samples for laboratory analysis. The objective of groundwater monitoring is to evaluate the status of the dissolved-phase and PSH plume in order to verify the effectiveness of the groundwater remediation system as to inhibiting plume migration, reducing the volume of PSH impacting the groundwater and determining if modifications to the remediation system would improve its performance and efficiency if necessary.

2.1 Groundwater Monitoring Activities

A total of four (4) groundwater monitoring events were conducted by Talon/LPE in 2023. The events occurred in: March, June, Septmeber, and December.

During the March 2023 groundwater monitoring event, all 20 monitor wells were gauged. A total of 14 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-7, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were purged and sampled. Due to the presence of PSH, four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17) were not sampled. It was noted that two (2) monitor wells (MW-6 and MW-10) were dry when gauged therefore were not purged or sampled. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

During the June 2023 groundwater monitoring event, all 20 monitor wells were gauged. A total of 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were purged and sampled. Due to the presence of PSH, four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17) were not sampled. It was noted that two (2) monitor wells (MW-6 and MW-10) were dry when gauged and monitor well MW-7 did not have enough water to sample; therefore, the aforementioned wells were not purged or sampled. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

During the Septmeber 2023 groundwater monitoring event, all 20 monitor wells were gauged. A total of 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were purged and sampled. Due to the presence of PSH, four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17) were not sampled. It was noted that two (2) monitor wells (MW-6 and MW-10) were dry when gauged and monitor well MW-7 did not have enough water to sample; therefore, the aforementioned wells were not purged or sampled. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

During the December 2023 groundwater monitoring event, all 20 monitor wells were gauged. A total of 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were purged and sampled. Due to the presence of PSH, four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17) were not sampled. It was noted that two (2) monitor wells (MW-6 and MW-10) were dry when gauged and monitor well MW-7 did not have enough water to sample; therefore, the aforementioned wells were not purged or sampled. Details of the gauging, purging, and sampling activities are presented in Section 2.2.

2.2 Groundwater Gauging, Purging, and Sampling Procedures

During each groundwater monitoring event, all monitor wells were measured with an oil/water interface probe to determine static water levels and to determine the thickness of PSH accumulations, if present. The data collected from these measurements was used to construct groundwater gradient maps and PSH thickness maps. The results of the measured depths to fluids collected during the four (4) events conducted in 2023 are incorporated in Table 1 - Groundwater Gauging Data - Historical included in Appendix B.

Subsequent to gauging, all monitor wells not impacted with PSH were purged a minimum of three (3) casing volumes using a 12-volt, submersible pump equipped with vinyl tubing. The purge pump and tubing were decontaminated with Alconox detergent and rinsed with distilled water after each use. Recovered purge water and water used in the decontamination process was contained in on-site 55-gallon drums. After the groundwater monitoring event, all retained water was placed into the on-site storage tank and removed with a vacuum truck for disposal at Gandy Marley, an NMOCD approved facility.

Groundwater samples were collected from all monitor wells using dedicated disposable polyethylene bailers. Each groundwater sample was contained in laboratory supplied sample containers with the appropriate preservative required for the analysis requested.

The groundwater samples were maintained on ice, in the custody of Talon/LPE personnel, until they were delivered to Eurofins in Carlsbad, New Mexico for the 1st quarter and to Permian Basin Environmental Labs in Midland, Texas for the 2nd, 3rd, and 4th quarters, for analysis. The groundwater samples collected during all four (4) events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by Environmental Protection Agency (EPA) Method SW-846 8021B.

2.3 Phase Separated Hydrocarbon Recovery

Initial PSH recovery was conducted at the in 2003 by hand bailing. In 2007, an automated skimmer/bladder pump recovery system was installed at the site. The system utilized six (6) skimmers with bladder pumps in monitor wells MW-2 and MW-13 through MW-17 for recovery of PSH and to inhibit migration of the PSH plume. The skimmer assembly consisted of bladder pumps combined with 24-inch traveling float specific gravity skimmers attachments. The skimmer system was powered by a single-phase, 230-volt, 7.5 HP, two-stage reciprocating air compressor.

Currently, MDPE events are conducted monthly. This system utilizes vapor pulled by vacuum combined with propane to power an internal combustion engine. In addition, it also powers a compressor and the blower used to create a vacuum for vapor recovery. Compressed air from the system drives pneumatic pumps placed in the various wells containing PSH. Fluid recovered by the pumps is retained in an on-site 1,500-gallon poly tank. The poly tank is equipped with a high level shut off switch to prevent overflow and is located within a secondary containment compound that is outfitted with a poly-liner. Recovered groundwater and PSH is removed from the poly tank and transported to an NMOCD approved disposal facility, Gandy Marley, via vacuum truck at the end of each MDPE event.

During 2023 the quarterly PSH and groundwater recovery totals are as follows:

1st Quarter – 13.09 bbls PSH and 68.10 bbls of groundwater
2nd Quarter – 9.48 bbls PSH and 78.62 bbls of groundwater
3rd Quarter – 11.05 bbls PSH and 78.57 bbls of groundwater
4th Quarter – 7.46 bbls PSH and 75.98 bbls of groundwater

Twelve (12) MDPE events, in which liquid and vapor PSH were recovered, were conducted on site during 2023. The individual MDPE event recovery totals are as follows:

January 10, 2023 – 2.20 bbls vapor, 1.07 bbls liquid
February 23, 2023 – 2.96 bbls vapor, 0.93 bbls liquid
March 7, 2023 – 3.65 bbls vapor, 2.29 bbls liquid
April 4, 2023 – 1.94 bbls vapor, 1.45 bbls liquid
May 23, 2023 – 1.39 bbls vapor, 0.76 bbls liquid
June 14, 2023 – 2.08 bbls vapor, 1.86 bbls liquid

July 11, 2023 –	2.22	bbls vapor,	0.55	bbls liquid
August 3, 2023 –	3.37	bbls vapor,	1.31	bbls liquid
September 6, 2023 –	2.32	bbls vapor,	1.29	bbls liquid
October 9, 2023 –	1.50	bbls vapor,	1.00	bbls liquid
November 9, 2023 –	1.19	bbls vapor,	0.83	bbls liquid
December 7, 2023 –	2.27	bbls vapor,	0.67	bbls liquid

In 2023, an estimated total of 41.07 bbls of PSH were recovered during the MDPE events.

Historically, approximately 570.22 bbls of PSH, which consists of 288.86 bbls of vapor phase and 281.35 bbls of liquid phase PSH, have been recovered from the site.

3. GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 – Groundwater Analytical Data - Historical in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C.

The following sections present the results from the monitoring of the first water-bearing zone underlying the site.

3.1 Physical Characteristics of the First Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, which includes the site, is referred to as the Ogallala Aquifer or High Plains Aquifer. The Southern portion of the Ogallala Aquifer underlies an area of about 29,000 square miles in western Texas and eastern New Mexico, which encompasses all or part of 31 counties in Texas and six (6) counties in New Mexico.

The Ogallala Aquifer has experienced acute depletion from extensive irrigation and urban demand, which have exceeded the average annual recharge rate. Recharge of the Ogallala Aquifer on the Southern High Plains occurs predominately from rainfall runoff that accumulates in ephemeral streams and playa lakes, as well as direct recharge in areas that contain permeable soils such as sand hills. Recharge rates vary depending on mechanism, but averages from 0 to 1.6 inches per year.

The Ogallala Aquifer is generally unconfined and the potentiometric surface mimics the topography with a regional flow direction from the general northwest to the general southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven (7) inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot and specific yield averages 16%. The depth to groundwater at the site has historically ranged from 60 to 65 feet below ground surface (bgs) and the groundwater flow direction is generally to the east. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet. The variable thickness is due to the irregularly eroded Triassic surface that underlies it.

The composition of Ogallala groundwater is defined as mixed-cation-HCO_3. Therefore, Ogallala groundwater is considered hard. Problems with scale have occurred with residential and commercial water systems that use Ogallala groundwater and treatment strategies are often employed to reduce the effects of scale. The typical total dissolved solids of Ogallala groundwater in the Hobbs-Lovington area is generally less than 1,000 mg/L (parts per million (ppm)) in areas not impacted by oil-field brines. The pH of Ogallala water averages 7.3.

3.2 Groundwater Gradient and Flow Direction

The depth to fluid measurements was collected during each of the four (4) groundwater monitoring events during the year 2023. The results of the fluid level measurements are summarized in Table 1 - Groundwater Gauging Data - Historical in Appendix B.

Potentiometric surface maps were constructed from the four (4) quarterly water level measurement data sets:

- March 01, 2023
- June 05, 2023
- Septmeber 05, 2023
- December 05, 2023

These maps are Figures 2a, 2b, 2c, and 2d presented in Appendix A.

Based on fluid level measurements at the site, the groundwater flow direction within the first water-bearing zone underlying the site between March 2023 and December 2023 was east with an average gradient of 0.0031 feet per foot (ft/ft), or approximately 16.37 feet per mile. Groundwater levels at the subject site have exhibited a decrease of an average of 0.79 feet for the year 2023.

3.3 Phase Separated Hydrocarbons

Groundwater measurements were obtained using an oil/water interface probe, which was also used to determine the presence of PSH.

During the March 2023 sampling event, PSH was observed in four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17). PSH thickness in these wells ranged from 0.01 feet to 1.58 feet.

During the June 2023 sampling event, PSH was observed in four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17). PSH thickness in these wells ranged from 0.01 feet to 1.14 feet.

During the Septmeber 2023 sampling event, PSH was observed in four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17). PSH thickness in these wells ranged from 0.02 feet to 5.09 feet.

During the December 2023 sampling event, PSH was observed in four (4) monitor wells (MW-2, MW-13, MW-14, and MW-17). PSH thickness in these wells ranged from 0.02 feet to 2.97 feet.

PSH plume maps are presented as Figures 3a, 3b, 3c, and 3d in Appendix A.

3.4 Groundwater Sampling Results

During the March 2023 sampling event, 14 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-7, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations were below the applicable laboratory MDLs in all wells sampled. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-7, MW-8, MW-11, and MW-20 which exhibited toluene concentrations of 0.000688 mg/L, 0.000911 mg/L, 0.000416 mg/L, and 0.000372 mg/L, respectively. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-3, MW-15, and MW-19 which exhibited Ethylbenzene concentrations of 0.0164 mg/L, 0.00352 mg/L, and 0.00149 mg/L, respectively. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations ranged from below the laboratory MDL in wells MW-7, MW-8, MW-9, MW-11, and MW-20 to 0.00823 mg/L in MW-3. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

During the June 2023 sampling event, 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations were below the applicable laboratory MDLs in all wells sampled. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations were below the applicable laboratory MDLs in all wells sampled. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.

- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-3 and MW-15, which exhibited ethylbenzene concentrations of 0.00373 mg/L and 0.00148 mg/L, respectively. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were below the applicable laboratory MDLs in all wells sampled. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

During the Septmeber 2023 sampling event, 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations were below the applicable laboratory MDLs in all wells sampled. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations were below the applicable laboratory MDLs in all wells sampled. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-3, which exhibited an ethylbenzene concentration of 0.00740 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-3, which exhibited xylene concentrations of 0.00286 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

During the December 2023 sampling event, 13 monitor wells (MW-1, MW-3, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-18, MW-19, and MW-20) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-18, which exhibited a benzene concentration of 0.00107 mg/L. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations were below the applicable laboratory MDLs in all wells sampled. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.

- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-3 and MW-15, which exhibited ethylbenzene concentrations of 0.00250 mg/L and 0.00100 mg/L, respectively. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-19, which exhibited a xylene concentration of 0.00127 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

The results of the laboratory analyses are summarized in Table 2 – Groundwater Analytical Data - Historical in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C.

4. CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the groundwater monitoring events conducted at the site and provides recommendations for future actions.

4.1 Summary of Findings

- The groundwater flow direction is generally to the east with an average gradient of 0.0031 feet per foot based on the water level measurement data collected in 2023.
- Groundwater levels at the subject site have decreased slightly for the year 2023.
- PSH has impacted monitor wells MW-2, MW-13, MW-14, and MW-17 in 2023. PSH levels and extent have fluctuated in 2023. The PSH plume is well defined.
- Approximately 41.07 bbls of PSH was removed from the site during the year 2023

4.2 Recommendations

Based upon the results of the quarterly groundwater monitoring and PSH recovery efforts, Talon/LPE proposes the following actions:

- Continue PSH recovery via monthly MDPE events.
- Perform quarterly groundwater monitoring events in accordance with NMOCD directives.

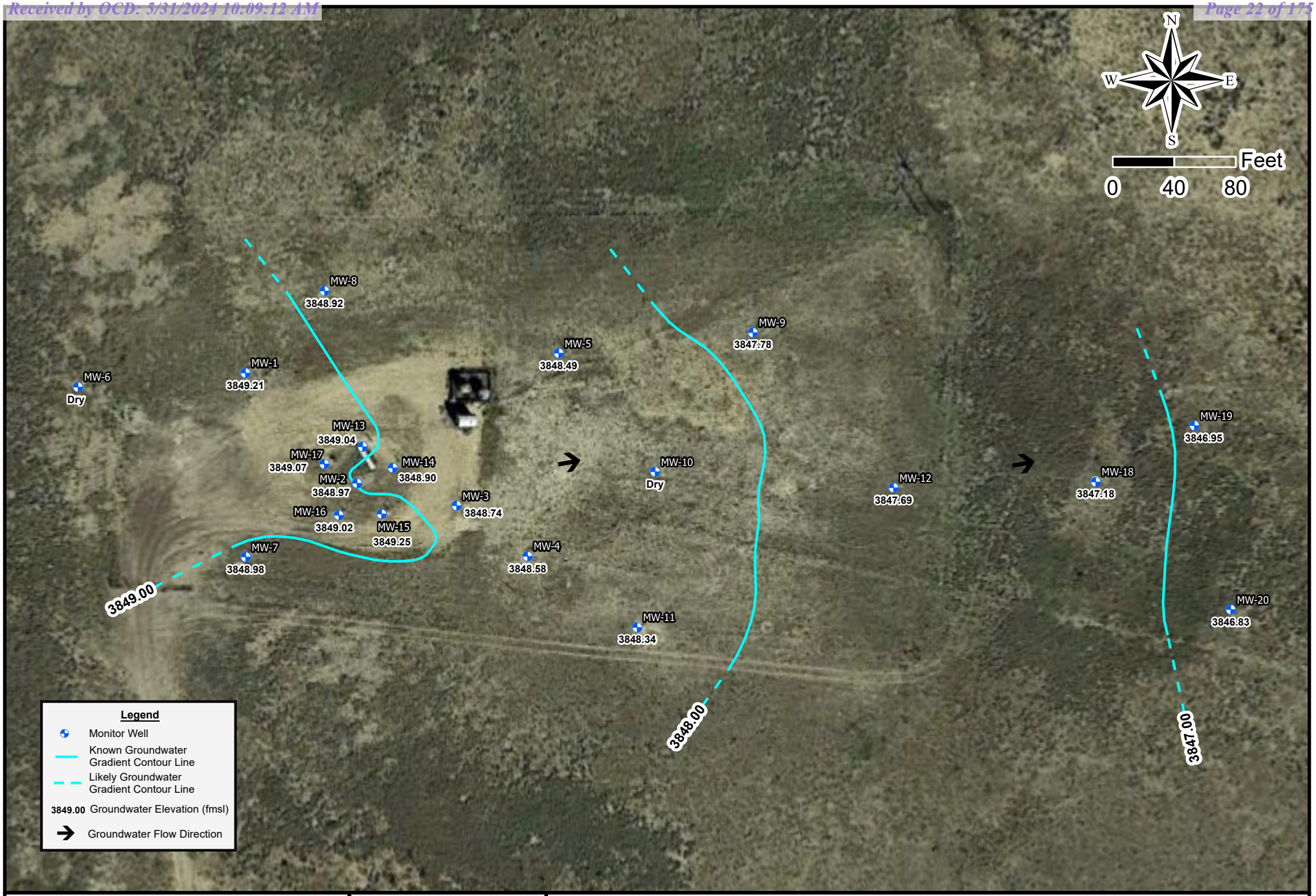
APPENDIX A

Figures

TALON LPE

Drafted: 2/14/2023
1 in = 80 ft
Drafted By: JAI

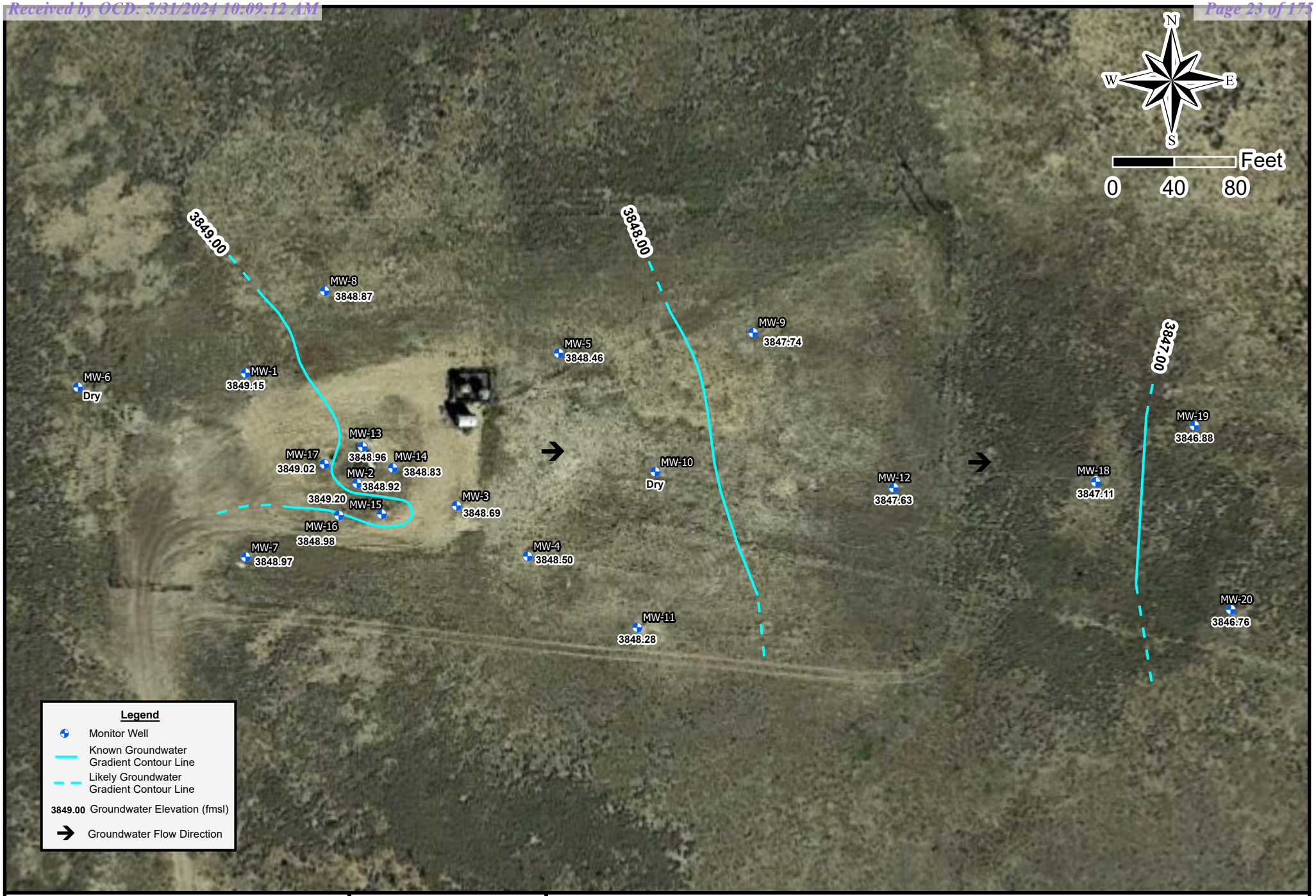
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 1 - Site Plan



TALON LPE

Drafted: 5/18/2023
1 in = 80 ft
Drafted By: IJR

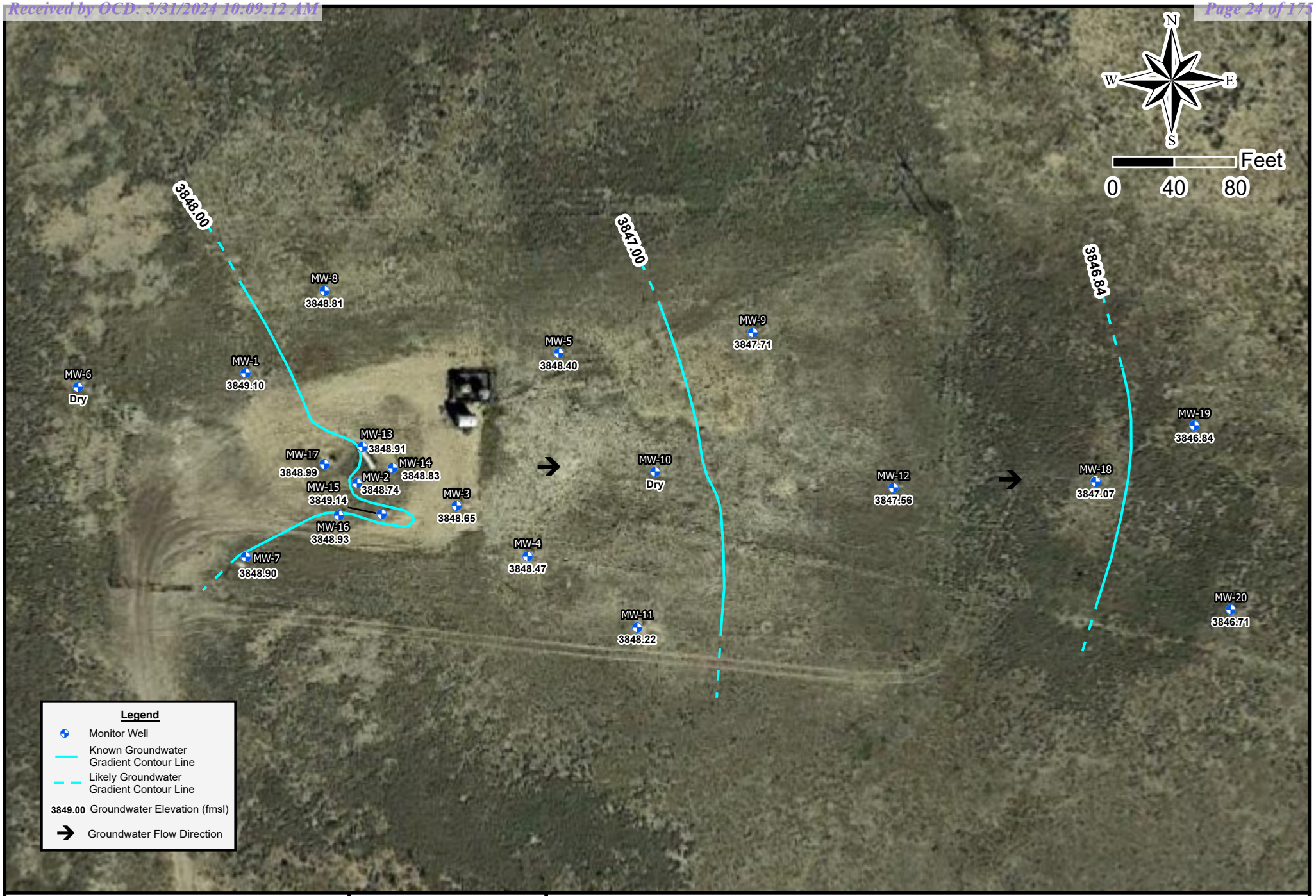
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 2a - Groundwater Gradient Map (03/01/2023)



TALON LPE

Drafted: 8/3/2023
1 in = 80 ft
Drafted By: IJR

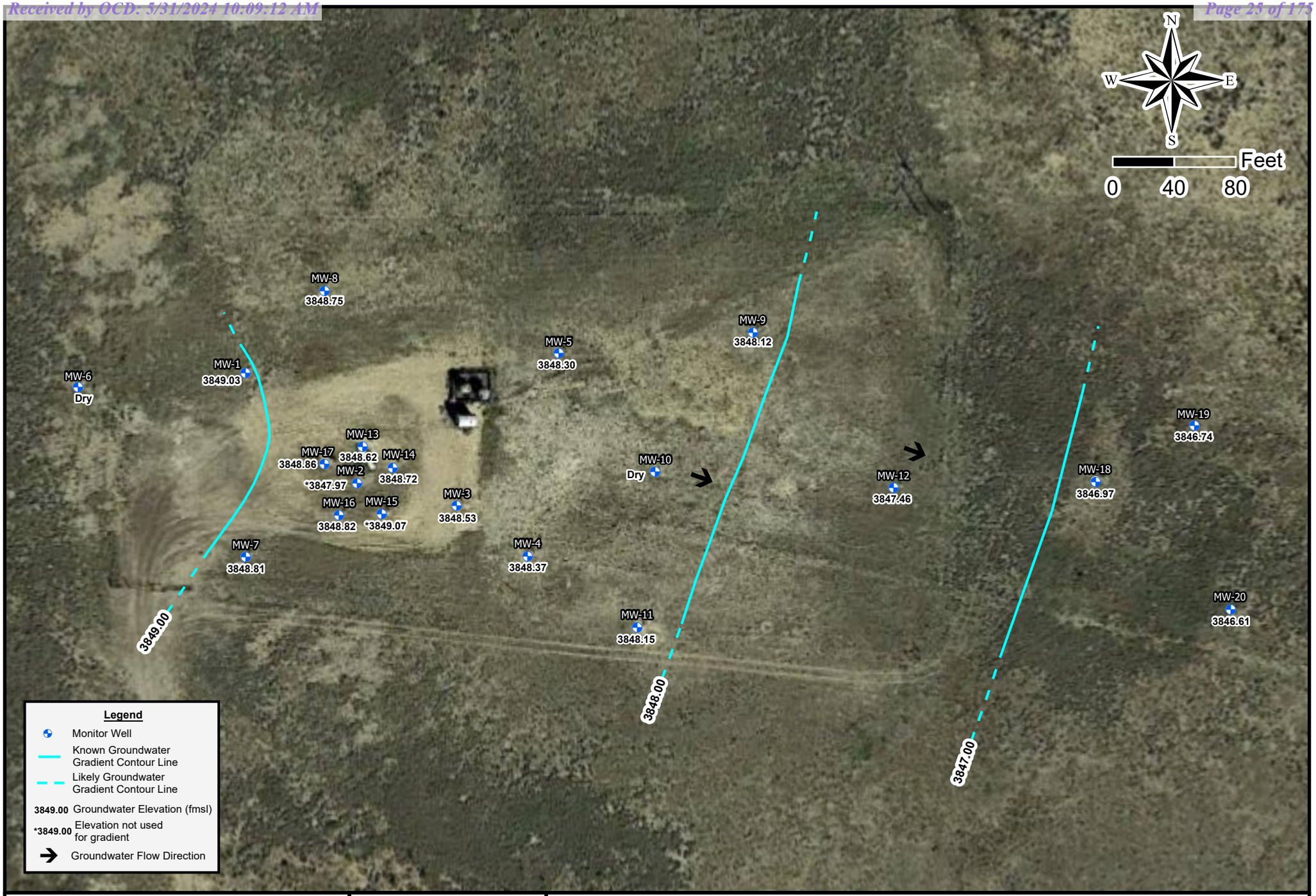
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 2b - Groundwater Gradient Map (06/05/2023)



TALON LPE

Drafted: 10/26/2023
1 in = 80 ft
Drafted By: IJR

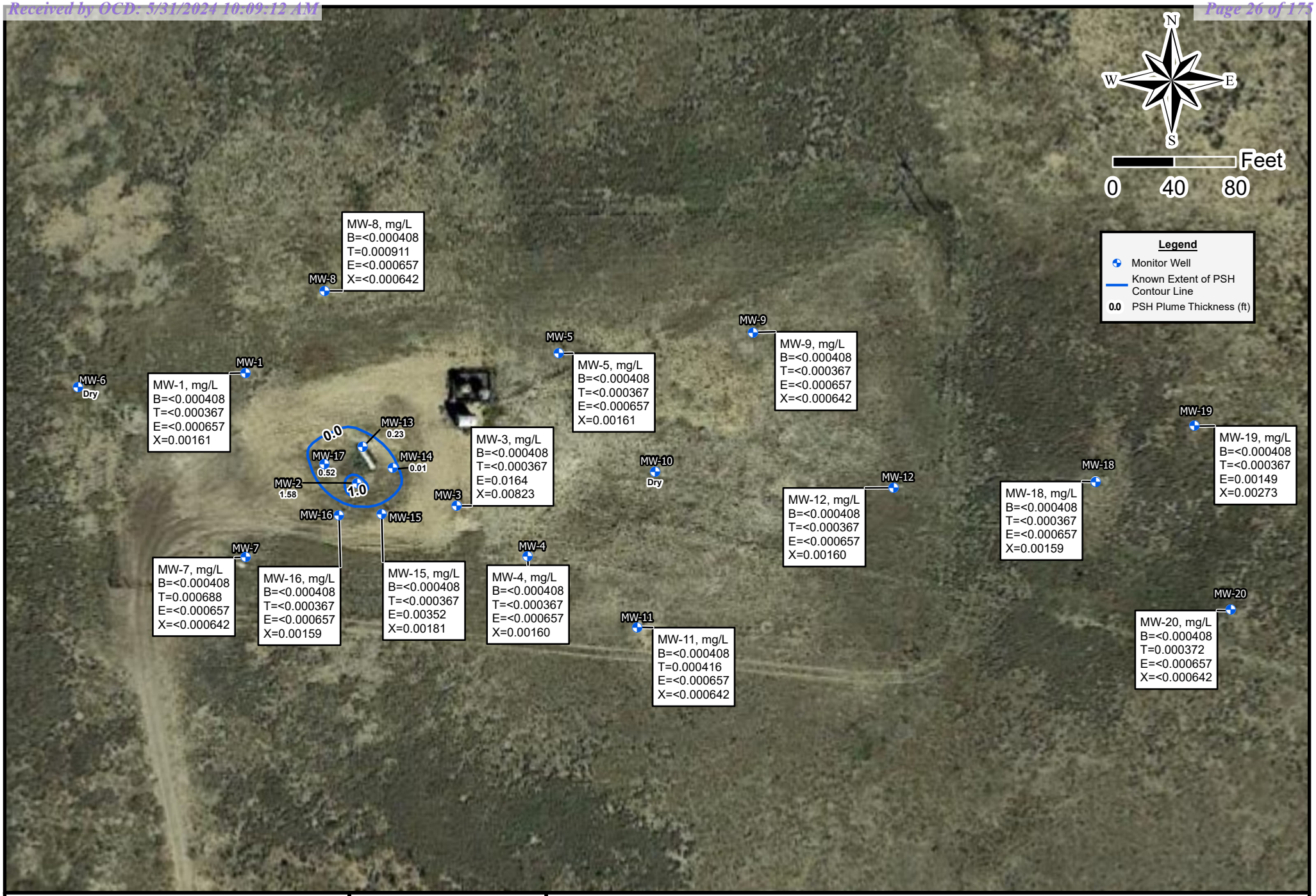
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 2c - Groundwater Gradient Map (09/05/2023)



TALON LPE

Drafted: 3/4/2024
1 in = 80 ft
Drafted By: JAI

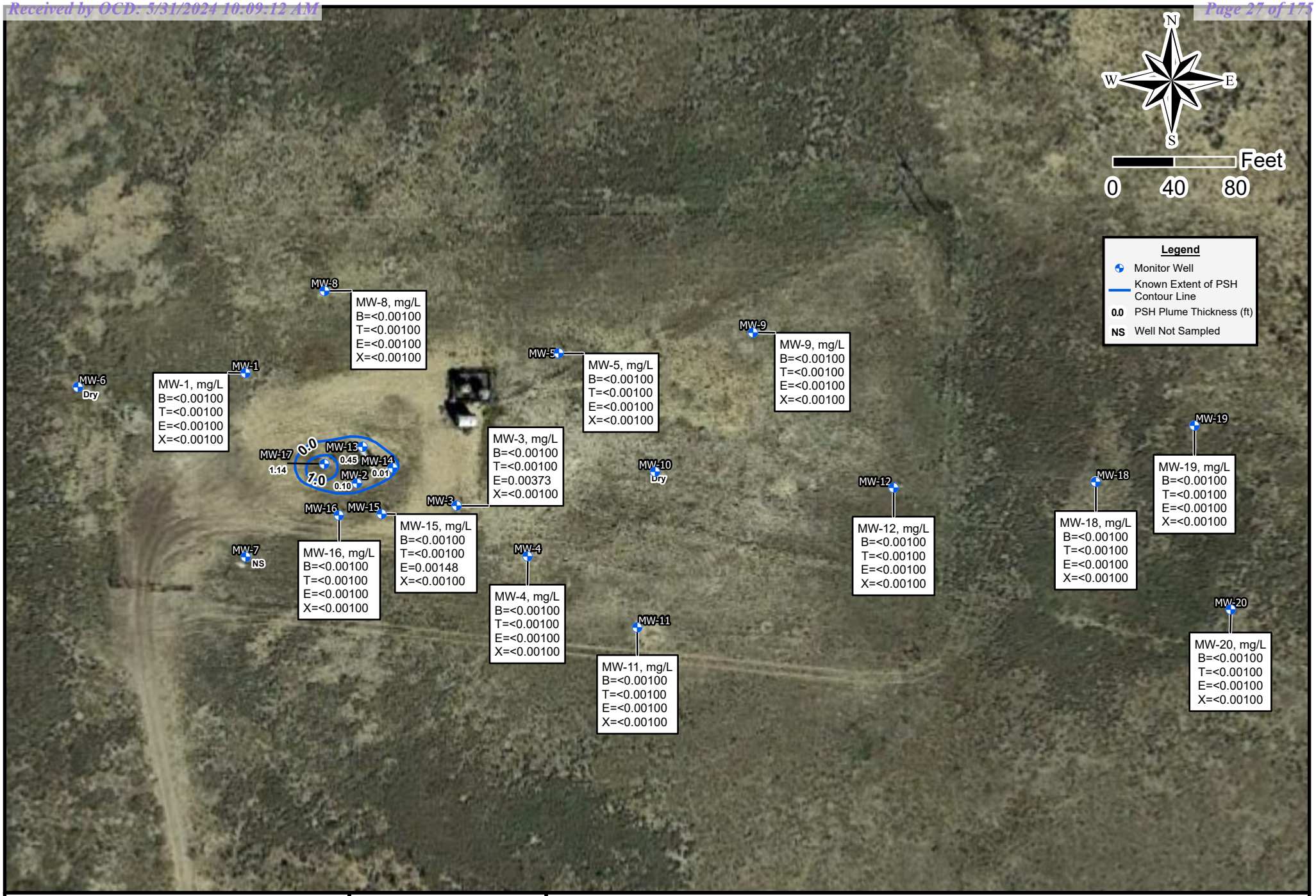
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 2d - Groundwater Gradient Map (12/05/2023)



TALON LPE

Drafted: 3/4/2024
1 in = 80 ft
Drafted By: JAI

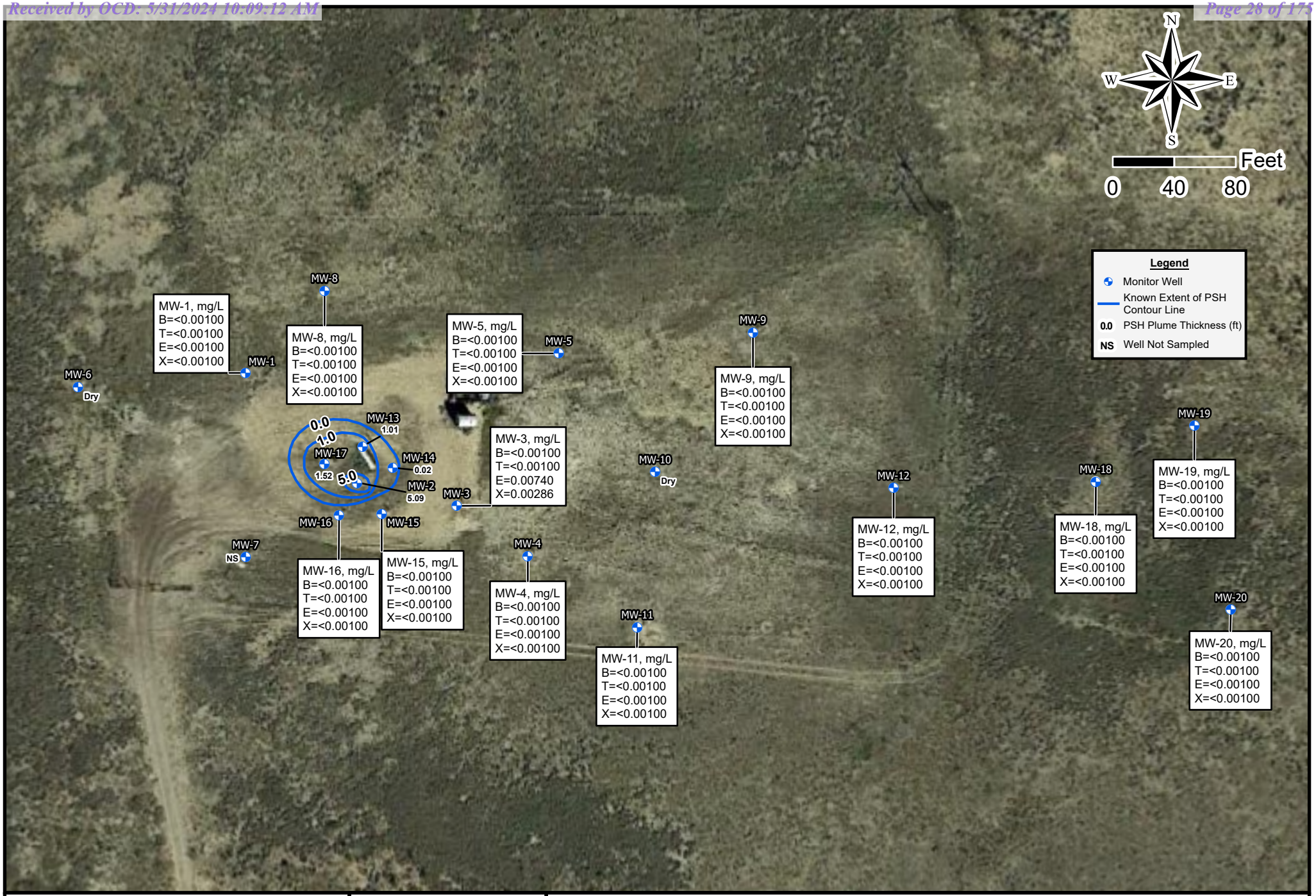
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3a - PSH Thickness and Groundwater Concentration Map (03/01-02/2023)



TALON LPE

Drafted: 3/4/2024
1 in = 80 ft
Drafted By: JAI

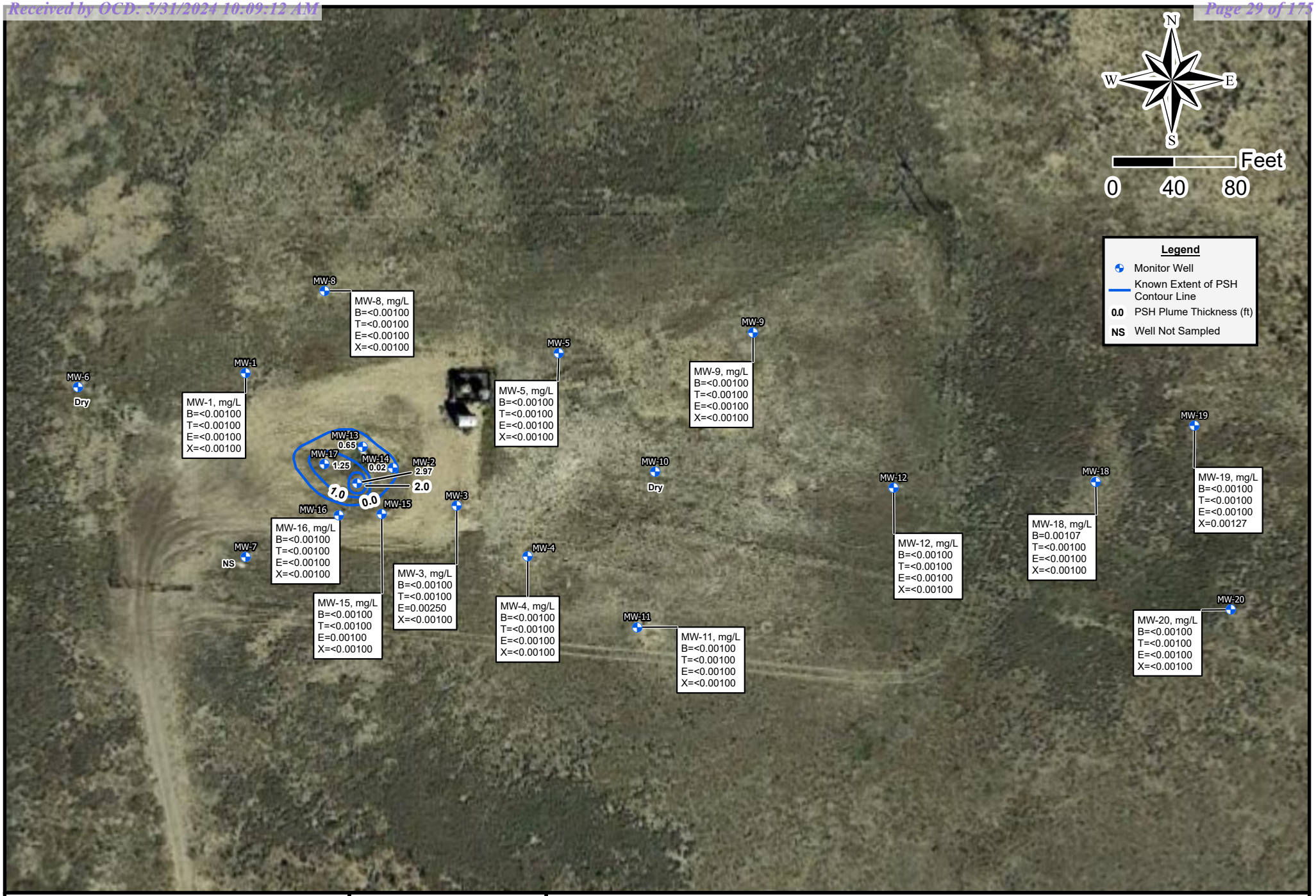
Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3b - PSH Thickness and Groundwater Concentration Map (06/07-08/2023)



TALON LPE

Drafted: 10/23/2023
1 in = 80 ft
Drafted By: IJR

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3c - PSH Thickness and Groundwater Concentration Map (09/05/2023)



TALON LPE

Drafted: 3/4/2024
1 in = 80 ft
Drafted By: JAI

Lovington Deep 6"
SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico
32.867039, -103.387542
Figure 3d - PSH Thickness and Groundwater Concentration Map (12/05-06/2023)

APPENDIX B

Tables

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-1 4"	3915.51	54	74	03/08/2016	64.98	-	-	3850.53
				05/24/2016	65.02	-	-	3850.49
				09/08/2016	65.06	-	-	3850.45
				12/05/2016	64.76	-	-	3850.75
				03/08/2017	64.80	-	-	3850.71
				06/13/2017	65.21	-	-	3850.30
				09/12/2017	65.22	-	-	3850.29
				12/13/2017	65.28	-	-	3850.23
				03/23/2018	65.33	-	-	3850.18
				06/12/2018	65.38	-	-	3850.13
				09/10/2018	65.34	-	-	3850.17
				12/11/2018	65.49	-	-	3850.02
				03/13/2019	65.54	-	-	3849.97
				06/10/2019	64.59	-	-	3850.92
				09/25/2019	65.83	-	-	3849.68
				12/06/2019	65.65	-	-	3849.86
				03/11/2020	65.73	-	-	3849.78
				05/06/2020	65.70	-	-	3849.81
				06/09/2020	65.77	-	-	3849.74
				09/04/2020	65.83	-	-	3849.68
				12/11/2020	65.84	-	-	3849.67
				03/16/2021	65.85	-	-	3849.66
				06/11/2021	65.94	-	-	3849.57
				09/01/2021	65.98	-	-	3849.53
				11/29/2021	66.04	-	-	3849.47
				03/02/2022	66.09	-	-	3849.42
				06/02/2022	66.14	-	-	3849.37
				09/13/2022	66.22	-	-	3849.29
				12/01/2022	66.24	-	-	3849.27
				03/01/2023	66.30	-	-	3849.21
				06/05/2023	66.36	-	-	3849.15
				09/05/2023	66.41	-	-	3849.10
				12/05/2023	66.48	-	-	3849.03
MW-2 4"	3915.04	54	74	03/08/2016	68.80	63.91	4.89	3850.32
				05/24/2016	68.57	64.00	4.57	3850.29
				09/08/2016	68.32	64.08	4.24	3850.26
				12/01/2016	68.67	64.10	4.57	3850.19
				03/08/2017	68.33	64.20	4.13	3850.16
				06/13/2017	68.42	64.20	4.22	3850.14
				09/12/2017	68.30	64.30	4.00	3850.08
				12/13/2017	68.00	64.40	3.60	3850.05
				03/23/2018	65.22	65.05	0.17	3849.96
				06/12/2018	67.10	64.50	2.60	3850.11
				09/10/2018	66.52	64.50	2.02	3850.21
				12/11/2018	68.28	64.60	3.68	3849.83
				03/13/2019	66.82	65.12	1.70	3849.64
				06/10/2019	DR	-	-	-
				12/06/2019	DR	-	-	-
				03/11/2020	65.79	65.40	0.39	3849.58
				05/06/2020	66.92	65.20	1.72	3849.56
				06/09/2020	DR	-	-	-
				09/04/2020	67.75	65.10	2.65	3849.50
				12/11/2020	65.73	65.65	0.08	3849.38
				03/16/2021	DR	-	-	
				06/11/2021	68.90	65.09	3.81	3849.32
				09/01/2021	68.94	65.10	3.84	3849.31
				11/29/2021	67.20	65.55	1.65	3849.22
				03/02/2022	69.25	65.27	3.98	3849.11
				06/02/2022	68.90	65.25	3.65	3849.19
				09/13/2022	69.55	65.47	4.08	3848.90
				12/01/2022	69.04	65.39	3.65	3849.05
				03/01/2023	67.39	65.81	1.58	3848.97
				06/05/2023	66.20	66.10	0.10	3848.92
				09/05/2023	70.55	65.46	5.09	3848.74
				12/05/2023	69.55	66.58	2.97	3847.97
MW-3 4"	3915.24	54	74	03/08/2016	65.16	-	-	3850.08
				05/24/2016	65.21	-	-	3850.03
				09/08/2016	65.25	-	-	3849.99
				12/05/2016	65.27	-	-	3849.97
				03/08/2017	65.33	-	-	3849.91
				06/13/2017	65.39	-	-	3849.85
				09/12/2017	65.44	-	-	3849.80
				12/13/2017	65.70	-	-	3849.54
				03/23/2018	65.50	-	-	3849.74
				06/12/2018	65.59	-	-	3849.65
				09/10/2018	65.52	-	-	3849.72
				12/11/2018	65.66	-	-	3849.58
				03/13/2019	65.69	-	-	3849.55
				06/10/2019	65.75	-	-	3849.49
				09/25/2019	65.80	-	-	3849.44
				12/06/2019	65.85	-	-	3849.39
				03/11/2020	65.89	-	-	3849.35
				06/09/2020	65.97	-	-	3849.27
				09/04/2020	65.97	-	-	3849.27
				12/11/2020	66.04	-	-	3849.20
				03/16/2021	66.05	-	-	3849.19
				06/11/2021	65.93	-	-	3849.31
				09/01/2021	66.17	-	-	3849.07
				11/29/2021	66.21	-	-	3849.03
				03/02/2022	66.30	-	-	3848.94
				06/02/2022	66.33	-	-	3848.91
				09/13/2022	66.42	-	-	3848.82
				12/01/2022	66.43	-	-	3848.81
				03/01/2023	66.50	-	-	3848.74
				06/05/2023	66.55	-	-	3848.69
				09/05/2023	66.59	-	-	3848.65
				12/05/2023	66.71	-	-	3848.53

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-4 2"	3915.30	54	74	03/08/2016	65.41	-	-	3849.89
				05/24/2016	65.44	-	-	3849.86
				09/08/2016	65.47	-	-	3849.83
				12/05/2016	65.50	-	-	3849.80
				03/08/2017	65.55	-	-	3849.75
				06/13/2017	65.61	-	-	3849.69
				09/12/2017	65.64	-	-	3849.66
				12/13/2017	65.70	-	-	3849.60
				03/23/2018	65.73	-	-	3849.57
				06/12/2018	65.81	-	-	3849.49
				09/10/2018	65.74	-	-	3849.56
				12/11/2018	65.90	-	-	3849.40
				03/13/2019	65.96	-	-	3849.34
				06/10/2019	66.00	-	-	3849.30
				09/25/2019	66.04	-	-	3849.26
				12/06/2019	66.13	-	-	3849.17
				03/11/2020	66.17	-	-	3849.13
				05/06/2020	66.12	-	-	3849.18
				06/09/2020	66.18	-	-	3849.12
				09/04/2020	66.23	-	-	3849.07
				12/11/2020	66.27	-	-	3849.03
				03/16/2021	66.30	-	-	3849.00
				06/11/2021	66.78	-	-	3848.52
				09/01/2021	66.40	-	-	3848.90
				11/29/2021	66.45	-	-	3848.85
				03/02/2022	66.53	-	-	3848.77
				06/02/2022	66.55	-	-	3848.75
				09/13/2022	66.67	-	-	3848.63
				12/01/2022	66.66	-	-	3848.64
				03/01/2023	66.72	-	-	3848.58
				06/05/2023	66.80	-	-	3848.50
				09/05/2023	66.83	-	-	3848.47
				12/05/2023	66.93	-	-	3848.37
MW-5 4"	3915.26	54	74	03/08/2016	65.42	-	-	3849.84
				05/24/2016	65.47	-	-	3849.79
				09/08/2016	65.51	-	-	3849.75
				12/05/2016	65.52	-	-	3849.74
				03/08/2017	65.59	-	-	3849.67
				06/13/2017	65.65	-	-	3849.61
				09/12/2017	65.70	-	-	3849.56
				12/13/2017	65.75	-	-	3849.51
				03/23/2018	65.78	-	-	3849.48
				06/12/2018	65.90	-	-	3849.36
				09/10/2018	65.78	-	-	3849.48
				12/11/2018	65.93	-	-	3849.33
				03/13/2019	65.95	-	-	3849.31
				06/10/2019	66.02	-	-	3849.24
				09/25/2019	66.06	-	-	3849.20
				12/06/2019	66.15	-	-	3849.11
				03/11/2020	66.15	-	-	3849.11
				05/06/2020	65.90	-	-	3849.36
				06/09/2020	66.22	-	-	3849.04
				09/04/2020	66.25	-	-	3849.01
				12/11/2020	66.31	-	-	3848.95
				03/16/2021	66.33	-	-	3848.93
				06/11/2021	66.40	-	-	3848.86
				09/01/2021	66.44	-	-	3848.82
				11/29/2021	66.50	-	-	3848.76
				03/02/2022	66.55	-	-	3848.71
				06/02/2022	66.6	-	-	3848.66
				09/13/2022	66.66	-	-	3848.60
				12/01/2022	66.70	-	-	3848.56
				03/01/2023	66.77	-	-	3848.49
				06/05/2023	66.80	-	-	3848.46
				09/05/2023	66.86	-	-	3848.40
				12/05/2023	66.96	-	-	3848.30
				03/01/2023	66.77	-	-	3848.49
				06/05/2023	66.80	-	-	3848.46
				09/05/2023	66.86	-	-	3848.40
				12/05/2023	66.96	-	-	3848.30
MW-6 2"	3915.45	52	72	03/08/2016	64.71	-	-	3850.74
				05/24/2016	64.74	-	-	3850.71
				09/08/2016	64.80	-	-	3850.65
				12/05/2016	64.85	-	-	3850.60
				03/08/2017	64.90	-	-	3850.55
				06/13/2017	64.91	-	-	3850.54
				09/12/2017	64.97	-	-	3850.48
				12/13/2017	65.02	-	-	3850.43
				03/23/2018	65.04	-	-	3850.41
				06/12/2018	65.11	-	-	3850.34
				09/10/2018	65.04	-	-	3850.41
				12/11/2018	65.22	-	-	3850.23
				03/13/2019	65.23	-	-	3850.22
				06/10/2019	68.27	-	-	3847.18
				09/25/2019	DR	-	-	-
				12/06/2019	DR	-	-	-
				03/11/2020	DR	-	-	-
				05/06/2020	DR	-	-	-
				06/09/2020	DR	-	-	-
				09/04/2020	DR	-	-	-
				12/11/2020	DR	-	-	-
				03/16/2021	DR	-	-	-
				06/10/2021	DR	-	-	-
				09/01/2021	DR	-	-	-
				11/29/2021	DR	-	-	-
				03/02/2022	DR	-	-	-
				06/02/2022	DR	-	-	-
				09/13/2022	DR	-	-	-
				12/01/2022	DR	-	-	-
				03/01/2023	DR	-	-	-
				06/05/2023	DR	-	-	-
				09/05/2023	DR	-	-	-
				12/05/2023	DR	-	-	-

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-7 2"	3914.73	51	71	03/08/2016	64.39	-	-	3850.34
				05/24/2016	64.46	-	-	3850.27
				09/08/2016	64.49	-	-	3850.24
				12/05/2016	64.50	-	-	3850.23
				03/08/2017	64.29	-	-	3850.44
				06/13/2017	64.61	-	-	3850.12
				09/12/2017	64.67	-	-	3850.06
				12/13/2017	64.72	-	-	3850.01
				03/23/2018	65.75	-	-	3848.98
				06/12/2018	64.86	-	-	3849.87
				09/10/2018	64.78	-	-	3849.95
				12/11/2018	64.91	-	-	3849.82
				03/13/2019	64.91	-	-	3849.82
				06/10/2019	64.98	-	-	3849.75
				09/25/2019	65.04	-	-	3849.69
				12/06/2019	65.10	-	-	3849.63
				03/11/2020	OB	-	-	-
				05/06/2020	OB	-	-	-
				06/09/2020	OB	-	-	-
				09/04/2020	66.37	-	-	3848.36
				12/11/2020	65.31	-	-	3849.42
				03/16/2021	66.35	-	-	3848.38
				06/11/2021	66.50	-	-	3848.23
				09/01/2021	65.43	-	-	3849.30
				11/29/2021	65.45	-	-	3849.28
				03/02/2022	65.55	-	-	3849.18
				06/02/2022	65.56	-	-	3849.17
				09/13/2022	65.65	-	-	3849.08
				12/01/2022	65.66	-	-	3849.07
				03/01/2023	65.75	-	-	3848.98
				06/05/2023	65.76	-	-	3848.97
				09/05/2023	65.83	-	-	3848.90
				12/05/2023	65.92	-	-	3848.81
MW-8 2"	3915.19	53	73	03/08/2016	64.95	-	-	3850.24
				05/24/2016	65.00	-	-	3850.19
				09/08/2016	65.04	-	-	3850.15
				12/05/2016	65.07	-	-	3850.12
				03/08/2017	65.10	-	-	3850.09
				06/13/2017	65.17	-	-	3850.02
				09/12/2017	65.21	-	-	3849.98
				12/13/2017	65.26	-	-	3849.93
				03/23/2018	65.28	-	-	3849.91
				06/12/2018	65.36	-	-	3849.83
				09/10/2018	65.31	-	-	3849.88
				12/11/2018	65.45	-	-	3849.74
				03/13/2019	65.49	-	-	3849.70
				06/10/2019	65.52	-	-	3849.67
				09/25/2019	65.60	-	-	3849.59
				12/06/2019	65.83	-	-	3849.36
				03/11/2020	65.68	-	-	3849.51
				05/06/2020	65.68	-	-	3849.51
				06/09/2020	65.74	-	-	3849.45
				09/04/2020	65.74	-	-	3849.45
				12/11/2020	65.81	-	-	3849.38
				03/16/2021	65.83	-	-	3849.36
				06/11/2021	66.10	-	-	3849.09
				09/01/2021	65.94	-	-	3849.25
				11/29/2021	65.98	-	-	3849.21
				03/02/2022	66.10	-	-	3849.09
				06/02/2022	66.11	-	-	3849.08
				09/13/2022	66.18	-	-	3849.01
				12/01/2022	66.22	-	-	3848.97
				03/01/2023	66.27	-	-	3848.92
				06/05/2023	66.32	-	-	3848.87
				09/05/2023	66.38	-	-	3848.81
				12/05/2023	66.44	-	-	3848.75
MW-9 2"	3913.92	55	75	03/08/2016	64.33	-	-	3849.59
				05/24/2016	64.32	-	-	3849.60
				09/08/2016	64.35	-	-	3849.57
				12/05/2016	64.36	-	-	3849.56
				03/08/2017	63.38	-	-	3850.54
				06/13/2017	65.46	-	-	3848.46
				09/12/2017	64.53	-	-	3849.39
				12/13/2017	64.59	-	-	3849.33
				03/23/2018	64.75	-	-	3849.17
				06/12/2018	64.68	-	-	3849.24
				09/10/2018	64.71	-	-	3849.21
				12/11/2018	64.76	-	-	3849.16
				03/13/2019	64.80	-	-	3849.12
				06/10/2019	64.85	-	-	3849.07
				09/25/2019	64.90	-	-	3849.02
				12/06/2019	64.97	-	-	3848.95
				03/11/2020	64.99	-	-	3848.93
				05/06/2020	65.00	-	-	3848.92
				06/09/2020	65.05	-	-	3848.87
				09/04/2020	65.60	-	-	3848.32
				12/11/2020	65.67	-	-	3848.25
				03/16/2021	65.75	-	-	3848.17
				06/11/2021	65.25	-	-	3848.67
				09/01/2021	65.30	-	-	3848.62
				11/29/2021	65.30	-	-	3848.62
				03/02/2022	65.93	-	-	3847.99
				06/02/2022	65.99	-	-	3847.93
				09/13/2022	66.04	-	-	3847.88
				12/01/2022	66.08	-	-	3847.84
				03/01/2023	66.14	-	-	3847.78
				06/05/2023	66.18	-	-	3847.74
				09/05/2023	66.21	-	-	3847.71
				12/05/2023	65.80	-	-	3848.12

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-10 2"	3914.96	53	73	03/08/2016	65.32	-	-	3849.64
				05/24/2016	65.40	-	-	3849.56
				09/08/2016	65.41	-	-	3849.55
				12/05/2016	65.48	-	-	3849.48
				03/08/2017	65.50	-	-	3849.46
				06/13/2017	65.54	-	-	3849.42
				09/12/2017	65.46	-	-	3849.50
				12/13/2017	65.66	-	-	3849.30
				03/23/2018	65.64	-	-	3849.32
				06/12/2018	65.30	-	-	3849.66
				09/10/2018	65.72	-	-	3849.24
				12/11/2018	65.82	-	-	3849.14
				03/13/2019	65.87	-	-	3849.09
				06/10/2019	65.92	-	-	3849.04
				09/25/2019	65.97	-	-	3848.99
				12/06/2019	66.02	-	-	3848.94
				03/11/2020	66.05	-	-	3848.91
				05/06/2020	66.00	-	-	3848.96
				06/09/2020	66.07	-	-	3848.89
				09/04/2020	66.98	-	-	3847.98
				12/11/2020	DR	-	-	-
				03/16/2021	DR	-	-	-
				06/11/2021	DR	-	-	-
				09/01/2021	DR	-	-	-
				11/29/2021	DR	-	-	-
				03/02/2022	DR	-	-	-
				06/02/2022	DR	-	-	-
				09/13/2022	DR	-	-	-
				12/01/2022	DR	-	-	-
				03/01/2023	DR	-	-	-
				06/05/2023	DR	-	-	-
				09/05/2023	DR	-	-	-
				12/05/2023	DR	-	-	-
MW-11 2"	3914.40	52	72	03/08/2016	64.70	-	-	3849.70
				05/24/2016	65.77	-	-	3848.63
				09/08/2016	64.80	-	-	3849.60
				12/05/2016	64.81	-	-	3849.59
				03/08/2017	64.90	-	-	3849.50
				06/13/2017	64.93	-	-	3849.47
				09/12/2017	64.97	-	-	3849.43
				12/13/2017	65.04	-	-	3849.36
				03/23/2018	65.03	-	-	3849.37
				06/12/2018	65.19	-	-	3849.21
				09/10/2018	65.08	-	-	3849.32
				12/11/2018	65.21	-	-	3849.19
				03/13/2019	65.25	-	-	3849.15
				06/10/2019	65.34	-	-	3849.06
				09/25/2019	65.36	-	-	3849.04
				12/06/2019	65.43	-	-	3848.97
				03/11/2020	65.47	-	-	3848.93
				05/06/2020	65.45	-	-	3848.95
				06/09/2020	65.47	-	-	3848.93
				09/04/2020	65.52	-	-	3848.88
				12/11/2020	65.80	-	-	3848.60
				03/16/2021	65.63	-	-	3848.77
				06/11/2021	68.99	-	-	3845.41
				09/01/2021	65.74	-	-	3848.66
				11/29/2021	65.80	-	-	3848.60
				03/02/2022	65.90	-	-	3848.5
				06/02/2022	65.90	-	-	3848.50
				09/13/2022	65.97	-	-	3848.43
				12/01/2022	66.01	-	-	3848.39
				03/01/2023	66.06	-	-	3848.34
				06/05/2023	66.12	-	-	3848.28
				09/05/2023	66.18	-	-	3848.22
				12/05/2023	66.25	-	-	3848.15
MW-12 2"	3913.97	58	78	03/08/2016	64.93	-	-	3849.04
				05/24/2016	64.98	-	-	3848.99
				09/08/2016	65.02	-	-	3848.95
				12/05/2016	65.05	-	-	3848.92
				03/08/2017	65.07	-	-	3848.90
				06/13/2017	65.18	-	-	3848.79
				09/12/2017	64.95	-	-	3849.02
				12/13/2017	64.76	-	-	3849.21
				03/23/2018	64.45	-	-	3849.52
				06/12/2018	65.20	-	-	3848.77
				09/10/2018	65.31	-	-	3848.66
				12/11/2018	65.45	-	-	3848.52
				03/13/2019	65.46	-	-	3848.51
				06/10/2019	65.57	-	-	3848.40
				09/25/2019	65.59	-	-	3848.38
				12/06/2019	65.67	-	-	3848.30
				03/11/2020	65.68	-	-	3848.29
				05/06/2020	65.70	-	-	3848.27
				06/09/2020	65.71	-	-	3848.26
				09/04/2020	67.75	-	-	3846.22
				12/11/2020	65.83	-	-	3848.14
				03/16/2021	65.83	-	-	3848.14
				06/11/2021	65.94	-	-	3848.03
				09/01/2021	66.00	-	-	3847.97
				11/29/2021	66.00	-	-	3847.97
				03/02/2022	66.10	-	-	3847.87
				06/02/2022	66.13	-	-	3847.84
				09/13/2022	66.20	-	-	3847.77
				12/01/2022	66.23	-	-	3847.74
				03/01/2023	66.28	-	-	3847.69
				06/05/2023	66.34	-	-	3847.63
				09/05/2023	66.41	-	-	3847.56
				12/05/2023	66.51	-	-	3847.46

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-13 4"	3915.83	54	79	03/08/2016	67.60	65.10	2.50	3850.32
				05/24/2016	66.69	65.31	1.38	3850.29
				09/08/2016	66.53	65.42	1.11	3850.23
				12/01/2016	66.94	65.41	1.53	3850.17
				03/08/2017	66.80	65.42	1.38	3850.18
				06/13/2017	66.45	65.57	0.88	3850.11
				09/12/2017	66.45	65.58	0.87	3850.11
				12/13/2017	66.20	65.71	0.49	3850.04
				03/23/2018	65.81	65.80	0.01	3850.03
				06/12/2018	66.55	65.80	0.75	3849.91
				09/10/2018	65.88	65.78	0.10	3850.03
				12/11/2018	67.00	65.80	1.20	3849.83
				03/13/2019	66.27	66.12	0.15	3849.69
				06/10/2019	67.20	66.00	1.20	3849.63
				09/25/2019	66.55	66.04	0.51	3849.71
				12/06/2019	66.80	66.25	0.55	3849.49
				03/11/2020	66.30	66.24	0.06	3849.58
				05/06/2020	66.35	66.20	0.15	3849.61
				06/09/2020	66.86	66.10	0.76	3849.60
				09/04/2020	DR	-	-	-
				12/11/2020	66.55	66.54	0.01	3849.29
				03/16/2021	67.50	66.40	1.10	3849.25
				06/11/2021	67.10	66.40	0.70	3849.31
				09/01/2021	67.15	66.35	0.80	3849.35
				11/29/2021	66.83	66.80	0.03	3849.03
				03/02/2022	68.57	66.23	2.34	3849.21
				06/02/2022	67.85	66.54	1.31	3849.07
				09/13/2022	68.25	66.80	1.45	3848.79
				12/01/2022	67.45	66.84	0.61	3848.89
				03/01/2023	66.98	66.75	0.23	3849.04
				06/05/2023	67.25	66.80	0.45	3848.96
				09/05/2023	67.76	66.75	1.01	3848.91
				12/05/2023	67.75	67.10	0.65	3848.62
MW-14 4"	3915.72	53	78	03/08/2016	68.35	64.91	3.44	3850.24
				05/24/2016	65.62	65.49	0.13	3850.21
				09/08/2016	65.73	65.54	0.19	3850.15
				12/01/2016	66.31	65.50	0.81	3850.09
				03/08/2017	66.25	65.50	0.75	3850.10
				06/13/2017	66.72	65.50	1.22	3850.02
				09/12/2017	67.05	65.50	1.55	3849.96
				12/13/2017	66.90	65.45	1.45	3850.03
				03/23/2018	67.75	65.42	2.33	3849.92
				06/12/2018	68.09	65.49	2.60	3849.80
				09/10/2018	65.19	65.18	0.01	3850.54
				12/11/2018	66.08	65.95	0.13	3849.75
				03/13/2019	66.05	66.03	0.02	3849.69
				06/10/2019	66.12	66.08	0.04	3849.63
				09/25/2019	66.12	66.10	0.02	3849.62
				12/06/2019	66.20	66.17	0.03	3849.55
				03/11/2020	66.25	66.20	0.05	3849.51
				05/06/2020	66.25	66.20	0.05	3849.51
				06/09/2020	66.27	66.22	0.05	3849.49
				09/04/2020	66.30	66.29	0.01	3849.43
				12/11/2020	66.37	66.36	0.01	3849.36
				03/16/2021	66.40	66.38	0.02	3849.34
				06/11/2021	66.46	66.44	0.02	3849.28
				09/01/2021	66.48	66.47	0.01	3849.25
				11/29/2021	66.56	66.52	0.04	3849.19
				03/02/2022	66.60	66.58	0.02	3849.14
				06/02/2022	66.65	66.63	0.02	3849.09
				09/13/2022	66.71	66.70	0.01	3849.02
				12/01/2022	66.79	66.78	0.01	3848.94
				03/01/2023	66.83	66.82	0.01	3848.90
				06/05/2023	66.90	66.89	0.01	3848.83
				09/05/2023	66.91	66.89	0.02	3848.83
				12/05/2023	67.02	67.00	0.02	3848.72
MW-15 4"	3915.84	54	79	03/08/2016	65.81	65.20	0.61	3850.54
				05/24/2016	65.87	65.21	0.66	3850.52
				09/08/2016	65.42	65.36	0.06	3850.47
				12/01/2016	65.48	65.42	0.06	3850.41
				03/08/2017	65.45	65.40	0.05	3850.43
				06/13/2017	65.68	65.46	0.22	3850.34
				09/12/2017	65.57	65.52	0.05	3850.31
				12/13/2017	65.65	65.59	0.06	3850.24
				03/23/2018	65.68	65.59	0.09	3850.24
				06/12/2018	65.80	65.65	0.15	3850.17
				09/10/2018	65.61	-	-	3850.23
				12/11/2018	65.77	-	-	3850.07
				03/13/2019	65.79	-	-	3850.05
				06/10/2019	65.84	-	-	3850.00
				09/25/2019	65.90	-	-	3849.94
				12/06/2019	65.97	-	-	3849.87
				03/11/2020	66.00	-	-	3849.84
				05/06/2020	66.00	-	-	3849.84
				06/09/2020	66.08	-	-	3849.76
				09/04/2020	66.05	-	-	3849.79
				12/11/2020	66.12	-	-	3849.72
				03/16/2021	66.15	-	-	3849.69
				06/11/2021	65.89	-	-	3849.95
				09/01/2021	66.26	-	-	3849.58
				11/29/2021	66.30	-	-	3849.54
				03/02/2022	66.40	-	-	3849.44
				06/02/2022	66.40	-	-	3849.44
				09/13/2022	66.52	-	-	3849.32
				12/01/2022	66.52	-	-	3849.32
				03/01/2023	66.59	-	-	3849.25
				06/05/2023	66.64	-	-	3849.20
				09/05/2023	66.70	-	-	3849.14
				12/05/2023	66.77	-	-	3849.07

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-16 4"	3915.43	54	79	03/08/2016	65.78	65.00	0.78	3850.30
				05/24/2016	65.85	65.00	0.85	3850.29
				09/08/2016	65.23	65.20	0.03	3850.23
				12/01/2016	65.32	65.23	0.09	3850.19
				03/08/2017	65.27	65.21	0.06	3850.21
				06/13/2017	65.35	65.29	0.06	3850.13
				09/12/2017	65.40	65.33	0.07	3850.09
				12/13/2017	65.44	65.38	0.06	3850.04
				03/23/2018	65.48	65.40	0.08	3850.02
				06/12/2018	65.65	65.45	0.20	3849.95
				09/10/2018	65.45	-	-	3849.98
				12/11/2018	65.60	-	-	3849.83
				03/13/2019	65.60	-	-	3849.83
				06/10/2019	65.65	-	-	3849.78
				09/25/2019	65.75	-	-	3849.68
				12/06/2019	65.86	-	-	3849.57
				03/11/2020	65.81	-	-	3849.62
				05/06/2020	65.82	-	-	3849.61
				06/09/2020	65.87	-	-	3849.56
				09/04/2020	65.90	-	-	3849.53
				12/11/2020	65.96	-	-	3849.47
				03/16/2021	65.97	-	-	3849.46
				06/11/2021	66.83	-	-	3848.60
				09/01/2021	66.07	-	-	3849.36
				11/29/2021	66.12	-	-	3849.31
				03/02/2022	66.25	-	-	3849.18
				06/02/2022	66.25	-	-	3849.18
				09/13/2022	66.31	-	-	3849.12
				12/01/2022	66.34	-	-	3849.09
				03/01/2023	66.41	-	-	3849.02
				06/05/2023	66.45	-	-	3848.98
				09/05/2023	66.50	-	-	3848.93
				12/05/2023	66.61	-	-	3848.82
MW-17 4"	3915.59	58	78	03/08/2016	68.59	64.51	4.08	3850.41
				05/24/2016	67.19	64.85	2.34	3850.35
				09/08/2016	66.61	65.04	1.57	3850.29
				12/01/2016	67.28	65.96	1.32	3849.41
				03/08/2017	66.97	65.03	1.94	3850.24
				06/13/2017	66.65	65.14	1.51	3850.20
				09/12/2017	66.43	65.28	1.15	3850.12
				12/13/2017	66.07	65.40	0.67	3850.08
				03/23/2018	65.64	65.51	0.13	3850.06
				06/12/2018	66.50	65.44	1.06	3849.98
				09/10/2018	66.59	65.38	1.21	3850.01
				12/11/2018	67.24	65.40	1.84	3849.89
				03/13/2019	66.19	65.84	0.35	3849.69
				06/10/2019	67.21	65.50	1.71	3849.81
				09/25/2019	66.55	65.68	0.87	3849.77
				12/06/2019	65.87	65.70	0.17	3849.86
				03/11/2020	66.05	65.91	0.14	3849.66
				05/06/2020	66.25	65.85	0.4	3849.67
				06/09/2020	67.81	65.80	2.01	3849.46
				09/04/2020	66.70	65.85	0.85	3849.60
				12/11/2020	66.16	66.14	0.02	3849.45
				03/16/2021	68.20	65.79	2.41	3849.40
				06/11/2021	68.07	65.78	2.29	3849.43
				09/01/2021	67.94	65.82	2.12	3849.42
				11/29/2021	66.63	66.18	0.45	3849.34
				03/02/2022	69.45	65.65	3.8	3849.31
				06/02/2022	68.72	65.88	2.84	3849.24
				09/13/2022	69.23	65.90	3.33	3849.14
				12/01/2022	67.60	66.25	1.35	3849.12
				03/01/2023	66.95	66.43	0.52	3849.07
				06/05/2023	67.52	66.38	1.14	3849.02
				09/05/2023	67.87	66.35	1.52	3848.99
				12/05/2023	67.77	66.52	1.25	3848.86
MW-18 4"	3912.90	55	80	03/08/2016	64.19	-	-	3848.71
				05/24/2016	63.45	-	-	3849.45
				09/08/2016	64.50	-	-	3848.40
				12/05/2016	64.62	-	-	3848.28
				03/08/2017	64.50	-	-	3848.40
				06/13/2017	64.70	-	-	3848.20
				09/12/2017	63.83	-	-	3849.07
				12/13/2017	64.66	-	-	3848.24
				03/23/2018	64.69	-	-	3848.21
				06/12/2018	64.75	-	-	3848.15
				09/10/2018	65.85	-	-	3847.05
				12/11/2018	64.87	-	-	3848.03
				03/13/2019	64.90	-	-	3848.00
				06/10/2019	64.97	-	-	3847.93
				09/25/2019	65.01	-	-	3847.89
				12/06/2019	66.10	-	-	3846.80
				03/11/2020	65.18	-	-	3847.72
				05/06/2020	65.10	-	-	3847.80
				06/09/2020	66.10	-	-	3846.80
				09/04/2020	65.25	-	-	3847.65
				12/11/2020	66.24	-	-	3846.66
				03/16/2021	65.30	-	-	3847.60
				06/10/2021	65.48	-	-	3847.42
				09/01/2021	65.40	-	-	3847.50
				11/29/2021	65.50	-	-	3847.40
				03/02/2022	65.84	-	-	3847.06
				06/02/2022	65.66	-	-	3847.24
				09/13/2022	65.63	-	-	3847.27
				12/01/2022	65.66	-	-	3847.24
				03/01/2023	65.72	-	-	3847.18
				06/05/2023	65.79	-	-	3847.11
				09/05/2023	65.83	-	-	3847.07
				12/05/2023	65.93	-	-	3846.97

Table 1 - Groundwater Gauging Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Date Sampled (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-19 4"	3913.35	60	80	09/10/2018	65.41	-	-	3847.94
				12/11/2018	65.55	-	-	3847.80
				03/13/2019	65.58	-	-	3847.77
				06/10/2019	65.65	-	-	3847.70
				09/25/2019	65.68	-	-	3847.67
				12/06/2019	65.75	-	-	3847.60
				03/11/2020	65.80	-	-	3847.55
				05/06/2020	65.80	-	-	3847.55
				06/09/2020	65.82	-	-	3847.53
				09/04/2020	65.90	-	-	3847.45
				12/11/2020	65.92	-	-	3847.43
				03/16/2021	64.95	-	-	3848.40
				06/10/2021	66.05	-	-	3847.30
				09/01/2021	66.12	-	-	3847.23
				11/29/2021	66.10	-	-	3847.25
				03/02/2022	66.30	-	-	3847.05
				06/02/2022	66.31	-	-	3847.04
				09/13/2022	66.32	-	-	3847.03
				12/01/2022	66.35	-	-	3847.00
				03/01/2023	66.40	-	-	3846.95
				06/05/2023	66.47	-	-	3846.88
				09/05/2023	66.51	-	-	3846.84
				12/05/2023	66.61	-	-	3846.74
MW-20 4"	3912.13	60	80	09/10/2018	64.31	-	-	3847.82
				12/11/2018	65.45	-	-	3846.68
				03/13/2019	64.48	-	-	3847.65
				06/10/2019	65.57	-	-	3846.56
				09/25/2019	65.60	-	-	3846.53
				12/06/2019	64.66	-	-	3847.47
				03/11/2020	64.69	-	-	3847.44
				05/06/2020	64.68	-	-	3847.45
				06/09/2020	64.71	-	-	3847.42
				09/04/2020	64.76	-	-	3847.37
				12/11/2020	64.82	-	-	3847.31
				03/16/2021	64.85	-	-	3847.28
				06/10/2021	64.94	-	-	3847.19
				09/01/2021	65.00	-	-	3847.13
				11/29/2021	65.00	-	-	3847.13
				03/02/2022	65.10	-	-	3847.03
				06/02/2022	65.13	-	-	3847.00
				09/13/2022	65.22	-	-	3846.91
				12/01/2022	65.25	-	-	3846.88
				03/01/2023	65.30	-	-	3846.83
				06/05/2023	65.37	-	-	3846.76
				09/05/2023	65.42	-	-	3846.71
				12/05/2023	65.52	-	-	3846.61

Specific Gravity: 0.75
Notes:
fmsl = Feet above mean sea level
DR = Well dry
DS = Well destroyed
NG = Well not gauged
NL = Well not located
NSA = No access
OB = Obstruction in well
PA = Well plugged and abandoned

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-1	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.000700 J	<0.00100	<0.000657	<0.000642	0.000700 J
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	0.00442	<0.000367	<0.000657	<0.00063	0.00442
	06/11/2019	<0.000371	<0.000333	<0.000597	<0.000572	<0.000333
	09/26/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/07/2019	0.00424	<0.000367	0.000660	<0.000630	0.00490
	03/12/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/10/2020	0.00236	<0.000367	<0.000657	<0.000630	0.00236
	12/14/2020	0.000820 J	<0.002000	0.00270	0.00303	0.006550
	03/19/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/02/2022	<0.000408	0.000657 J *1	<0.000657	<0.000642 *1	0.000657 J
	03/02/2023	<0.000408 *1	<0.000367	<0.000657	0.00161 J	0.00161 J
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-3	03/08/2016	**0.127**	<0.000238	0.0904	0.0707	-
	05/24/2016	**0.151**	<0.000238	0.129	0.107	-
	09/08/2016	**0.166**	<0.000621	0.132	0.123	-
	12/05/2016	**0.261**	<0.00100	0.217	0.234	-
	03/08/2017	**0.146**	<0.000367	0.143	0.146	0.435
	06/13/2017	**0.159**	0.00296	0.238	0.156	0.556
	09/14/2017	**0.101**	<0.000367	0.178	0.129	0.408
	12/18/2017	**0.0232**	0.000750 J	0.0325	0.0228	0.0792
	03/26/2018	**0.0119**	0.00131 J	0.0241	0.0171	0.0544
	06/12/2018	**0.0108**	<0.000512	0.0266	0.0176	0.0550
	09/11/2018	**0.0132**	<0.000367	0.0317	0.0184	0.0633
	12/12/2018	**0.0341**	<0.000512	0.0725	0.123	0.230
	03/15/2019	**0.0189**	0.00157	0.0822	0.120	0.222
	06/10/2019	**0.0101**	<0.000342	0.0551	0.0419	0.107
	09/26/2019	0.00860	<0.000367	0.0480	0.0380	0.0946
	12/07/2019	0.00508	<0.000367	0.0360	0.0189	0.0600
	03/12/2020	<0.000408	<0.000367	0.0560	0.0454	0.101
	06/11/2020	0.00554 F	<0.000367 F	0.0774 LF	0.110	0.193
	09/08/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/14/2020	0.00300	<0.002000	0.0364	0.0597	0.09914
	03/19/2021	0.00291	0.000481 J		0.00208 J	0.0281
	06/11/2021	0.00163 J	<0.00200	0.0838	0.107	0.193
	09/07/2021	<0.00200	<0.00200	0.0561	0.0718	0.128
	11/30/2021	0.000494 J	<0.00200	0.0339	0.0225	0.0569
	03/03/2022	<0.000408	<0.000367	0.0265	0.00488	0.0314
	06/03/2022	<0.000408	<0.000367	0.0494	0.0641	0.113
	09/13/2022	<0.000408	<0.000367	<0.000657	0.0306	0.0306
	12/05/2022	<0.000408	0.000367 J *1	0.0269	0.0222	0.0494
	03/02/2023	<0.000408 *1	<0.000367	0.0164	0.00823	0.0246
	06/07/2023	<0.00100	<0.00100	0.00373	<0.00100	0.00373
	09/05/2023	<0.00100	<0.00100	0.00740	0.00286	0.0103
	12/06/2023	<0.00100	<0.00100	0.00250	<0.00100	0.00250

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
MW-4	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	0.00140	<0.000512	<0.000616	<0.000270	0.00140
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	<0.000408	<0.000367	0.000980	0.00107	0.00205
	06/10/2019	<0.000372	<0.000335	<0.0006	<0.000575	<0.000335
	09/26/2019	0.00619	<0.000367	<0.000657	<0.000630	0.00619
	12/07/2019	0.000710	<0.000367	<0.000657	<0.000630	0.000710
	03/11/2020	**0.0123**	<0.000367	<0.000657	<0.000630	0.0123
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/08/2020	**0.0132**	<0.000367	0.0497	0.0722	0.135
	12/14/2020	0.00110 J	<0.002000	0.00457	0.00659	0.01226
	03/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	0.00157 J	0.00179 J	0.00336 J
	11/30/2021	<0.0200	<0.0200	<0.0200	<0.0400	<0.0400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/02/2022	<0.000408	<0.000367 *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/02/2023	<0.000408 *1	<0.000367	<0.000657	0.00160 J	0.00160 J
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.000800 J	<0.00100	<0.000657	<0.000642	0.000800 J
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	0.00692	<0.000367	<0.000657	<0.00063	0.00692
	06/11/2019	<0.000387	<0.000348	<0.000623	<0.000597	<0.000348
	09/26/2019	**0.0132**	<0.000367	<0.000657	<0.000630	0.0132
	12/07/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/12/2020	0.00405	<0.000367	<0.000657	<0.000630	0.00405
	06/11/2020	0.00131 JF	<0.000367 F	<0.000657 LF	<0.000630	0.00131 J
	09/10/2020	0.00138 J	<0.000367	<0.000657	<0.000630	0.00138 J
	12/15/2020	0.000650 J	<0.002000	0.00134 J	0.00131 J	0.003300
	03/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.000408	<0.000367 *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/02/2023	<0.000408 *1	<0.000367	<0.000657	0.00161 J	0.00161 J
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.00344	<0.00100	<0.000657	<0.000642	0.00344
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	0.000720 J	<0.000657	<0.000630	0.000720 J
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	0.00396	<0.000367	<0.000657	<0.00063	0.00396

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
MW-7	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.00481	<0.00100	<0.000657	<0.000642	0.00481
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	0.00150	<0.000512	0.00120	<0.000270	0.00270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	0.000630	<0.000367	<0.000657	<0.00063	0.000630
	06/10/2019	**0.0407**	<0.000314	<0.000562	<0.000538	0.0407
	09/26/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/07/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/01/2023	<0.000408 *1	0.000688 J *1	<0.000657	<0.000642	0.000688 J
MW-8	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.00272	<0.00100	<0.000657	<0.000642	0.00272
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	0.000610 J	<0.000657	<0.000630	0.000610 J
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	0.00530	<0.000367	<0.000657	<0.00063	0.00530
	06/11/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	09/26/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/07/2019	**0.0586**	<0.000367	0.00422	<0.000630	0.0628
	03/12/2020	0.00465	<0.000367	<0.000657	<0.000630	0.00465
	06/11/2020	0.000870 JF	<0.000367 F	<0.000657 LF	<0.000630	0.000870 J
	09/10/2020	0.00208	<0.000367	<0.000657	<0.000630	0.00208
	12/15/2020	0.000590 J	<0.002000	0.00116 J	0.00132 J	0.003070
	03/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.000408	0.000429 J *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/01/2023	<0.000408 *1	0.000911 J	<0.000657	<0.000642	0.000911 J
	06/08/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-9	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017	0.00113 J	<0.00100	<0.000657	<0.000642	0.00113 J
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	0.000680 J	<0.000657	<0.000630	0.000680 J
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	0.000930	<0.000367	<0.000657	<0.00063	0.000930
	06/11/2019	<0.000373	<0.000335	<0.0006	<0.000575	<0.000335
	09/26/2019	**0.0105**	<0.000367	<0.000657	<0.000630	0.0105
	12/07/2019	0.000410	<0.000367	<0.000657	<0.000630	0.000410
	03/12/2020	0.00583	<0.000367	<0.000657	<0.000630	0.00583
	09/10/2020	0.00496	<0.000367	<0.000657	<0.000630	0.00496
	12/15/2020	0.000750 J	<0.002000	0.00166 J	0.00163 J	0.004040
	03/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	0.00110 J	0.00110 J
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.000408	0.000424 J *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/01/2023	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/08/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/06/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
MW-10	03/08/2016	**2.62**	<0.0119	0.222	<0.0122	-
	05/24/2016	**2.38**	<0.00238	0.127	0.0325	-
	09/08/2016	**3.16**	<0.0329	0.181	<0.0136	-
	12/05/2016	**3.35**	<0.0200	0.178	0.0420	-
	03/08/2017	**2.69**	0.0620 J	0.303	0.0790 J	3.13
	06/13/2017	0.00417	<0.00100	<0.000657	<0.000642	0.00417
	09/14/2017	**11.5 D**	<0.000367	**0.901 D**	0.0192	12.4
	12/18/2017	**12.1 D**	0.00857	**0.953 D**	0.0257	13.1
	03/26/2018	**5.04**	0.0270 J	0.518	<0.0315	5.59
	06/12/2018	**3.94**	<0.00512	0.422	<0.00270	4.36
	09/11/2018	**6.30 D**	0.000380 J	0.693 D	0.00625	7.00
	12/11/2018	**3.65**	<0.0256	0.420	<0.0135	4.07
	03/14/2019	**4.29**	<0.000367	0.142	<0.00063	4.43
	06/10/2019	**32**	<0.0367	**2.89**	**2.56**	38
	09/26/2019	**4.43**	<0.000367	0.307	<0.000630	4.74
	12/07/2019	**1.12**	<0.000367	0.0564	<0.000630	1.18
	03/11/2020	**3.03 D**	<0.000367	0.161	<0.000630	3.19
	06/11/2020	**2.33 DF**	0.00104 JF	0.0498 LF	0.00203	2.38
MW-11	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	0.000720 J	<0.000367	<0.000657	<0.000630	0.000720 J
	06/13/2017	0.00424	<0.00100	<0.000657	<0.000642	0.00424
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	0.00270	<0.000512	<0.000616	<0.000270	0.00270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	**0.0101**	<0.000367	0.00173	0.00146	0.0133
	06/10/2019	<0.000378	<0.00034	<0.000609	<0.000584	<0.00034
	09/26/2019	**0.0429**	<0.000367	0.00902	<0.000630	0.0519
	12/07/2019	0.000820	0.000440	<0.000657	<0.000630	0.00126
	03/12/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/08/2020	0.00575	<0.000367	0.00384	0.00263	0.0122
	12/15/2020	0.00153 J	<0.002000	0.00251	0.00254	0.006580
	03/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.000408	<0.000367 *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/01/2023	<0.000408	0.000416 J	<0.000657	<0.000642	<0.000657
	06/08/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-12	03/08/2016	**1.88**	<0.0119	<0.0119	<0.0122	-
	05/24/2016	**0.634**	<0.0119	<0.0119	<0.0122	-
	09/08/2016	**0.162**	<0.0329	<0.0404	<0.0136	-
	12/05/2016	**0.0577**	<0.00100	<0.000657	<0.000642	-
	03/08/2017	**0.117**	<0.0184	<0.0329	<0.0315	0.117
	06/13/2017	0.00768	<0.00100	<0.000657	<0.000642	0.00768
	09/14/2017	0.00496	<0.000367	0.00168 J	<0.000630	0.00664
	12/18/2017	**0.0304**	<0.000367	0.00627	0.00146 J	0.0381
	03/26/2018	0.000570 J	0.00103 J	<0.000657	<0.000630	0.00160 J
	06/12/2018	0.00130	<0.000512	<0.000616	0.000700 J	0.00200
	09/11/2018	0.00136 J	<0.000367	<0.000657	<0.000630	0.00136 J
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	0.000950	<0.000367	<0.000657	<0.00063	0.000950
	06/10/2019	<0.00037	<0.000333	<0.000596	<0.000571	<0.000333
	09/26/2019	0.00564	<0.000367	<0.000657	<0.000630	0.00564
	12/07/2019	0.000680	<0.000367	<0.000657	0.000640	0.00132
	03/12/2020	0.00719	0.000750 J	0.00121 J	<0.000630	0.00915
	06/11/2020	0.00101 JF	<0.000367 F	<0.000657 LF	<0.000630	0.00101 J
	09/10/2020	0.00874	0.000510 J	0.00161 J	0.00117 J	0.0120
	12/15/2020	0.00213	<0.002000	0.00236	0.00217	0.006660
	03/18/2021	0.000887 J	0.000745 J	0.00108 J	0.00273 J	0.00544
	06/11/2021	0.000750 J	0.000555 J	<0.00200	<0.00400	0.00131 J
	09/07/2021	0.000614 J	<0.00200	0.000673 J	<0.00400	0.00129 J
	11/30/2021	0.000479 J	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.00816	<0.00734	<0.0131	<0.0128	<0.0131
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/02/2022	<0.00408	<0.00367 *1	<0.00657 *1	<0.00642 *1	<0.00657
	03/01/2023	<0.000408 *1	<0.000367	<0.000657	0.00160 J	0.00160 J
	06/08/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
MW-15	09/11/2018	0.00374	0.00324	0.0468	0.0637	0.117
	12/12/2018	0.00280	<0.000512	0.0474	0.0510	0.101
	03/15/2019	0.00886	<0.000367	0.0254	0.0257	0.0599
	06/10/2019	**0.0122**	<0.000336	0.0954	0.0691	0.177
	09/26/2019	<0.000408	<0.000367	0.0251	0.0161	0.0412
	12/07/2019	0.00162	<0.000367	0.0624	0.0369	0.101
	03/12/2020	<0.000408	<0.000367	0.0265	<0.000630	0.0265
	06/11/2020	0.00205 F	<0.000367 F	0.0235 LF	0.0140	0.0396
	09/11/2020	0.000940 J	<0.000367	0.00715	0.00268	0.0108
	12/15/2020	0.000810 J	<0.002000	0.00257	0.00121 J	0.004590
	03/19/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	0.00263	<0.00400	0.00263 J
	09/07/2021	<0.00200	<0.00200	0.00679	0.000719 J	0.00751
	11/29/2021	<0.00200	<0.00200	0.00373	<0.00400	0.00373 J
	03/03/2022	<0.000408	<0.000367	0.00449	<0.000642	0.00449
	06/03/2022	<0.000408	<0.000367	0.00123 J	0.000946 J	0.00218 J
	09/13/2022	<0.000408	<0.000367	<0.000657	0.00122 J	0.00122 J
	12/05/2022	<0.000408	<0.000367 *1	0.00224	<0.000642 *1	0.00224 J
	03/02/2023	<0.000408	<0.000367 *-	0.00352	0.00181 J	0.00533
	06/07/2023	<0.00100	<0.00100	0.00148	<0.00100	0.00148
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/06/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.00100
MW-16	09/11/2018	**0.0101**	0.00839	0.0242	0.0314	0.0741
	12/12/2018	0.00230	0.00120	0.00890	0.0150	0.0274
	03/15/2019	0.00408	0.00222	0.00551	0.0114	0.0232
	06/10/2019	<0.000377	<0.000339	<0.000607	<0.000582	<0.000339
	09/26/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/07/2019	0.000470	<0.000367	0.00598	0.00577	0.0122
	03/12/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/11/2020	0.00140 J	0.000380 J	0.00354	0.00299	0.00831
	12/15/2020	0.000590 J	<0.002000	0.00185 J	0.00176 J	0.004200
	03/19/2021	<0.00200	<0.00200	0.00682	0.00928	0.0161
	06/11/2021	<0.00200	<0.00200	0.00192 J	0.00229 J	0.00421
	09/07/2021	<0.00200	<0.00200	0.00151 J	<0.00400	0.00151 J
	11/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.000408	<0.000367 *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/02/2023	<0.000408 *1	<0.000367	<0.000657	0.00159 J	0.00159 J
	06/08/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/06/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-18	03/08/2016	**0.267**	<0.000238	0.000900 J	0.000500 J	-
	05/24/2016	**0.0108**	<0.000238	0.000800 J	0.000800 J	-
	09/08/2016	**0.0715**	<0.000621	0.00530	0.00610	-
	12/05/2016	**0.264**	<0.00100	<0.000657	<0.000642	-
	03/08/2017	**0.513**	<0.0184	<0.0329	<0.0315	0.513
	06/13/2017	**5.45**	<0.0250	<0.0164	<0.0161	5.45
	09/14/2017	**0.582 D**	<0.000367	0.00167 J	0.00118 J	0.585
	12/18/2017	**6.82 D**	<0.000367	0.00507	0.0241	6.85
	03/26/2018	**3.50**	0.00760 J	<0.0131	0.0132 J	3.52
	06/12/2018	**3.09**	<0.0256	<0.0308	<0.0135	3.09
	09/11/2018	**0.0801**	<0.000367	<0.000657	0.00463	0.0847
	12/11/2018	**0.0310**	<0.000512	<0.000616	<0.000270	0.0310
	03/14/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	06/10/2019	<0.00038	<0.000342	<0.000612	<0.000586	<0.000342
	09/25/2019	**0.395**	0.0145	0.00727	<0.000630	0.417
	12/07/2019	**0.122**	0.00273	0.00199	0.0109	0.138
	03/11/2020	**0.217**	0.0239	0.0105	0.00489	0.256
	06/11/2020	**0.241 F**	0.0138 F	0.00619 LF	0.0366	0.298
	09/08/2020	**0.135**	0.0242	0.0119	0.0517	0.223
	12/14/2020	**0.0479**	0.0196	0.00646	0.00537	0.07933
	03/18/2021	0.00968 J	0.0236 J	<0.0400	<0.0800	0.0333 J
	06/11/2021	<0.00200	0.0175	0.00494	<0.00400	0.0224
	09/07/2021	0.000698 J	0.00218	0.00494	<0.00400	0.00782
	11/30/2021	0.000702 J	0.00527	0.00141 J	0.0448	0.0522
	03/03/2022	<0.000408	0.00477	<0.000657	<0.000642	0.00477
	06/02/2022	0.00223	<0.000367	<0.000657	0.00104 J	0.00327 J
	09/14/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/05/2022	<0.00408	<0.00367 *1	<0.00657 *1	<0.00642 *1	<0.00657
	03/02/2023	<0.000408 *1	<0.000367	<0.000657	0.00159 J	0.00159 J
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	0.00107	<0.00100	<0.00100	<0.00100	0.00107

Table 2 - Groundwater Analytical Data - Historical
Lovington Deep 6"
Lea County, NM
SRS#: 2002-10312

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
MW-19	09/11/2018	**2.41 D**	<0.000367	<0.000657	<0.000630	2.41
	12/11/2018	**6.07**	<0.0102	<0.0123	<0.00540	6.07
	03/14/2019	**2.11**	<0.000367	<0.000657	<0.00063	2.11
	06/10/2019	**0.302**	<0.000367	<0.000657	<0.00063	0.302
	09/25/2019	**3.99**	<0.000367	0.00585	<0.000630	4.00
	12/07/2019	0.00180	0.000720	0.00206	0.00447	0.00905
	03/11/2020	**3.96 D**	0.00557	0.00777	0.00131 J	3.97
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/08/2020	**1.21**	<0.00184	<0.00329	<0.00315	1.21
	12/14/2020	**0.336 X**	0.00208	0.00131 J	0.00116 J	0.3406
	03/18/2021	**0.0235**	<0.00200	<0.00200	<0.00400	0.0235
	06/11/2021	**0.0958**	<0.00200	<0.00200	0.00114 J	0.0969
	09/07/2021	**0.110**	0.00112 J	<0.00200	<0.00400	0.111
	11/30/2021	0.00575	0.00039 J	<0.00200	<0.00400	0.00614
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/02/2022	**0.0268**	<0.000367	0.00322	0.0223	0.0523
	09/14/2022	0.000773 J	<0.000367	<0.000657	<0.000642	0.000773 J
	12/02/2022	0.00110 J	0.000628 J *1	<0.000657 *1	<0.000642 *1	0.00173 J
	03/01/2023	<0.000408	<0.000367	0.00149 J	0.00273 J	0.00422
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000710
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000600
	12/05/2023	<0.00100	<0.00100	<0.00100	0.00127	0.00127
MW-20	09/11/2018	0.00373	<0.000367	<0.000657	<0.000630	0.00373
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/14/2019	0.00741	<0.000367	<0.000657	<0.00063	0.00741
	06/10/2019	**0.0373**	<0.000367	<0.000657	<0.00063	0.0373
	09/25/2019	**0.0606**	<0.000367	<0.000657	<0.000630	0.0606
	12/07/2019	**2.24**	0.00218	0.00376	0.00340	2.25
	03/11/2020	**0.0227**	<0.000367	<0.000657	<0.000630	0.0227
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.000367
	09/08/2020	<0.000408 XF	<0.000367 XF	<0.000657 XF	<0.000630	<0.000367
	12/14/2020	0.00320	<0.002000	<0.002000	<0.002000	0.003200
	03/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	0.000427 J	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/03/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/02/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/13/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/02/2022	<0.000408	<0.000367 *1	<0.000657 *1	<0.000642 *1	<0.000657
	03/01/2023	<0.000408	0.000372 J	<0.000657	<0.000642	<0.000657
	06/07/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/05/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Notes:
Lab Flags noted next to values. See lab report for description.

Analyte concentration exceeds the standard for:
NMWQCC - Groundwater

APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: David Adkins
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Generated 3/15/2023 3:33:12 PM

JOB DESCRIPTION

Lovington Deep
SDG NUMBER Lea County

JOB NUMBER

890-4214-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

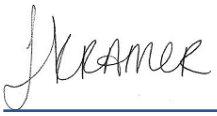
my EOL

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
3/15/2023 3:33:12 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Talon/LPE
Project/Site: Lovington Deep

Laboratory Job ID: 890-4214-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Job ID: 890-4214-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4214-1

Receipt
The samples were received on 3/1/2023 3:04 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA
Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-48323 recovered outside control limits for the following analytes: Benzene and Toluene.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-48623 were outside control limits for one or more analytes, see QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Client Sample ID: MW-7

Lab Sample ID: 890-4214-1
Matrix: Water
Date Collected: 03/01/23 12:14
Date Received: 03/01/23 15:04

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/11/23 19:35	1
Toluene	**0.000688**	**J *1**	0.00200	0.000367	mg/L			03/11/23 19:35	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/11/23 19:35	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/11/23 19:35	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/11/23 19:35	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/11/23 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*03/11/23 19:35*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*		*03/11/23 19:35*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.000688**	**J**	0.00400	0.000657	mg/L			03/13/23 18:25	1

Client Sample ID: MW-8

Lab Sample ID: 890-4214-2
Matrix: Water
Date Collected: 03/01/23 12:03
Date Received: 03/01/23 15:04

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/11/23 19:55	1
Toluene	**0.000911**	**J *1**	0.00200	0.000367	mg/L			03/11/23 19:55	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/11/23 19:55	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/11/23 19:55	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/11/23 19:55	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/11/23 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*		*03/11/23 19:55*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*03/11/23 19:55*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.000911**	**J**	0.00400	0.000657	mg/L			03/13/23 18:25	1

Client Sample ID: MW-20

Lab Sample ID: 890-4214-3
Matrix: Water
Date Collected: 03/01/23 12:30
Date Received: 03/01/23 15:04

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 06:11	1
Toluene	**0.000372**	**J**	0.00200	0.000367	mg/L			03/15/23 06:11	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 06:11	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 06:11	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 06:11	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 06:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*03/15/23 06:11*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*		*03/15/23 06:11*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Client Sample ID: MW-20
Date Collected: 03/01/23 12:30
Date Received: 03/01/23 15:04

Lab Sample ID: 890-4214-3
Matrix: Water

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:25	1

Client Sample ID: MW-11
Date Collected: 03/01/23 12:32
Date Received: 03/01/23 15:04

Lab Sample ID: 890-4214-4
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 06:32	1
Toluene	**0.000416**	**J**	0.00200	0.000367	mg/L			03/15/23 06:32	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 06:32	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 06:32	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 06:32	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 06:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*03/15/23 06:32*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*		*03/15/23 06:32*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:25	1

Client Sample ID: MW-12
Date Collected: 03/01/23 13:02
Date Received: 03/01/23 15:04

Lab Sample ID: 890-4214-5
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 12:42	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 12:42	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 12:42	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 12:42	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 12:42	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*03/15/23 12:42*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*		*03/15/23 12:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/15/23 16:25	1

Client Sample ID: MW-9
Date Collected: 03/01/23 13:20
Date Received: 03/01/23 15:04

Lab Sample ID: 890-4214-6
Matrix: Water

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 06:52	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 06:52	1

Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Client Sample ID: MW-9

Lab Sample ID: 890-4214-6
Date Collected: 03/01/23 13:20
Matrix: Water
Date Received: 03/01/23 15:04

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 06:52	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 06:52	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 06:52	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 06:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*03/15/23 06:52*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*		*03/15/23 06:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/15/23 16:25	1

Client Sample ID: MW-19

Lab Sample ID: 890-4214-7
Date Collected: 03/01/23 13:24
Matrix: Water
Date Received: 03/01/23 15:04

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 07:12	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 07:12	1
Ethylbenzene	**0.00149**	**J**	0.00200	0.000657	mg/L			03/15/23 07:12	1
m-Xylene & p-Xylene	**0.00273**	**J**	0.00400	0.000629	mg/L			03/15/23 07:12	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			03/15/23 07:12	1
Xylenes, Total	**0.00273**	**J**	0.00400	0.000642	mg/L			03/15/23 07:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*		*03/15/23 07:12*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*03/15/23 07:12*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00422**		0.00400	0.000657	mg/L			03/15/23 16:25	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-25343-A-1 MS	Matrix Spike	104	107
880-25343-A-1 MSD	Matrix Spike Duplicate	106	107
880-25343-A-21 MS	Matrix Spike	141 S1+	139 S1+
880-25343-A-21 MSD	Matrix Spike Duplicate	141 S1+	135 S1+
880-25772-A-1 MS	Matrix Spike	120	113
880-25772-A-1 MSD	Matrix Spike Duplicate	115	112
890-4214-1	MW-7	118	107
890-4214-2	MW-8	115	105
890-4214-3	MW-20	89	80
890-4214-4	MW-11	83	80
890-4214-5	MW-12	112	86
890-4214-6	MW-9	82	81
890-4214-7	MW-19	116	89
LCS 880-48323/65	Lab Control Sample	116	111
LCS 880-48575/34	Lab Control Sample	97	104
LCS 880-48623/34	Lab Control Sample	141 S1+	97
LCSD 880-48323/66	Lab Control Sample Dup	109	114
LCSD 880-48575/35	Lab Control Sample Dup	107	112
LCSD 880-48623/35	Lab Control Sample Dup	129	98
MB 880-48205/5-A	Method Blank	110	102
MB 880-48323/70	Method Blank	105	98
MB 880-48335/5-A	Method Blank	61 S1-	89
MB 880-48336/5-A	Method Blank	90	84
MB 880-48575/39	Method Blank	65 S1-	89
MB 880-48623/39	Method Blank	85	82

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48205/5-A
Matrix: Water
Analysis Batch: 48323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48205

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/09/23 11:30	03/11/23 04:45	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/09/23 11:30	03/11/23 04:45	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/09/23 11:30	03/11/23 04:45	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/09/23 11:30	03/11/23 04:45	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/09/23 11:30	03/11/23 04:45	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/09/23 11:30	03/11/23 04:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/09/23 11:30*	*03/11/23 04:45*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/09/23 11:30*	*03/11/23 04:45*	*1*

Lab Sample ID: MB 880-48323/70
Matrix: Water
Analysis Batch: 48323

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/11/23 16:22	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/11/23 16:22	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/11/23 16:22	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/11/23 16:22	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/11/23 16:22	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/11/23 16:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/11/23 16:22*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*03/11/23 16:22*	*1*

Lab Sample ID: LCS 880-48323/65
Matrix: Water
Analysis Batch: 48323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08252		mg/L		83	70 - 130
Toluene	0.100	0.07675		mg/L		77	70 - 130
Ethylbenzene	0.100	0.07977		mg/L		80	70 - 130
m-Xylene & p-Xylene	0.200	0.1690		mg/L		85	70 - 130
o-Xylene	0.100	0.08464		mg/L		85	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-48323/66
Matrix: Water
Analysis Batch: 48323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1042	*1	mg/L		104	70 - 130	23	20

QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-48323/66
Matrix: Water
Analysis Batch: 48323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.09617	*1	mg/L		96	70 - 130	22	20
Ethylbenzene			0.100	0.09661		mg/L		97	70 - 130	19	20
m-Xylene & p-Xylene			0.200	0.2038		mg/L		102	70 - 130	19	20
o-Xylene			0.100	0.1009		mg/L		101	70 - 130	18	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 880-25772-A-1 MS
Matrix: Water
Analysis Batch: 48323

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000408	U *1	0.100	0.1042		mg/L		104	70 - 130
Toluene	0.00108	J *1	0.100	0.09741		mg/L		96	70 - 130
Ethylbenzene	<0.000657	U	0.100	0.09852		mg/L		99	70 - 130
m-Xylene & p-Xylene	0.000901	J	0.200	0.2078		mg/L		103	70 - 130
o-Xylene	<0.000642	U	0.100	0.1025		mg/L		102	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-25772-A-1 MSD
Matrix: Water
Analysis Batch: 48323

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U *1	0.100	0.09392		mg/L		94	70 - 130	10	25
Toluene	0.00108	J *1	0.100	0.08665		mg/L		86	70 - 130	12	25
Ethylbenzene	<0.000657	U	0.100	0.08903		mg/L		89	70 - 130	10	25
m-Xylene & p-Xylene	0.000901	J	0.200	0.1880		mg/L		94	70 - 130	10	25
o-Xylene	<0.000642	U	0.100	0.09395		mg/L		94	70 - 130	9	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-48335/5-A
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/10/23 14:49	03/14/23 15:26	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/10/23 14:49	03/14/23 15:26	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/10/23 14:49	03/14/23 15:26	1
m-Xylene & p-Xylene	0.001585	J	0.00400	0.000629	mg/L		03/10/23 14:49	03/14/23 15:26	1

QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 880-48335/5-A
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/10/23 14:49	03/14/23 15:26	1
Xylenes, Total	0.001585	J	0.00400	0.000642	mg/L		03/10/23 14:49	03/14/23 15:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*03/10/23 14:49*	*03/14/23 15:26*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/10/23 14:49*	*03/14/23 15:26*	*1*

Lab Sample ID: MB 880-48336/5-A
Matrix: Water
Analysis Batch: 48623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48336

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/10/23 14:51	03/14/23 18:57	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/10/23 14:51	03/14/23 18:57	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/10/23 14:51	03/14/23 18:57	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/10/23 14:51	03/14/23 18:57	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/10/23 14:51	03/14/23 18:57	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/10/23 14:51	03/14/23 18:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*	*03/10/23 14:51*	*03/14/23 18:57*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*03/10/23 14:51*	*03/14/23 18:57*	*1*

Lab Sample ID: MB 880-48575/39
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 05:03	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:03	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:03	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 05:03	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:03	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 05:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*		*03/15/23 05:03*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*03/15/23 05:03*	*1*

Lab Sample ID: LCS 880-48575/34
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08598		mg/L		86	70 - 130
Toluene	0.100	0.07419		mg/L		74	70 - 130
Ethylbenzene	0.100	0.08449		mg/L		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1756		mg/L		88	70 - 130

QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-48575/34
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene			0.100	0.08688		mg/L		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-48575/35
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1079	*1	mg/L		108	70 - 130	23	20
Toluene			0.100	0.08788		mg/L		88	70 - 130	17	20
Ethylbenzene			0.100	0.09453		mg/L		95	70 - 130	11	20
m-Xylene & p-Xylene			0.200	0.1962		mg/L		98	70 - 130	11	20
o-Xylene			0.100	0.09739		mg/L		97	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-25343-A-1 MS
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.000408	U *1	0.100	0.09977		mg/L		100	70 - 130		
Toluene	<0.000367	U	0.100	0.08759		mg/L		88	70 - 130		
Ethylbenzene	<0.000657	U	0.100	0.09541		mg/L		95	70 - 130		
m-Xylene & p-Xylene	0.00179	J	0.200	0.1996		mg/L		99	70 - 130		
o-Xylene	<0.000642	U	0.100	0.09877		mg/L		99	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 880-25343-A-1 MSD
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U *1	0.100	0.08705		mg/L		87	70 - 130	14	25
Toluene	<0.000367	U	0.100	0.07918		mg/L		79	70 - 130	10	25
Ethylbenzene	<0.000657	U	0.100	0.08624		mg/L		86	70 - 130	10	25
m-Xylene & p-Xylene	0.00179	J	0.200	0.1786		mg/L		88	70 - 130	11	25
o-Xylene	<0.000642	U	0.100	0.08812		mg/L		88	70 - 130	11	25

QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-25343-A-1 MSD
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: MB 880-48623/39
Matrix: Water
Analysis Batch: 48623

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 05:29	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:29	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:29	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 05:29	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:29	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 05:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130		03/15/23 05:29	1
1,4-Difluorobenzene (Surr)	82		70 - 130		03/15/23 05:29	1

Lab Sample ID: LCS 880-48623/34
Matrix: Water
Analysis Batch: 48623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09500		mg/L		95	70 - 130		
Toluene			0.100	0.09421		mg/L		94	70 - 130		
Ethylbenzene			0.100	0.1143		mg/L		114	70 - 130		
m-Xylene & p-Xylene			0.200	0.2590		mg/L		129	70 - 130		
o-Xylene			0.100	0.1308	*+	mg/L		131	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: LCSD 880-48623/35
Matrix: Water
Analysis Batch: 48623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1047		mg/L		105	70 - 130	10	20
Toluene			0.100	0.09768		mg/L		98	70 - 130	4	20
Ethylbenzene			0.100	0.1134		mg/L		113	70 - 130	1	20
m-Xylene & p-Xylene			0.200	0.2494		mg/L		125	70 - 130	4	20
o-Xylene			0.100	0.1250		mg/L		125	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	129		70 - 130

QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-48623/35
Matrix: Water
Analysis Batch: 48623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: 880-25343-A-21 MS
Matrix: Water
Analysis Batch: 48623

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.00355	F1	0.100	0.1632	F1	mg/L		160	70 - 130
Toluene	<0.000367	U	0.100	0.1041		mg/L		104	70 - 130
Ethylbenzene	<0.000657	U	0.100	0.1234		mg/L		123	70 - 130
m-Xylene & p-Xylene	<0.000629	U F1	0.200	0.2782	F1	mg/L		139	70 - 130
o-Xylene	0.000901	J F1 *+	0.100	0.1396	F1	mg/L		139	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*139*	*S1+*	*70 - 130*

Lab Sample ID: 880-25343-A-21 MSD
Matrix: Water
Analysis Batch: 48623

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.00355	F1	0.100	0.1588	F1	mg/L		155	70 - 130	3	25
Toluene	<0.000367	U	0.100	0.1049		mg/L		105	70 - 130	1	25
Ethylbenzene	<0.000657	U	0.100	0.1249		mg/L		125	70 - 130	1	25
m-Xylene & p-Xylene	<0.000629	U F1	0.200	0.2845	F1	mg/L		142	70 - 130	2	25
o-Xylene	0.000901	J F1 *+	0.100	0.1441	F1	mg/L		143	70 - 130	3	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*135*	*S1+*	*70 - 130*

QC Association Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

GC VOA

Prep Batch: 48205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48205/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 48323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4214-1	MW-7	Total/NA	Water	8021B	
890-4214-2	MW-8	Total/NA	Water	8021B	
MB 880-48205/5-A	Method Blank	Total/NA	Water	8021B	48205
MB 880-48323/70	Method Blank	Total/NA	Water	8021B	
LCS 880-48323/65	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-48323/66	Lab Control Sample Dup	Total/NA	Water	8021B	
880-25772-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
880-25772-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Prep Batch: 48335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48335/5-A	Method Blank	Total/NA	Water	5035	

Prep Batch: 48336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48336/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 48557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4214-1	MW-7	Total/NA	Water	Total BTEX	
890-4214-2	MW-8	Total/NA	Water	Total BTEX	
890-4214-3	MW-20	Total/NA	Water	Total BTEX	
890-4214-4	MW-11	Total/NA	Water	Total BTEX	
890-4214-5	MW-12	Total/NA	Water	Total BTEX	
890-4214-6	MW-9	Total/NA	Water	Total BTEX	
890-4214-7	MW-19	Total/NA	Water	Total BTEX	

Analysis Batch: 48575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4214-5	MW-12	Total/NA	Water	8021B	
MB 880-48335/5-A	Method Blank	Total/NA	Water	8021B	48335
MB 880-48575/39	Method Blank	Total/NA	Water	8021B	
LCS 880-48575/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-48575/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-25343-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
880-25343-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 48623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4214-3	MW-20	Total/NA	Water	8021B	
890-4214-4	MW-11	Total/NA	Water	8021B	
890-4214-6	MW-9	Total/NA	Water	8021B	
890-4214-7	MW-19	Total/NA	Water	8021B	
MB 880-48336/5-A	Method Blank	Total/NA	Water	8021B	48336
MB 880-48623/39	Method Blank	Total/NA	Water	8021B	
LCS 880-48623/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-48623/35	Lab Control Sample Dup	Total/NA	Water	8021B	

QC Association Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

GC VOA (Continued)

Analysis Batch: 48623 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25343-A-21 MS	Matrix Spike	Total/NA	Water	8021B	
880-25343-A-21 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Client Sample ID: MW-7
Date Collected: 03/01/23 12:14
Date Received: 03/01/23 15:04

Lab Sample ID: 890-4214-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48323	03/11/23 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48557	03/13/23 18:25	SM	EET MID

Client Sample ID: MW-8
Date Collected: 03/01/23 12:03
Date Received: 03/01/23 15:04

Lab Sample ID: 890-4214-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48323	03/11/23 19:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48557	03/13/23 18:25	SM	EET MID

Client Sample ID: MW-20
Date Collected: 03/01/23 12:30
Date Received: 03/01/23 15:04

Lab Sample ID: 890-4214-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 06:11	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48557	03/15/23 16:25	SM	EET MID

Client Sample ID: MW-11
Date Collected: 03/01/23 12:32
Date Received: 03/01/23 15:04

Lab Sample ID: 890-4214-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 06:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48557	03/15/23 16:25	SM	EET MID

Client Sample ID: MW-12
Date Collected: 03/01/23 13:02
Date Received: 03/01/23 15:04

Lab Sample ID: 890-4214-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 12:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48557	03/15/23 16:25	SM	EET MID

Client Sample ID: MW-9
Date Collected: 03/01/23 13:20
Date Received: 03/01/23 15:04

Lab Sample ID: 890-4214-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 06:52	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48557	03/15/23 16:25	SM	EET MID

Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Client Sample ID: MW-19

Date Collected: 03/01/23 13:24
Date Received: 03/01/23 15:04

Lab Sample ID: 890-4214-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48623	03/15/23 07:12	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			48557	03/15/23 16:25	SM	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Method Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
5030B	Purge and Trap	SW846	EET MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4214-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4214-1	MW-7	Water	03/01/23 12:14	03/01/23 15:04
890-4214-2	MW-8	Water	03/01/23 12:03	03/01/23 15:04
890-4214-3	MW-20	Water	03/01/23 12:30	03/01/23 15:04
890-4214-4	MW-11	Water	03/01/23 12:32	03/01/23 15:04
890-4214-5	MW-12	Water	03/01/23 13:02	03/01/23 15:04
890-4214-6	MW-9	Water	03/01/23 13:20	03/01/23 15:04
890-4214-7	MW-19	Water	03/01/23 13:24	03/01/23 15:04

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	David Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	Attn: Camille Bryant
Address:	408 Texas St.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2002-10312
Phone:	575-441-4835	Email:	dadkins@talonlpe.com, mgomez@talonlpe.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Lovington Deep	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	Lea, County	Due Date:	
Sampler's Name:	M. Gomez, N. Rose	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2002-10312		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IAM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.8
Total Containers:		Corrected Temperature:	5.6

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX 8021B
MW-7	GW	3/1/23	12:14	N/A		3	X
MW-8			12:03				
MW-20			12:30				
MW-11			12:32				
MW-12			1:02				
MW-9			1:20				
MW-19			1:24				

890-4214 Chain of Custody

Sample Comments

Email Analyticals to:
CJBryant@paalp.com
Maochoa@paalp.com

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3-1-23 1504			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4214-1
SDG Number: Lea County

Login Number: 4214
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4214-1
SDG Number: Lea County

Login Number: 4214
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 03/03/23 01:07 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: David Adkins
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Generated 3/16/2023 2:53:40 PM

JOB DESCRIPTION

Lovington Deep
SDG NUMBER Lea County

JOB NUMBER

890-4226-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

Eurofins Carlsbad

Job Notes

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization

Generated
3/16/2023 2:53:40 PM

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Talon/LPE
Project/Site: Lovington Deep

Laboratory Job ID: 890-4226-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Job ID: 890-4226-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4226-1

Receipt
The samples were received on 3/2/2023 1:03 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-48575 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-48575/70). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Client Sample ID: MW-1

Lab Sample ID: 890-4226-8
Matrix: Water
Date Collected: 03/02/23 09:40
Date Received: 03/02/23 13:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 13:08	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 13:08	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 13:08	1
m-Xylene & p-Xylene	**0.00161**	**J**	0.00400	0.000629	mg/L			03/15/23 13:08	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 13:08	1
Xylenes, Total	**0.00161**	**J**	0.00400	0.000642	mg/L			03/15/23 13:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/15/23 13:08*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*		*03/15/23 13:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00161**	**J**	0.00400	0.000657	mg/L			03/16/23 15:29	1

Client Sample ID: MW-18

Lab Sample ID: 890-4226-9
Matrix: Water
Date Collected: 03/02/23 10:20
Date Received: 03/02/23 13:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 13:34	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 13:34	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 13:34	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 13:34	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 13:34	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*03/15/23 13:34*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*03/15/23 13:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/16/23 15:29	1

Client Sample ID: MW-16

Lab Sample ID: 890-4226-10
Matrix: Water
Date Collected: 03/02/23 10:35
Date Received: 03/02/23 13:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 14:00	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 14:00	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 14:00	1
m-Xylene & p-Xylene	**0.00159**	**J**	0.00400	0.000629	mg/L			03/15/23 14:00	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 14:00	1
Xylenes, Total	**0.00159**	**J**	0.00400	0.000642	mg/L			03/15/23 14:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*03/15/23 14:00*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*		*03/15/23 14:00*	*1*

Eurofins Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Client Sample ID: MW-16

Lab Sample ID: 890-4226-10
Date Collected: 03/02/23 10:35
Matrix: Water
Date Received: 03/02/23 13:03

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00159**	**J**	0.00400	0.000657	mg/L			03/16/23 15:29	1

Client Sample ID: MW-3

Lab Sample ID: 890-4226-11
Date Collected: 03/02/23 10:50
Matrix: Water
Date Received: 03/02/23 13:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 14:26	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 14:26	1
Ethylbenzene	**0.0164**		0.00200	0.000657	mg/L			03/15/23 14:26	1
m-Xylene & p-Xylene	**0.00823**		0.00400	0.000629	mg/L			03/15/23 14:26	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 14:26	1
Xylenes, Total	**0.00823**		0.00400	0.000642	mg/L			03/15/23 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/15/23 14:26*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*		*03/15/23 14:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.0246**		0.00400	0.000657	mg/L			03/16/23 15:29	1

Client Sample ID: MW-4

Lab Sample ID: 890-4226-12
Date Collected: 03/02/23 11:20
Matrix: Water
Date Received: 03/02/23 13:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 14:52	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 14:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 14:52	1
m-Xylene & p-Xylene	**0.00160**	**J**	0.00400	0.000629	mg/L			03/15/23 14:52	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 14:52	1
Xylenes, Total	**0.00160**	**J**	0.00400	0.000642	mg/L			03/15/23 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*03/15/23 14:52*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*		*03/15/23 14:52*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00160**	**J**	0.00400	0.000657	mg/L			03/16/23 15:29	1

Client Sample ID: MW-5

Lab Sample ID: 890-4226-13
Date Collected: 03/02/23 11:40
Matrix: Water
Date Received: 03/02/23 13:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U *1	0.00200	0.000408	mg/L			03/15/23 15:19	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 15:19	1

Client Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Client Sample ID: MW-5

Lab Sample ID: 890-4226-13
Date Collected: 03/02/23 11:40
Matrix: Water
Date Received: 03/02/23 13:03

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 15:19	1
m-Xylene & p-Xylene	**0.00161**	**J**	0.00400	0.000629	mg/L			03/15/23 15:19	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 15:19	1
Xylenes, Total	**0.00161**	**J**	0.00400	0.000642	mg/L			03/15/23 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/15/23 15:19*	*1*
1,4-Difluorobenzene (Surr)	*7*	*S1-*	*70 - 130*		*03/15/23 15:19*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00161**	**J**	0.00400	0.000657	mg/L			03/16/23 15:29	1

Client Sample ID: MW-15

Lab Sample ID: 890-4226-14
Date Collected: 03/02/23 11:45
Matrix: Water
Date Received: 03/02/23 13:03

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 20:03	1
Toluene	<0.000367	U *-	0.00200	0.000367	mg/L			03/15/23 20:03	1
Ethylbenzene	**0.00352**		0.00200	0.000657	mg/L			03/15/23 20:03	1
m-Xylene & p-Xylene	**0.00181**	**J**	0.00400	0.000629	mg/L			03/15/23 20:03	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 20:03	1
Xylenes, Total	**0.00181**	**J**	0.00400	0.000642	mg/L			03/15/23 20:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/15/23 20:03*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*		*03/15/23 20:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00533**		0.00400	0.000657	mg/L			03/16/23 15:42	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-4226-8	MW-1	102	96										
890-4226-9	MW-18	103	89										
890-4226-10	MW-16	111	83										
890-4226-11	MW-3	107	85										
890-4226-12	MW-4	96	77										
890-4226-13	MW-5	108	7 S1-										
890-4226-14	MW-15	102	80										
890-4226-14 MS	MW-15	106	101										
890-4226-14 MSD	MW-15	107	113										
LCS 880-48575/34	Lab Control Sample	97	104										
LCS 880-48575/65	Lab Control Sample	112	105										
LCSD 880-48575/35	Lab Control Sample Dup	107	112										
LCSD 880-48575/66	Lab Control Sample Dup	121	86										
MB 880-48335/5-A	Method Blank	61 S1-	89										
MB 880-48575/39	Method Blank	65 S1-	89										
MB 880-48575/70	Method Blank	65 S1-	86										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48335/5-A
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48335

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/10/23 14:49	03/14/23 15:26	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/10/23 14:49	03/14/23 15:26	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/10/23 14:49	03/14/23 15:26	1
m-Xylene & p-Xylene	0.001585	J	0.00400	0.000629	mg/L		03/10/23 14:49	03/14/23 15:26	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/10/23 14:49	03/14/23 15:26	1
Xylenes, Total	0.001585	J	0.00400	0.000642	mg/L		03/10/23 14:49	03/14/23 15:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*61*	*S1-*	*70 - 130*	*03/10/23 14:49*	*03/14/23 15:26*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/10/23 14:49*	*03/14/23 15:26*	*1*

Lab Sample ID: MB 880-48575/39
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 05:03	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 05:03	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 05:03	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 05:03	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 05:03	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 05:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*		*03/15/23 05:03*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*		*03/15/23 05:03*	*1*

Lab Sample ID: MB 880-48575/70
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/15/23 19:37	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/15/23 19:37	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/15/23 19:37	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/15/23 19:37	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/15/23 19:37	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/15/23 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*65*	*S1-*	*70 - 130*		*03/15/23 19:37*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*		*03/15/23 19:37*	*1*

QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-48575/34
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.08598		mg/L		86	70 - 130		
Toluene			0.100	0.07419		mg/L		74	70 - 130		
Ethylbenzene			0.100	0.08449		mg/L		84	70 - 130		
m-Xylene & p-Xylene			0.200	0.1756		mg/L		88	70 - 130		
o-Xylene			0.100	0.08688		mg/L		87	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCS 880-48575/65
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.07557		mg/L		76	70 - 130		
Toluene			0.100	0.06835	*-	mg/L		68	70 - 130		
Ethylbenzene			0.100	0.07543		mg/L		75	70 - 130		
m-Xylene & p-Xylene			0.200	0.1592		mg/L		80	70 - 130		
o-Xylene			0.100	0.07871		mg/L		79	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-48575/35
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1079	*1	mg/L		108	70 - 130	23	20
Toluene			0.100	0.08788		mg/L		88	70 - 130	17	20
Ethylbenzene			0.100	0.09453		mg/L		95	70 - 130	11	20
m-Xylene & p-Xylene			0.200	0.1962		mg/L		98	70 - 130	11	20
o-Xylene			0.100	0.09739		mg/L		97	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-48575/66
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.07670		mg/L		77	70 - 130	1	20
Toluene			0.100	0.07333		mg/L		73	70 - 130	7	20
Ethylbenzene			0.100	0.08013		mg/L		80	70 - 130	6	20

QC Sample Results

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-48575/66
Matrix: Water
Analysis Batch: 48575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
m-Xylene & p-Xylene			0.200	0.1682		mg/L		84	70 - 130	5	20
o-Xylene			0.100	0.08246		mg/L		82	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*

Lab Sample ID: 890-4226-14 MS
Matrix: Water
Analysis Batch: 48575

Client Sample ID: MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000408	U	0.100	0.09496		mg/L		95	70 - 130
Toluene	<0.000367	U *-	0.100	0.08686		mg/L		87	70 - 130
Ethylbenzene	0.00352		0.100	0.09488		mg/L		91	70 - 130
m-Xylene & p-Xylene	0.00181	J	0.200	0.1934		mg/L		96	70 - 130
o-Xylene	<0.000642	U	0.100	0.09375		mg/L		94	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: 890-4226-14 MSD
Matrix: Water
Analysis Batch: 48575

Client Sample ID: MW-15
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U	0.100	0.1063		mg/L		106	70 - 130	11	25
Toluene	<0.000367	U *-	0.100	0.08873		mg/L		89	70 - 130	2	25
Ethylbenzene	0.00352		0.100	0.09845		mg/L		95	70 - 130	4	25
m-Xylene & p-Xylene	0.00181	J	0.200	0.2005		mg/L		99	70 - 130	4	25
o-Xylene	<0.000642	U	0.100	0.09727		mg/L		97	70 - 130	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

QC Association Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

GC VOA

Prep Batch: 48335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48335/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 48575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4226-8	MW-1	Total/NA	Water	8021B	
890-4226-9	MW-18	Total/NA	Water	8021B	
890-4226-10	MW-16	Total/NA	Water	8021B	
890-4226-11	MW-3	Total/NA	Water	8021B	
890-4226-12	MW-4	Total/NA	Water	8021B	
890-4226-13	MW-5	Total/NA	Water	8021B	
890-4226-14	MW-15	Total/NA	Water	8021B	
MB 880-48335/5-A	Method Blank	Total/NA	Water	8021B	48335
MB 880-48575/39	Method Blank	Total/NA	Water	8021B	
MB 880-48575/70	Method Blank	Total/NA	Water	8021B	
LCS 880-48575/34	Lab Control Sample	Total/NA	Water	8021B	
LCS 880-48575/65	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-48575/35	Lab Control Sample Dup	Total/NA	Water	8021B	
LCSD 880-48575/66	Lab Control Sample Dup	Total/NA	Water	8021B	
890-4226-14 MS	MW-15	Total/NA	Water	8021B	
890-4226-14 MSD	MW-15	Total/NA	Water	8021B	

Analysis Batch: 48785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4226-8	MW-1	Total/NA	Water	Total BTEX	
890-4226-9	MW-18	Total/NA	Water	Total BTEX	
890-4226-10	MW-16	Total/NA	Water	Total BTEX	
890-4226-11	MW-3	Total/NA	Water	Total BTEX	
890-4226-12	MW-4	Total/NA	Water	Total BTEX	
890-4226-13	MW-5	Total/NA	Water	Total BTEX	
890-4226-14	MW-15	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Client Sample ID: MW-1
Date Collected: 03/02/23 09:40
Date Received: 03/02/23 13:03

Lab Sample ID: 890-4226-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 13:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48785	03/16/23 15:29	SM	EET MID

Client Sample ID: MW-18
Date Collected: 03/02/23 10:20
Date Received: 03/02/23 13:03

Lab Sample ID: 890-4226-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 13:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48785	03/16/23 15:29	SM	EET MID

Client Sample ID: MW-16
Date Collected: 03/02/23 10:35
Date Received: 03/02/23 13:03

Lab Sample ID: 890-4226-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 14:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48785	03/16/23 15:29	SM	EET MID

Client Sample ID: MW-3
Date Collected: 03/02/23 10:50
Date Received: 03/02/23 13:03

Lab Sample ID: 890-4226-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 14:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48785	03/16/23 15:29	SM	EET MID

Client Sample ID: MW-4
Date Collected: 03/02/23 11:20
Date Received: 03/02/23 13:03

Lab Sample ID: 890-4226-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 14:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48785	03/16/23 15:29	SM	EET MID

Client Sample ID: MW-5
Date Collected: 03/02/23 11:40
Date Received: 03/02/23 13:03

Lab Sample ID: 890-4226-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 15:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48785	03/16/23 15:29	SM	EET MID

Lab Chronicle

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Client Sample ID: MW-15

Date Collected: 03/02/23 11:45
Date Received: 03/02/23 13:03

Lab Sample ID: 890-4226-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	48575	03/15/23 20:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48785	03/16/23 15:42	SM	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Method Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
5030B	Purge and Trap	SW846	EET MID

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Talon/LPE
Project/Site: Lovington Deep

Job ID: 890-4226-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4226-8	MW-1	Water	03/02/23 09:40	03/02/23 13:03
890-4226-9	MW-18	Water	03/02/23 10:20	03/02/23 13:03
890-4226-10	MW-16	Water	03/02/23 10:35	03/02/23 13:03
890-4226-11	MW-3	Water	03/02/23 10:50	03/02/23 13:03
890-4226-12	MW-4	Water	03/02/23 11:20	03/02/23 13:03
890-4226-13	MW-5	Water	03/02/23 11:40	03/02/23 13:03
890-4226-14	MW-15	Water	03/02/23 11:45	03/02/23 13:03

eurofins | Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	David Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	Attn: Camille Bryant
Address:	408 Texas St.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2002-10312
Phone:	575-441-4835	Email:	dadkins@talonlpe.com, mgomez@talonlpe.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Lovington Deep	Turn Around	
Project Number:		☑ Routine ☐ Rush	Pres. Code
Project Location:	Lea, County	Due Date:	
Sampler's Name:	M. Gomez, N. Rose	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2002-10312		

SAMPLE RECEIPT	Temp Blank: (Yes) No	Wet Ice: (Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	[illegible]
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.2
Total Containers:		Corrected Temperature:	3.0

ANALYSIS REQUEST

Parameters: BTEX 8021B

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX 8021B
MW-1	GW	3/2/23	9:40	N/A		3	X
MW-18			10:20				
MW-16			10:35				
MW-3			10:50				
MW-4			11:20				
MW-5			11:40				
MW-15			11:45				

Sample Comments

Email Analyticals to:
CJBryant@paalp.com
Maochoa@paalp.com

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		3-2-23 13:13	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4226-1
SDG Number: Lea County

Login Number: 4226
List Number: 1
Creator: Stutzman, Amanda

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4226-1
SDG Number: Lea County

Login Number: 4226
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 03/03/23 01:07 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4226-1
SDG Number: Lea County

Login Number: 4226
List Number: 3
Creator: Kramer, Jessica

List Source: Eurofins Midland
List Creation: 03/15/23 09:33 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report Rev. 1

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: Lovington Deep

Project Number: Plains All American Pipeline

Location: Lea County

Lab Order Number: 3F08005

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 07/11/23

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-3	3F08005-01	Water	06/07/23 08:57	06-08-2023 10:48
MW-4	3F08005-02	Water	06/07/23 09:30	06-08-2023 10:48
MW-18	3F08005-03	Water	06/07/23 10:16	06-08-2023 10:48
MW-5	3F08005-04	Water	06/07/23 10:49	06-08-2023 10:48
MW-1	3F08005-05	Water	06/07/23 11:25	06-08-2023 10:48
MW-15	3F08005-06	Water	06/07/23 12:03	06-08-2023 10:48
MW-20	3F08005-07	Water	06/07/23 10:47	06-08-2023 10:48
MW-19	3F08005-08	Water	06/07/23 12:18	06-08-2023 10:48

This report was initially sent with the wrong Project name and number. This revised report reflects that correction.

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-3

3F08005-01 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	**0.00373**	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 00:02	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 00:02	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:02	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:02	EPA 8021B	
Ethylbenzene	**0.00373**	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:02	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:02	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*104 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 00:02*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*97.7 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 00:02*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-4

3F08005-02 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 00:23	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 00:23	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:23	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:23	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:23	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:23	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*104 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 00:23*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*97.5 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 00:23*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-18

3F08005-03 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 00:44	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 00:44	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:44	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:44	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:44	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:44	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 00:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*107 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 00:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*95.5 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 00:44*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-5

3F08005-04 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 01:05	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 01:05	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:05	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:05	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:05	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:05	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*98.8 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 01:05*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*97.5 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 01:05*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-1

3F08005-05 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 01:26	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 01:26	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:26	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:26	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:26	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:26	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*104 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 01:26*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*99.3 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 01:26*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-15

3F08005-06 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	**0.00148**	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 01:47	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 01:47	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:47	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:47	EPA 8021B	
Ethylbenzene	**0.00148**	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:47	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:47	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 01:47	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*101 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 01:47*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*97.9 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 01:47*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-20

3F08005-07 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 02:09	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 02:09	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:09	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:09	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:09	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:09	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*103 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 02:09*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*95.5 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 02:09*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-19

3F08005-08 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Limit	Reporting Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	**0.000710**	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 02:30	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	06/09/23 13:33	06/10/23 02:30	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:30	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:30	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:30	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	*106 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 02:30*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene	*95.9 %*		*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 02:30*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F0912 - * DEFAULT PREP *** **										
Blank (P3F0912-BLK1)				Prepared & Analyzed: 06/09/23						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.122*		"	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			
LCS (P3F0912-BS1)				Prepared & Analyzed: 06/09/23						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.0948	0.00100	"	0.100		94.8	80-120			
Ethylbenzene	0.0981	0.00100	"	0.100		98.1	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.6	80-120			
Xylene (o)	0.0925	0.00100	"	0.100		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.120*		"	*0.120*		*99.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.120*		*93.0*	*80-120*			
LCS Dup (P3F0912-BSD1)				Prepared & Analyzed: 06/09/23						
Benzene	0.118	0.00100	mg/L	0.100		118	80-120	0.991	20	
Toluene	0.0979	0.00100	"	0.100		97.9	80-120	3.20	20	
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120	4.32	20	
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120	3.83	20	
Xylene (o)	0.0940	0.00100	"	0.100		94.0	80-120	1.67	20	
Surrogate: 4-Bromofluorobenzene	*0.107*		"	*0.120*		*88.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.100*		"	*0.120*		*83.5*	*80-120*			
Calibration Blank (P3F0912-CCB1)				Prepared & Analyzed: 06/09/23						
Benzene	0.160		ug/l							
Toluene	0.250		"							
Ethylbenzene	0.350		"							
Xylene (p/m)	0.840		"							
Xylene (o)	0.510		"							
Surrogate: 4-Bromofluorobenzene	*0.132*		"	*0.120*		*110*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*99.6*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F0912 - * DEFAULT PREP *** **										
Calibration Blank (P3F0912-CCB2)				Prepared & Analyzed: 06/09/23						
Benzene	0.00		ug/l							
Toluene	0.210		"							
Ethylbenzene	0.400		"							
Xylene (p/m)	0.780		"							
Xylene (o)	0.450		"							
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Calibration Check (P3F0912-CCV1)				Prepared & Analyzed: 06/09/23						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.0953	0.00100	"	0.100		95.3	80-120			
Ethylbenzene	0.0950	0.00100	"	0.100		95.0	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.7	80-120			
Xylene (o)	0.0963	0.00100	"	0.100		96.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*99.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.4*	*80-120*			
Calibration Check (P3F0912-CCV2)				Prepared & Analyzed: 06/09/23						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.0989	0.00100	"	0.100		98.9	80-120			
Ethylbenzene	0.0959	0.00100	"	0.100		95.9	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0936	0.00100	"	0.100		93.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.101*		*"*	*0.120*		*84.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.0984*		*"*	*0.120*		*82.0*	*80-120*			
Calibration Check (P3F0912-CCV3)				Prepared: 06/09/23 Analyzed: 06/10/23						
Benzene	0.113	0.00100	mg/L	0.100		113	80-120			
Toluene	0.0938	0.00100	"	0.100		93.8	80-120			
Ethylbenzene	0.0938	0.00100	"	0.100		93.8	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.1	80-120			
Xylene (o)	0.0899	0.00100	"	0.100		89.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.6*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F0912 - * DEFAULT PREP *** **										
Matrix Spike (P3F0912-MS1)	**Source: 3F08001-10**			Prepared: 06/09/23 Analyzed: 06/10/23						
Benzene	0.120	0.00100	mg/L	0.100	ND	120	80-120			
Toluene	0.0983	0.00100	"	0.100	ND	98.3	80-120			
Ethylbenzene	0.101	0.00100	"	0.100	ND	101	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200	ND	100	80-120			
Xylene (o)	0.0904	0.00100	"	0.100	ND	90.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		*"*	*0.120*		*89.4*	*80-120*			
Matrix Spike Dup (P3F0912-MSD1)	**Source: 3F08001-10**			Prepared: 06/09/23 Analyzed: 06/10/23						
Benzene	0.120	0.00100	mg/L	0.100	ND	120	80-120	0.267	20	
Toluene	0.0980	0.00100	"	0.100	ND	98.0	80-120	0.346	20	
Ethylbenzene	0.102	0.00100	"	0.100	ND	102	80-120	0.394	20	
Xylene (p/m)	0.201	0.00200	"	0.200	ND	101	80-120	0.199	20	
Xylene (o)	0.0907	0.00100	"	0.100	ND	90.7	80-120	0.309	20	
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*99.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.0*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

ROI	Received on Ice
pH1	The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 7/11/2023

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835 **Fax No:**
Sampler Signature: Matthew Gomez
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

Project Name: Lovington Deep
Project #: Plains All American Pipeline
Project Loc: Lea County
PO #: SRS #2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only) **ORDER #:** 3F08005

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge / GW=Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For: TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-3			6/7/23	8:57		3	3		3						GW			X		X
2	MW-4				9:30																
3	MW-18				10:16																
4	MW-5				10:49																
5	MW-1				11:25																
6	MW-15				12:03																
7	MW-20				10:47																
8	MW-19				12:18																

Special Instructions: Email analyticals to: CJBryant@paalp.com, Maochoa@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Matthew Gomez	6/7/23	1:20	[signature]	6-7-23	1:20
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL: [signature]	6/8/23	10:44

Laboratory Comments:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
Labels on container(s) Y N
Custody seals on container(s) Y N
Custody seals on cooler(s) Y N
Sample Hand Delivered Y N
by Sampler/Client Rep. ? N
by Courier? UPS DHL (FedEx) Lone Star
Temperature Upon Receipt:
Received: 2.0 °C Thermometor: NCF
Adjusted: °C Factor: L3

ORIGIN ID:HOBA (575) 392-7550
*
MAIL SERVICES ETC LLC
4008 N GRIMES

HOBBS, NM 88240
UNITED STATES US

SHIP DATE: 07JUN23
ACTWGT: 28.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 27x15x14 IN

BILL SENDER

TO PERMAIN BASIN ENVIRONMENTAL LAB
PERMAIN BASIN ENVIRONMENTAL LAB
1400 RANKIN HWY

MIDLAND TX 79701
(432) 686-7235 REF:
INV:
PO: DEPT:

565C2/29A8/05A2

FedEx Express

J191219082001uv

TRK# 0201 6424 9945 2383

THU - 08 JUN 12:00P
PRIORITY OVERNIGHT

41 MAFA

79701
TX-US LBB

Part # 156148-434 MTW EXP 10/23

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: Lovington Deep

Project Number: Plains All American Pipeline

Location: Lea County, NM

Lab Order Number: 3F09004

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 07/05/23

Talon LPE	Project:	Lovington Deep
2901 S. State Hwy 349	Project Number:	Plains All American Pipeline
Midland TX, 79706	Project Manager:	David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-16	3F09004-01	Water	06/08/23 08:45	06-09-2023 10:51
MW-12	3F09004-02	Water	06/08/23 08:55	06-09-2023 10:51
MW-8	3F09004-03	Water	06/08/23 09:00	06-09-2023 10:51
MW-11	3F09004-04	Water	06/08/23 09:39	06-09-2023 10:51
MW-9	3F09004-05	Water	06/08/23 09:50	06-09-2023 10:51

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-16

3F09004-01 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:51	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:51	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:51	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:51	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F0912	06/09/23 13:33	06/10/23 02:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 02:51*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.8 %*	*80-120*		*P3F0912*	*06/09/23 13:33*	*06/10/23 02:51*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-12

3F09004-02 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:14	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:14	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:14	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:14	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3F1412*	*06/14/23 12:31*	*06/14/23 15:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.6 %*	*80-120*		*P3F1412*	*06/14/23 12:31*	*06/14/23 15:14*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-8

3F09004-03 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:35	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:35	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:35	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:35	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3F1412*	*06/14/23 12:31*	*06/14/23 15:35*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.2 %*	*80-120*		*P3F1412*	*06/14/23 12:31*	*06/14/23 15:35*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-11

3F09004-04 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:55	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:55	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:55	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:55	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 15:55	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3F1412*	*06/14/23 12:31*	*06/14/23 15:55*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.9 %*	*80-120*		*P3F1412*	*06/14/23 12:31*	*06/14/23 15:55*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-9

3F09004-05 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 16:16	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 16:16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 16:16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 16:16	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3F1412	06/14/23 12:31	06/14/23 16:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*101 %*	*80-120*		*P3F1412*	*06/14/23 12:31*	*06/14/23 16:16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*99.6 %*	*80-120*		*P3F1412*	*06/14/23 12:31*	*06/14/23 16:16*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F0912 - * DEFAULT PREP *** **										
Blank (P3F0912-BLK1)				Prepared & Analyzed: 06/09/23						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.122*		"	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			
LCS (P3F0912-BS1)				Prepared & Analyzed: 06/09/23						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.0948	0.00100	"	0.100		94.8	80-120			
Ethylbenzene	0.0981	0.00100	"	0.100		98.1	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.6	80-120			
Xylene (o)	0.0925	0.00100	"	0.100		92.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.120*		"	*0.120*		*99.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		"	*0.120*		*93.0*	*80-120*			
LCS Dup (P3F0912-BSD1)				Prepared & Analyzed: 06/09/23						
Benzene	0.118	0.00100	mg/L	0.100		118	80-120	0.991	20	
Toluene	0.0979	0.00100	"	0.100		97.9	80-120	3.20	20	
Ethylbenzene	0.102	0.00100	"	0.100		102	80-120	4.32	20	
Xylene (p/m)	0.205	0.00200	"	0.200		102	80-120	3.83	20	
Xylene (o)	0.0940	0.00100	"	0.100		94.0	80-120	1.67	20	
Surrogate: 4-Bromofluorobenzene	*0.107*		"	*0.120*		*88.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.100*		"	*0.120*		*83.5*	*80-120*			
Calibration Blank (P3F0912-CCB1)				Prepared & Analyzed: 06/09/23						
Benzene	0.160		ug/l							
Toluene	0.250		"							
Ethylbenzene	0.350		"							
Xylene (p/m)	0.840		"							
Xylene (o)	0.510		"							
Surrogate: 4-Bromofluorobenzene	*0.132*		"	*0.120*		*110*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		"	*0.120*		*99.6*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F0912 - * DEFAULT PREP *** **										
Calibration Blank (P3F0912-CCB2)				Prepared & Analyzed: 06/09/23						
Benzene	0.00		ug/l							
Toluene	0.210		"							
Ethylbenzene	0.400		"							
Xylene (p/m)	0.780		"							
Xylene (o)	0.450		"							
Surrogate: 4-Bromofluorobenzene	*0.123*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Calibration Check (P3F0912-CCV1)				Prepared & Analyzed: 06/09/23						
Benzene	0.120	0.00100	mg/L	0.100		120	80-120			
Toluene	0.0953	0.00100	"	0.100		95.3	80-120			
Ethylbenzene	0.0950	0.00100	"	0.100		95.0	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.7	80-120			
Xylene (o)	0.0963	0.00100	"	0.100		96.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.119*		*"*	*0.120*		*99.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.4*	*80-120*			
Calibration Check (P3F0912-CCV2)				Prepared & Analyzed: 06/09/23						
Benzene	0.119	0.00100	mg/L	0.100		119	80-120			
Toluene	0.0989	0.00100	"	0.100		98.9	80-120			
Ethylbenzene	0.0959	0.00100	"	0.100		95.9	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0936	0.00100	"	0.100		93.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.101*		*"*	*0.120*		*84.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.0984*		*"*	*0.120*		*82.0*	*80-120*			
Calibration Check (P3F0912-CCV3)				Prepared: 06/09/23 Analyzed: 06/10/23						
Benzene	0.113	0.00100	mg/L	0.100		113	80-120			
Toluene	0.0938	0.00100	"	0.100		93.8	80-120			
Ethylbenzene	0.0938	0.00100	"	0.100		93.8	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.1	80-120			
Xylene (o)	0.0899	0.00100	"	0.100		89.9	80-120			
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*106*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.6*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F0912 - * DEFAULT PREP *** **										
Matrix Spike (P3F0912-MS1)	**Source: 3F08001-10**			Prepared: 06/09/23 Analyzed: 06/10/23						
Benzene	0.120	0.00100	mg/L	0.100	ND	120	80-120			
Toluene	0.0983	0.00100	"	0.100	ND	98.3	80-120			
Ethylbenzene	0.101	0.00100	"	0.100	ND	101	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200	ND	100	80-120			
Xylene (o)	0.0904	0.00100	"	0.100	ND	90.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		*"*	*0.120*		*89.4*	*80-120*			
Matrix Spike Dup (P3F0912-MSD1)	**Source: 3F08001-10**			Prepared: 06/09/23 Analyzed: 06/10/23						
Benzene	0.120	0.00100	mg/L	0.100	ND	120	80-120	0.267	20	
Toluene	0.0980	0.00100	"	0.100	ND	98.0	80-120	0.346	20	
Ethylbenzene	0.102	0.00100	"	0.100	ND	102	80-120	0.394	20	
Xylene (p/m)	0.201	0.00200	"	0.200	ND	101	80-120	0.199	20	
Xylene (o)	0.0907	0.00100	"	0.100	ND	90.7	80-120	0.309	20	
Surrogate: 4-Bromofluorobenzene	*0.120*		*"*	*0.120*		*99.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.0*	*80-120*			
Batch P3F1412 - * DEFAULT PREP *** **										
Blank (P3F1412-BLK1)				Prepared & Analyzed: 06/14/23						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*99.2*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F1412 - * DEFAULT PREP *** **										
LCS (P3F1412-BS1)				Prepared & Analyzed: 06/14/23						
Benzene	0.0884	0.00100	mg/L	0.100		88.4	80-120			
Toluene	0.0807	0.00100	"	0.100		80.7	80-120			
Ethylbenzene	0.0868	0.00100	"	0.100		86.8	80-120			
Xylene (p/m)	0.173	0.00200	"	0.200		86.3	80-120			
Xylene (o)	0.0803	0.00100	"	0.100		80.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.130*		*"*	*0.120*		*108*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
LCS Dup (P3F1412-BSD1)				Prepared & Analyzed: 06/14/23						
Benzene	0.0907	0.00100	mg/L	0.100		90.7	80-120	2.54	20	
Toluene	0.0822	0.00100	"	0.100		82.2	80-120	1.87	20	
Ethylbenzene	0.0879	0.00100	"	0.100		87.9	80-120	1.18	20	
Xylene (p/m)	0.173	0.00200	"	0.200		86.4	80-120	0.0811	20	
Xylene (o)	0.0804	0.00100	"	0.100		80.4	80-120	0.137	20	
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*101*	*80-120*			
Calibration Blank (P3F1412-CCB1)				Prepared & Analyzed: 06/14/23						
Benzene	0.100		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.180		"							
Xylene (p/m)	0.400		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.122*		*"*	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.7*	*80-120*			
Calibration Blank (P3F1412-CCB2)				Prepared & Analyzed: 06/14/23						
Benzene	0.250		ug/l							
Toluene	0.340		"							
Ethylbenzene	0.250		"							
Xylene (p/m)	1.50		"							
Xylene (o)	0.470		"							
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*103*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.7*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F1412 - * DEFAULT PREP *** **										
Calibration Check (P3F1412-CCV1)				Prepared & Analyzed: 06/14/23						
Benzene	0.101	0.00100	mg/L	0.100		101	80-120			
Toluene	0.0932	0.00100	"	0.100		93.2	80-120			
Ethylbenzene	0.0940	0.00100	"	0.100		94.0	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		97.9	80-120			
Xylene (o)	0.0918	0.00100	"	0.100		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	*0.124*		*"*	*0.120*		*104*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.123*		*"*	*0.120*		*102*	*80-120*			
Calibration Check (P3F1412-CCV2)				Prepared & Analyzed: 06/14/23						
Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.0983	0.00100	"	0.100		98.3	80-120			
Ethylbenzene	0.0971	0.00100	"	0.100		97.1	80-120			
Xylene (p/m)	0.203	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0946	0.00100	"	0.100		94.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.129*		*"*	*0.120*		*108*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.121*		*"*	*0.120*		*100*	*80-120*			
Calibration Check (P3F1412-CCV3)				Prepared & Analyzed: 06/14/23						
Benzene	0.0894	0.00100	mg/L	0.100		89.4	80-120			
Toluene	0.0812	0.00100	"	0.100		81.2	80-120			
Ethylbenzene	0.0816	0.00100	"	0.100		81.6	80-120			
Xylene (p/m)	0.172	0.00200	"	0.200		85.8	80-120			
Xylene (o)	0.0807	0.00100	"	0.100		80.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.131*		*"*	*0.120*		*109*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.123*		*"*	*0.120*		*103*	*80-120*			
Matrix Spike (P3F1412-MS1)		**Source: 3F09004-02**		Prepared & Analyzed: 06/14/23						
Benzene	0.101	0.00100	mg/L	0.100	ND	101	80-120			
Toluene	0.0900	0.00100	"	0.100	ND	90.0	80-120			
Ethylbenzene	0.0947	0.00100	"	0.100	0.000570	94.1	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200	ND	94.0	80-120			
Xylene (o)	0.0855	0.00100	"	0.100	ND	85.5	80-120			
Surrogate: 4-Bromofluorobenzene	*0.128*		*"*	*0.120*		*107*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*98.9*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F1412 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3F1412-MSD1)	**Source: 3F09004-02**			Prepared & Analyzed: 06/14/23						
Benzene	0.0952	0.00100	mg/L	0.100	ND	95.2	80-120	5.99	20	
Toluene	0.0870	0.00100	"	0.100	ND	87.0	80-120	3.44	20	
Ethylbenzene	0.0911	0.00100	"	0.100	0.000570	90.5	80-120	3.93	20	
Xylene (p/m)	0.180	0.00200	"	0.200	ND	90.2	80-120	4.07	20	
Xylene (o)	0.0836	0.00100	"	0.100	ND	83.6	80-120	2.21	20	
Surrogate: 4-Bromofluorobenzene	*0.126*		*"*	*0.120*		*105*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.118*		*"*	*0.120*		*98.2*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

ROI	Received on Ice
pH1	The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.
NPBEL C(	Chain of Custody was not generated at PBELAB
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 7/5/2023

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835 **Fax No:**
Sampler Signature: Matthew Gomez **e-mail:** dadkins@talonlpe.com, mgomez@talonlpe.com

Project Name: Lovington Deep
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS #2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)
ORDER #: 3F09004

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: TX 1005	TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-16			6/8/23	8:45		3	3		3						GW				X		X
2	MW-12				8:55																	
3	MW-8				9:00																	
4	MW-11				9:39																	
5	MW-9				9:50																	

Special Instructions: Email analytical to - CJBryant@paalp.com, Maochoa@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Matthew Gomez	6/8/23	10:56		6-8-23	10:57
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
				6/9/23	10:51

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?		
by Courier? UPS DHL FedEx Lone Star		

Temperature Upon Receipt:
Received: 5.1 °C Thermometer: NCF
Adjusted: °C Factor: 03


Part # 156148-434 MTW EXP 10/23
41 MAFA
79701
TX-US LBB
TRK# 6424 9945 2420
0201
FRI - 09 JUN 12:00P
PRIORITY OVERNIGHT
FedEx
Express
DEPT:
INV:
PO:
(432) 686-7235
REF:
MIDLAND TX 79701
1400 RANKIN HWY
PERMIAN BASIN ENVIRONMENTAL LAB
PERMIAN BASIN ENVIRONMENTAL LAB
TO
ORIGIN ID:HOBA (575) 392-7550
MAIL SERVICES ETC LLC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US
BILL SENDER
SHIP DATE: 08JUN23
ACTWGT: 28.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 25x16x14 IN

3F09004

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: Lovington Deep

Project Number: Plains All American Pipeline

Location: Lea County, NM

Lab Order Number: 3I07002

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 09/14/23

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-11	3I07002-01	Water	09/05/23 10:38	09-07-2023 15:13
MW-8	3I07002-02	Water	09/05/23 11:28	09-07-2023 15:13
MW-3	3I07002-03	Water	09/05/23 12:08	09-07-2023 15:13
MW-9	3I07002-04	Water	09/05/23 12:26	09-07-2023 15:13
MW-1	3I07002-05	Water	09/05/23 12:45	09-07-2023 15:13
MW-4	3I07002-06	Water	09/05/23 13:09	09-07-2023 15:13
MW-12	3I07002-07	Water	09/05/23 13:34	09-07-2023 15:13
MW-16	3I07002-08	Water	09/05/23 09:49	09-07-2023 15:13
MW-15	3I07002-09	Water	09/05/23 11:41	09-07-2023 15:13
MW-5	3I07002-10	Water	09/05/23 12:24	09-07-2023 15:13
MW-18	3I07002-11	Water	09/05/23 12:55	09-07-2023 15:13
MW-20	3I07002-12	Water	09/05/23 09:14	09-07-2023 15:13
MW-19	3I07002-13	Water	09/05/23 09:54	09-07-2023 15:13

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-11

3I07002-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 00:23	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 00:23	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 00:23	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 00:23	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 00:23	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 00:23	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 00:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.3 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 00:23*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.8 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 00:23*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-8

3I07002-02 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 01:33	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 01:33	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 01:33	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 01:33	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 01:33	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 01:33	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 01:33	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 01:33*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.9 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 01:33*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-3

3I07002-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Total BTEX	**0.0103**	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 01:56	EPA 8021B	
Xylenes (total)	**0.00286**	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 01:56	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 01:56	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 01:56	EPA 8021B	
Ethylbenzene	**0.00740**	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 01:56	EPA 8021B	
Xylene (p/m)	**0.00286**	0.00200	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 01:56	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 01:56	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.6 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 01:56*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.9 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 01:56*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-9

3I07002-04 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 02:19	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 02:19	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 02:19	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 02:19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 02:19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 02:19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 02:19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.3 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 02:19*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.8 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 02:19*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-1

3I07002-05 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 02:42	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 02:42	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 02:42	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 02:42	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 02:42	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 02:42	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 02:42	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 02:42*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.3 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 02:42*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-4

3I07002-06 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 03:05	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 03:05	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:05	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:05	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:05	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:05	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:05	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*87.0 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 03:05*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.8 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 03:05*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-12

3I07002-07 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 03:28	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 03:28	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:28	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:28	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:28	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:28	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:28	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.6 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 03:28*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.2 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 03:28*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-16

3I07002-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 03:51	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 03:51	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:51	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:51	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:51	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:51	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 03:51	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*87.3 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 03:51*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.8 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 03:51*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-15

3I07002-09 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 04:14	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 04:14	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 04:14	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 04:14	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 04:14	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 04:14	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 04:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*86.6 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 04:14*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*97.6 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 04:14*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-5

3I07002-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 04:37	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 04:37	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 04:37	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 04:37	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 04:37	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 04:37	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 04:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.2 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 04:37*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*98.0 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 04:37*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-18

3I07002-11 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 05:00	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/08/23 17:41	09/09/23 05:00	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 05:00	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 05:00	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 05:00	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 05:00	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0806	09/08/23 17:41	09/09/23 05:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.8 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 05:00*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*95.9 %*	*80-120*		*P3I0806*	*09/08/23 17:41*	*09/09/23 05:00*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-20

3I07002-12 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/11/23 12:10	09/11/23 15:39	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/11/23 12:10	09/11/23 15:39	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I1109	09/11/23 12:10	09/11/23 15:39	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I1109	09/11/23 12:10	09/11/23 15:39	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I1109	09/11/23 12:10	09/11/23 15:39	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I1109	09/11/23 12:10	09/11/23 15:39	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I1109	09/11/23 12:10	09/11/23 15:39	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*90.3 %*	*80-120*		*P3I1109*	*09/11/23 12:10*	*09/11/23 15:39*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*96.4 %*	*80-120*		*P3I1109*	*09/11/23 12:10*	*09/11/23 15:39*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-19

3I07002-13 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	**0.000600**	0.00100	mg/L	1	[CALC]	09/11/23 12:10	09/11/23 16:02	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/11/23 12:10	09/11/23 16:02	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I1109	09/11/23 12:10	09/11/23 16:02	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I1109	09/11/23 12:10	09/11/23 16:02	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I1109	09/11/23 12:10	09/11/23 16:02	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I1109	09/11/23 12:10	09/11/23 16:02	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I1109	09/11/23 12:10	09/11/23 16:02	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*80-120*		*P3I1109*	*09/11/23 12:10*	*09/11/23 16:02*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*93.5 %*	*80-120*		*P3I1109*	*09/11/23 12:10*	*09/11/23 16:02*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I0806 - * DEFAULT PREP *** **										
Blank (P3I0806-BLK1)				Prepared & Analyzed: 09/08/23						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.107*		*"*	*0.120*		*89.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.7*	*80-120*			
LCS (P3I0806-BS1)				Prepared & Analyzed: 09/08/23						
Benzene	0.0954	0.00100	mg/L	0.100		95.4	80-120			
Toluene	0.0910	0.00100	"	0.100		91.0	80-120			
Ethylbenzene	0.0902	0.00100	"	0.100		90.2	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.6	80-120			
Xylene (o)	0.0803	0.00100	"	0.100		80.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.108*		*"*	*0.120*		*89.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.5*	*80-120*			
LCS Dup (P3I0806-BSD1)				Prepared & Analyzed: 09/08/23						
Benzene	0.0962	0.00100	mg/L	0.100		96.2	80-120	0.845	20	
Toluene	0.0934	0.00100	"	0.100		93.4	80-120	2.56	20	
Ethylbenzene	0.0931	0.00100	"	0.100		93.1	80-120	3.22	20	
Xylene (p/m)	0.187	0.00200	"	0.200		93.7	80-120	4.46	20	
Xylene (o)	0.0812	0.00100	"	0.100		81.2	80-120	1.15	20	
Surrogate: 4-Bromofluorobenzene	*0.113*		*"*	*0.120*		*94.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*98.9*	*80-120*			
Calibration Blank (P3I0806-CCB1)				Prepared & Analyzed: 09/08/23						
Benzene	0.110		ug/l							
Toluene	0.140		"							
Ethylbenzene	0.260		"							
Xylene (p/m)	0.250		"							
Xylene (o)	0.110		"							
Surrogate: 4-Bromofluorobenzene	*0.107*		*"*	*0.120*		*89.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.1*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I0806 - * DEFAULT PREP *** **										
Calibration Blank (P3I0806-CCB2)				Prepared: 09/08/23 Analyzed: 09/09/23						
Benzene	0.0700		ug/l							
Toluene	0.100		"							
Ethylbenzene	0.0800		"							
Xylene (p/m)	0.110		"							
Xylene (o)	0.190		"							
Surrogate: 4-Bromofluorobenzene	*0.108*		*"*	*0.120*		*90.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.5*	*80-120*			
Calibration Check (P3I0806-CCV1)				Prepared & Analyzed: 09/08/23						
Benzene	0.0860	0.00100	mg/L	0.100		86.0	80-120			
Toluene	0.0804	0.00100	"	0.100		80.4	80-120			
Ethylbenzene	0.0802	0.00100	"	0.100		80.2	80-120			
Xylene (p/m)	0.160	0.00200	"	0.200		80.0	80-120			
Xylene (o)	0.0803	0.00100	"	0.100		80.3	80-120			
Surrogate: 4-Bromofluorobenzene	*0.102*		*"*	*0.120*		*85.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.120*		*"*	*0.120*		*100*	*80-120*			
Calibration Check (P3I0806-CCV2)				Prepared: 09/08/23 Analyzed: 09/09/23						
Benzene	0.0951	0.00100	mg/L	0.100		95.1	80-120			
Toluene	0.0954	0.00100	"	0.100		95.4	80-120			
Ethylbenzene	0.0894	0.00100	"	0.100		89.4	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.0	80-120			
Xylene (o)	0.0871	0.00100	"	0.100		87.1	80-120			
Surrogate: 4-Bromofluorobenzene	*0.107*		*"*	*0.120*		*89.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.119*		*"*	*0.120*		*98.9*	*80-120*			
Calibration Check (P3I0806-CCV3)				Prepared: 09/08/23 Analyzed: 09/09/23						
Benzene	0.0931	0.00100	mg/L	0.100		93.1	80-120			
Toluene	0.0938	0.00100	"	0.100		93.8	80-120			
Ethylbenzene	0.0872	0.00100	"	0.100		87.2	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		95.2	80-120			
Xylene (o)	0.0846	0.00100	"	0.100		84.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.100*		*"*	*0.120*		*83.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.7*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I0806 - * DEFAULT PREP *** **										
Matrix Spike (P3I0806-MS1)	**Source: 3I07001-01**			Prepared & Analyzed: 09/08/23						
Benzene	0.117	0.00100	mg/L	0.100	ND	117	80-120			
Toluene	0.113	0.00100	"	0.100	ND	113	80-120			
Ethylbenzene	0.112	0.00100	"	0.100	ND	112	80-120			
Xylene (p/m)	0.220	0.00200	"	0.200	ND	110	80-120			
Xylene (o)	0.0971	0.00100	"	0.100	ND	97.1	80-120			
Surrogate: 4-Bromofluorobenzene	*0.103*		*"*	*0.120*		*86.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		*"*	*0.120*		*97.6*	*80-120*			
Matrix Spike Dup (P3I0806-MSD1)	**Source: 3I07001-01**			Prepared & Analyzed: 09/08/23						
Benzene	0.110	0.00100	mg/L	0.100	ND	110	80-120	6.23	20	
Toluene	0.105	0.00100	"	0.100	ND	105	80-120	7.66	20	
Ethylbenzene	0.103	0.00100	"	0.100	ND	103	80-120	7.98	20	
Xylene (p/m)	0.204	0.00200	"	0.200	ND	102	80-120	7.42	20	
Xylene (o)	0.0887	0.00100	"	0.100	ND	88.7	80-120	9.09	20	
Surrogate: 4-Bromofluorobenzene	*0.101*		*"*	*0.120*		*84.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.8*	*80-120*			
Batch P3I1109 - * DEFAULT PREP *** **										
Blank (P3I1109-BLK1)				Prepared & Analyzed: 09/11/23						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.108*		*"*	*0.120*		*89.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.6*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I1109 - * DEFAULT PREP *** **										
LCS (P3I1109-BS1)				Prepared & Analyzed: 09/11/23						
Benzene	0.0869	0.00100	mg/L	0.100		86.9	80-120			
Toluene	0.0893	0.00100	"	0.100		89.3	80-120			
Ethylbenzene	0.0895	0.00100	"	0.100		89.5	80-120			
Xylene (p/m)	0.177	0.00200	"	0.200		88.7	80-120			
Xylene (o)	0.0807	0.00100	"	0.100		80.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.113*		*"*	*0.120*		*94.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.116*		*"*	*0.120*		*96.5*	*80-120*			
LCS Dup (P3I1109-BSD1)				Prepared & Analyzed: 09/11/23						
Benzene	0.0849	0.00100	mg/L	0.100		84.9	80-120	2.36	20	
Toluene	0.0870	0.00100	"	0.100		87.0	80-120	2.55	20	
Ethylbenzene	0.0871	0.00100	"	0.100		87.1	80-120	2.74	20	
Xylene (p/m)	0.172	0.00200	"	0.200		85.9	80-120	3.21	20	
Xylene (o)	0.0844	0.00100	"	0.100		84.4	80-120	4.48	20	
Surrogate: 4-Bromofluorobenzene	*0.115*		*"*	*0.120*		*95.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*96.0*	*80-120*			
Calibration Blank (P3I1109-CCB1)				Prepared & Analyzed: 09/11/23						
Benzene	0.130		ug/l							
Toluene	0.120		"							
Ethylbenzene	0.0900		"							
Xylene (p/m)	0.140		"							
Xylene (o)	0.0900		"							
Surrogate: 4-Bromofluorobenzene	*0.106*		*"*	*0.120*		*88.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.115*		*"*	*0.120*		*95.8*	*80-120*			
Calibration Blank (P3I1109-CCB2)				Prepared & Analyzed: 09/11/23						
Benzene	0.300		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	*0.101*		*"*	*0.120*		*83.8*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.120*		*90.3*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I1109 - * DEFAULT PREP *** **										
Calibration Check (P3I1109-CCV1)				Prepared & Analyzed: 09/11/23						
Benzene	0.0834	0.00100	mg/L	0.100		83.4	80-120			
Toluene	0.0917	0.00100	"	0.100		91.7	80-120			
Ethylbenzene	0.0877	0.00100	"	0.100		87.7	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200		93.9	80-120			
Xylene (o)	0.0897	0.00100	"	0.100		89.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.107*		"	*0.120*		*89.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.117*		"	*0.120*		*97.5*	*80-120*			
Calibration Check (P3I1109-CCV2)				Prepared & Analyzed: 09/11/23						
Benzene	0.0812	0.00100	mg/L	0.100		81.2	80-120			
Toluene	0.0886	0.00100	"	0.100		88.6	80-120			
Ethylbenzene	0.0896	0.00100	"	0.100		89.6	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		91.9	80-120			
Xylene (o)	0.0880	0.00100	"	0.100		88.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*84.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.108*		"	*0.120*		*90.4*	*80-120*			
Calibration Check (P3I1109-CCV3)				Prepared: 09/11/23 Analyzed: 09/12/23						
Benzene	0.0824	0.00100	mg/L	0.100		82.4	80-120			
Toluene	0.0883	0.00100	"	0.100		88.3	80-120			
Ethylbenzene	0.0895	0.00100	"	0.100		89.5	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.6	80-120			
Xylene (o)	0.0867	0.00100	"	0.100		86.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.0952*		"	*0.120*		*79.4*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.110*		"	*0.120*		*91.7*	*80-120*			
Matrix Spike (P3I1109-MS1)		**Source: 3I07002-12**		Prepared: 09/11/23 Analyzed: 09/12/23						
Benzene	0.0928	0.00100	mg/L	0.100	ND	92.8	80-120			
Toluene	0.0888	0.00100	"	0.100	ND	88.8	80-120			
Ethylbenzene	0.0919	0.00100	"	0.100	ND	91.9	80-120			
Xylene (p/m)	0.181	0.00200	"	0.200	ND	90.7	80-120			
Xylene (o)	0.0806	0.00100	"	0.100	ND	80.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*84.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.114*		"	*0.120*		*95.1*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I1109 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3I1109-MSD1)	**Source: 3I07002-12**			Prepared: 09/11/23 Analyzed: 09/12/23						
Benzene	0.0891	0.00100	mg/L	0.100	ND	89.1	80-120	4.06	20	
Toluene	0.0847	0.00100	"	0.100	ND	84.7	80-120	4.66	20	
Ethylbenzene	0.0883	0.00100	"	0.100	ND	88.3	80-120	4.01	20	
Xylene (p/m)	0.174	0.00200	"	0.200	ND	86.9	80-120	4.32	20	
Xylene (o)	0.0760	0.00100	"	0.100	ND	76.0	80-120	5.93	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.101*		*"*	*0.120*		*84.0*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.2*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
pH1	The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 9/14/2023

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager:	David Adkins	**Project Name:**	Lovington Deep (Lov Deep)
Company Name:	Talon LPE	**Project #:**	Plains All American Pipeline
Company Address:	408 Texas St.	**Project Loc:**	Lea County, NM
City/State/Zip:	Artesia, NM 88210	**PO #:**	SRS# 2002-10312
Telephone No:	575-441-4835	**Fax No:**	
Report Format:	☐ Standard ☐ TRRP ☐ NPDES		
Sampler Signature:	Matthew Gomez	**e-mail:**	dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only) **ORDER #:** 3I07002

Analyze For: TCLP: / TOTAL:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: TX 1006	TPH: TX 1005	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-11			9/5/23	10:38		3	3		3						GW				X		X
2	MW-8			9/5/23	11:28																	
3	MW-3			9/5/23	12:08																	
4	MW-9			9/5/23	12:26																	
5	MW-1			9/5/23	12:45																	
6	MW-4			9/5/23	1:09																	
7	MW-12			9/5/23	1:34																	
8	MW-16			9/6/23	9:49																	
9	MW-15			9/6/23	11:41																	
10	MW-5			9/6/23	12:24																	

Special Instructions:
Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Kayla Taylor					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			Laura MC	9/7/23	15:13

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 12.0 °C Thermometer: CF0 13
Adjusted: °C Factor:

PBEL_COC_2021_1 Revision #: 2021_1 Effective Date: 9-21-21 Page 1 of 2

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager:	David Adkins	**Project Name:**	Lovington Deep (Lov Deep)
Company Name:	Talon LPE	**Project #:**	Plains All American Pipeline
Company Address:	408 Texas St.	**Project Loc:**	Lea County, NM
City/State/Zip:	Artesia, NM 88210	**PO #:**	SRS# 2002-10312
Telephone No:	575-441-4835	**Fax No:**	
Report Format:	☐ Standard ☐ TRRP ☐ NPDES		
Sampler Signature:	Matthew Gomez	**e-mail:**	dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only) **ORDER #:** 3I07002

Analyze For: TCLP: / TOTAL:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge / GW = Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
11	MW-18			9/6/23	12:55		3	3		3						GW			X		X
12	MW-20			9/7/23	9:14		〃	〃		〃						〃			〃		〃
13	MW-19			9/7/23	9:54		〃	〃		〃						〃			〃		〃

Special Instructions:
Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Matthew Gomez					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			Rec MC	9/7/23	15:13

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 6.0 °C Thermometer:
Adjusted: °C Factor:

CF0 L3

PBEL_COC_2021_1 Revision #: 2021_1 Effective Date: 9-21-21 Page 2 of 2

PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

David Adkins

Talon LPE

2901 S. State Hwy 349

Midland, TX 79706

Project: Lovington Deep

Project Number: Plains All American Pipeline

Location: Lea County, NM

Lab Order Number: 3L07008

NELAP ACCREDITED TNI LABORATORY

Current Certification

Report Date: 12/21/23

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-20	3L07008-01	Water	12/05/23 11:10	12-07-2023 11:56
MW-19	3L07008-02	Water	12/05/23 10:45	12-07-2023 11:56
MW-18	3L07008-03	Water	12/05/23 12:13	12-07-2023 11:56
MW-4	3L07008-04	Water	12/05/23 13:34	12-07-2023 11:56
MW-11	3L07008-05	Water	12/05/23 12:33	12-07-2023 11:56
MW-12	3L07008-06	Water	12/05/23 11:58	12-07-2023 11:56
MW-9	3L07008-07	Water	12/06/23 10:46	12-07-2023 11:56
MW-5	3L07008-08	Water	12/05/23 13:53	12-07-2023 11:56
MW-8	3L07008-09	Water	12/05/23 13:19	12-07-2023 11:56
MW-16	3L07008-10	Water	12/06/23 08:46	12-07-2023 11:56
MW-15	3L07008-11	Water	12/06/23 09:46	12-07-2023 11:56
MW-3	3L07008-12	Water	12/06/23 10:19	12-07-2023 11:56
MW-1	3L07008-13	Water	12/05/23 12:52	12-07-2023 11:56

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-20

3L07008-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/16/23 22:16	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/16/23 22:16	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 22:16	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 22:16	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 22:16	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 22:16	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 22:16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/16/23 22:16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*85.5 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/16/23 22:16*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-19

3L07008-02 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	**0.00127**	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/16/23 23:25	EPA 8021B	
Xylenes (total)	**0.00127**	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/16/23 23:25	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 23:25	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 23:25	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 23:25	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 23:25	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 23:25	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.5 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/16/23 23:25*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*84.5 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/16/23 23:25*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-18

3L07008-03 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	**0.00107**	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/16/23 23:48	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/16/23 23:48	EPA 8021B	
Organics by GC									
Benzene	**0.00107**	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 23:48	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 23:48	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 23:48	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 23:48	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/16/23 23:48	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.5 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/16/23 23:48*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*84.9 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/16/23 23:48*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-4

3L07008-04 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 00:12	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 00:12	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:12	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:12	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:12	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:12	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*94.6 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 00:12*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*84.2 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 00:12*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-11

3L07008-05 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 00:35	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 00:35	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:35	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:35	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:35	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:35	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:35	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.2 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 00:35*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*85.8 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 00:35*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-12

3L07008-06 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 00:58	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 00:58	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:58	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:58	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:58	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:58	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 00:58	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.8 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 00:58*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*87.7 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 00:58*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-9

3L07008-07 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 01:21	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 01:21	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 01:21	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 01:21	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 01:21	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 01:21	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 01:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*99.4 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 01:21*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*86.0 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 01:21*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-5

3L07008-08 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 01:44	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 01:44	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 01:44	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 01:44	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 01:44	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 01:44	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 01:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*98.8 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 01:44*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*86.9 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 01:44*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-8

3L07008-09 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 02:07	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 02:07	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:07	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:07	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:07	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:07	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*94.9 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 02:07*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*84.6 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 02:07*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-16

3L07008-10 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 02:31	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 02:31	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:31	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:31	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:31	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:31	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:31	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 02:31*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*85.2 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 02:31*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-15

3L07008-11 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	**0.00100**	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 02:54	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/15/23 14:45	12/17/23 02:54	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:54	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:54	EPA 8021B	
Ethylbenzene	**0.00100**	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:54	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:54	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1508	12/15/23 14:45	12/17/23 02:54	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*97.1 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 02:54*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*86.3 %*	*80-120*		*P3L1508*	*12/15/23 14:45*	*12/17/23 02:54*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-3

3L07008-12 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	**0.00250**	0.00100	mg/L	1	[CALC]	12/18/23 10:43	12/19/23 02:59	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/18/23 10:43	12/19/23 02:59	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1809	12/18/23 10:43	12/19/23 02:59	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1809	12/18/23 10:43	12/19/23 02:59	EPA 8021B	
Ethylbenzene	**0.00250**	0.00100	mg/L	1	P3L1809	12/18/23 10:43	12/19/23 02:59	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1809	12/18/23 10:43	12/19/23 02:59	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1809	12/18/23 10:43	12/19/23 02:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.3 %*	*80-120*		*P3L1809*	*12/18/23 10:43*	*12/19/23 02:59*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.2 %*	*80-120*		*P3L1809*	*12/18/23 10:43*	*12/19/23 02:59*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

MW-1

3L07008-13 (Water)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/18/23 10:43	12/19/23 03:22	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/18/23 10:43	12/19/23 03:22	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L1809	12/18/23 10:43	12/19/23 03:22	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L1809	12/18/23 10:43	12/19/23 03:22	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L1809	12/18/23 10:43	12/19/23 03:22	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L1809	12/18/23 10:43	12/19/23 03:22	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L1809	12/18/23 10:43	12/19/23 03:22	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*88.4 %*	*80-120*		*P3L1809*	*12/18/23 10:43*	*12/19/23 03:22*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*91.4 %*	*80-120*		*P3L1809*	*12/18/23 10:43*	*12/19/23 03:22*	*EPA 8021B*	

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L1508 - * DEFAULT PREP *** **										
Blank (P3L1508-BLK1)				Prepared: 12/15/23 Analyzed: 12/16/23						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.121*		"	*0.120*		*101*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.105*		"	*0.120*		*87.3*	*80-120*			
LCS (P3L1508-BS1)				Prepared: 12/15/23 Analyzed: 12/16/23						
Benzene	0.103	0.00100	mg/L	0.100		103	80-120			
Toluene	0.0945	0.00100	"	0.100		94.5	80-120			
Ethylbenzene	0.0969	0.00100	"	0.100		96.9	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		95.0	80-120			
Xylene (o)	0.0867	0.00100	"	0.100		86.7	80-120			
Surrogate: 4-Bromofluorobenzene	*0.115*		"	*0.120*		*96.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.106*		"	*0.120*		*88.2*	*80-120*			
LCS Dup (P3L1508-BSD1)				Prepared: 12/15/23 Analyzed: 12/16/23						
Benzene	0.0990	0.00100	mg/L	0.100		99.0	80-120	4.06	20	
Toluene	0.0905	0.00100	"	0.100		90.5	80-120	4.35	20	
Ethylbenzene	0.0928	0.00100	"	0.100		92.8	80-120	4.31	20	
Xylene (p/m)	0.182	0.00200	"	0.200		91.2	80-120	4.06	20	
Xylene (o)	0.0828	0.00100	"	0.100		82.8	80-120	4.56	20	
Surrogate: 4-Bromofluorobenzene	*0.122*		"	*0.120*		*102*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*89.1*	*80-120*			
Calibration Blank (P3L1508-CCB1)				Prepared: 12/15/23 Analyzed: 12/16/23						
Benzene	0.120		ug/l							
Toluene	0.0700		"							
Ethylbenzene	0.150		"							
Xylene (p/m)	0.220		"							
Xylene (o)	0.160		"							
Surrogate: 4-Bromofluorobenzene	*0.118*		"	*0.120*		*98.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.104*		"	*0.120*		*86.9*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L1508 - * DEFAULT PREP *** **										
Calibration Blank (P3L1508-CCB2)				Prepared: 12/15/23 Analyzed: 12/16/23						
Benzene	0.100		ug/l							
Toluene	0.0700		"							
Ethylbenzene	0.160		"							
Xylene (p/m)	0.200		"							
Xylene (o)	0.120		"							
Surrogate: 4-Bromofluorobenzene	*0.117*		*"*	*0.120*		*97.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.103*		*"*	*0.120*		*86.2*	*80-120*			
Calibration Check (P3L1508-CCV1)				Prepared: 12/15/23 Analyzed: 12/16/23						
Benzene	0.110	0.00100	mg/L	0.100		110	80-120			
Toluene	0.0983	0.00100	"	0.100		98.3	80-120			
Ethylbenzene	0.0948	0.00100	"	0.100		94.8	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		96.9	80-120			
Xylene (o)	0.0896	0.00100	"	0.100		89.6	80-120			
Surrogate: 4-Bromofluorobenzene	*0.112*		*"*	*0.120*		*93.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.106*		*"*	*0.120*		*88.4*	*80-120*			
Calibration Check (P3L1508-CCV2)				Prepared: 12/15/23 Analyzed: 12/16/23						
Benzene	0.103	0.00100	mg/L	0.100		103	80-120			
Toluene	0.0929	0.00100	"	0.100		92.9	80-120			
Ethylbenzene	0.0897	0.00100	"	0.100		89.7	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		92.1	80-120			
Xylene (o)	0.0854	0.00100	"	0.100		85.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.114*		*"*	*0.120*		*95.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		*"*	*0.120*		*89.1*	*80-120*			
Calibration Check (P3L1508-CCV3)				Prepared: 12/15/23 Analyzed: 12/17/23						
Benzene	0.106	0.00100	mg/L	0.100		106	80-120			
Toluene	0.0923	0.00100	"	0.100		92.3	80-120			
Ethylbenzene	0.0880	0.00100	"	0.100		88.0	80-120			
Xylene (p/m)	0.182	0.00200	"	0.200		91.2	80-120			
Xylene (o)	0.0844	0.00100	"	0.100		84.4	80-120			
Surrogate: 4-Bromofluorobenzene	*0.113*		*"*	*0.120*		*94.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.105*		*"*	*0.120*		*87.4*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L1508 - * DEFAULT PREP *** **										
Matrix Spike (P3L1508-MS1)	**Source: 3L06003-02**			Prepared: 12/15/23 Analyzed: 12/17/23						
Benzene	0.0600	0.00100	mg/L	0.100	ND	60.0	80-120			QM-05
Toluene	0.0808	0.00100	"	0.100	ND	80.8	80-120			
Ethylbenzene	0.0740	0.00100	"	0.100	ND	74.0	80-120			QM-05
Xylene (p/m)	0.141	0.00200	"	0.200	ND	70.4	80-120			QM-05
Xylene (o)	0.0653	0.00100	"	0.100	ND	65.3	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.742*		"	*0.120*		*618*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0962*		"	*0.120*		*80.2*	*80-120*			
Matrix Spike Dup (P3L1508-MSD1)	**Source: 3L06003-02**			Prepared: 12/15/23 Analyzed: 12/17/23						
Benzene	0.0618	0.00100	mg/L	0.100	ND	61.8	80-120	3.07	20	QM-05
Toluene	0.0871	0.00100	"	0.100	ND	87.1	80-120	7.53	20	
Ethylbenzene	0.0826	0.00100	"	0.100	ND	82.6	80-120	11.1	20	
Xylene (p/m)	0.156	0.00200	"	0.200	ND	78.2	80-120	10.6	20	QM-05
Xylene (o)	0.0718	0.00100	"	0.100	ND	71.8	80-120	9.39	20	QM-05
Surrogate: 4-Bromofluorobenzene	*0.715*		"	*0.120*		*596*	*80-120*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0996*		"	*0.120*		*83.0*	*80-120*			
Batch P3L1809 - * DEFAULT PREP *** **										
Blank (P3L1809-BLK1)				Prepared: 12/18/23 Analyzed: 12/19/23						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	*0.104*		"	*0.120*		*86.4*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.107*		"	*0.120*		*89.3*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L1809 - * DEFAULT PREP *** **										
LCS (P3L1809-BS1)				Prepared: 12/18/23 Analyzed: 12/19/23						
Benzene	0.102	0.00100	mg/L	0.100		102	80-120			
Toluene	0.0926	0.00100	"	0.100		92.6	80-120			
Ethylbenzene	0.0945	0.00100	"	0.100		94.5	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200		92.9	80-120			
Xylene (o)	0.0832	0.00100	"	0.100		83.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.103*		*"*	*0.120*		*85.6*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.112*		*"*	*0.120*		*93.1*	*80-120*			
LCS Dup (P3L1809-BSD1)				Prepared: 12/18/23 Analyzed: 12/19/23						
Benzene	0.0972	0.00100	mg/L	0.100		97.2	80-120	4.68	20	
Toluene	0.0877	0.00100	"	0.100		87.7	80-120	5.44	20	
Ethylbenzene	0.0895	0.00100	"	0.100		89.5	80-120	5.41	20	
Xylene (p/m)	0.178	0.00200	"	0.200		88.8	80-120	4.61	20	
Xylene (o)	0.0836	0.00100	"	0.100		83.6	80-120	0.456	20	
Surrogate: 4-Bromofluorobenzene	*0.104*		*"*	*0.120*		*86.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		*"*	*0.120*		*94.2*	*80-120*			
Calibration Blank (P3L1809-CCB1)				Prepared: 12/18/23 Analyzed: 12/19/23						
Benzene	0.110		ug/l							
Toluene	0.170		"							
Ethylbenzene	0.140		"							
Xylene (p/m)	0.240		"							
Xylene (o)	0.190		"							
Surrogate: 4-Bromofluorobenzene	*0.107*		*"*	*0.120*		*89.3*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.110*		*"*	*0.120*		*91.4*	*80-120*			
Calibration Blank (P3L1809-CCB2)				Prepared: 12/18/23 Analyzed: 12/19/23						
Benzene	0.100		ug/l							
Toluene	0.170		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.190		"							
Xylene (o)	0.170		"							
Surrogate: 4-Bromofluorobenzene	*0.105*		*"*	*0.120*		*87.1*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		*"*	*0.120*		*92.7*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L1809 - * DEFAULT PREP *** **										
Calibration Check (P3L1809-CCV1)				Prepared: 12/18/23 Analyzed: 12/19/23						
Benzene	0.108	0.00100	mg/L	0.100		108	80-120			
Toluene	0.0980	0.00100	"	0.100		98.0	80-120			
Ethylbenzene	0.0941	0.00100	"	0.100		94.1	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		97.0	80-120			
Xylene (o)	0.0880	0.00100	"	0.100		88.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.101*		"	*0.120*		*83.9*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.113*		"	*0.120*		*94.2*	*80-120*			
Calibration Check (P3L1809-CCV2)				Prepared: 12/18/23 Analyzed: 12/19/23						
Benzene	0.109	0.00100	mg/L	0.100		109	80-120			
Toluene	0.0988	0.00100	"	0.100		98.8	80-120			
Ethylbenzene	0.0938	0.00100	"	0.100		93.8	80-120			
Xylene (p/m)	0.195	0.00200	"	0.200		97.7	80-120			
Xylene (o)	0.0892	0.00100	"	0.100		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	*0.104*		"	*0.120*		*86.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.4*	*80-120*			
Calibration Check (P3L1809-CCV3)				Prepared: 12/18/23 Analyzed: 12/19/23						
Benzene	0.104	0.00100	mg/L	0.100		104	80-120			
Toluene	0.0944	0.00100	"	0.100		94.4	80-120			
Ethylbenzene	0.0896	0.00100	"	0.100		89.6	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200		92.9	80-120			
Xylene (o)	0.0850	0.00100	"	0.100		85.0	80-120			
Surrogate: 4-Bromofluorobenzene	*0.103*		"	*0.120*		*85.5*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.2*	*80-120*			
Matrix Spike (P3L1809-MS1)		**Source: 3L07008-12**		Prepared: 12/18/23 Analyzed: 12/19/23						
Benzene	0.0925	0.00100	mg/L	0.100	ND	92.5	80-120			
Toluene	0.0824	0.00100	"	0.100	ND	82.4	80-120			
Ethylbenzene	0.0858	0.00100	"	0.100	0.00250	83.3	80-120			
Xylene (p/m)	0.164	0.00200	"	0.200	ND	82.0	80-120			
Xylene (o)	0.0729	0.00100	"	0.100	ND	72.9	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	*0.102*		"	*0.120*		*84.7*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.111*		"	*0.120*		*92.6*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3L1809 - * DEFAULT PREP *** **										
Matrix Spike Dup (P3L1809-MSD1)	**Source: 3L07008-12**			Prepared: 12/18/23 Analyzed: 12/19/23						
Benzene	0.102	0.00100	mg/L	0.100	ND	102	80-120	10.2	20	
Toluene	0.0958	0.00100	"	0.100	ND	95.8	80-120	15.0	20	
Ethylbenzene	0.102	0.00100	"	0.100	0.00250	99.6	80-120	17.8	20	
Xylene (p/m)	0.195	0.00200	"	0.200	ND	97.4	80-120	17.2	20	
Xylene (o)	0.0884	0.00100	"	0.100	ND	88.4	80-120	19.3	20	
Surrogate: 4-Bromofluorobenzene	*0.106*		*"*	*0.120*		*88.2*	*80-120*			
Surrogate: 1,4-Difluorobenzene	*0.108*		*"*	*0.120*		*90.0*	*80-120*			

Talon LPE	Project: Lovington Deep
2901 S. State Hwy 349	Project Number: Plains All American Pipeline
Midland TX, 79706	Project Manager: David Adkins

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
ROI	Received on Ice
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
pH1	The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Brent Barron Date: 12/21/2023

Brent Barron, Laboratory Director/Technical Director

Talon LPE	Project:	Lovington Deep
2901 S. State Hwy 349	Project Number:	Plains All American Pipeline
Midland TX, 79706	Project Manager:	David Adkins

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST L: CH: W:

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager:	David Adkins	**Project Name:**	Lovington Deep (Lov Deep)
Company Name:	Talon LPE	**Project #:**	Plains All American Pipeline
Company Address:	408 Texas St.	**Project Loc:**	Lea County, NM
City/State/Zip:	Artesia, NM 88210	**PO #:**	SRS# 2002-10312
Telephone No:	575-441-4835 **Fax No:**	**Report Format:**	☐ Standard ☐ TRRP ☐ NPDES
Sampler Signature:	Bartlett Madley	**e-mail:**	dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only) **ORDER #:** 3L07005

Analyze For: TCLP: TOTAL:

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water GW = Groundwater NP=Non-Potable SL=Sludge S=Soil/Solid Specify Othe	TPH: TX 1005	TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
1	MW-20			12-5-23	11:10		3	X		X						GW				X		X
2	MW-19			12-5-23	10:45		3	X		X						GW				X		X
3	MW-18			12-5-23	12:13		3	X		X						GW				X		X
4	MW-4			12-5-23	1:34		3	X		X						GW				X		X
5	MW-11			12-5-23	12:33		3	X		X						GW				X		X
6	MW-12			12-5-23	11:58		3	X		X						GW				X		X
7	MW-9			12-6-23	10:46		3	X		X						GW				X		X
8	MW-5			12-5-23	1:53		3	X		X						GW				X		X
9	MW-8			12-5-23	1:19		3	X		X						GW				X		X
10	MW-16			12-6-23	8:46		3	X		X						GW				X		X

Special Instructions: Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Relinquished by:	Date	Time	Received by:	Date	Time
Bartlett Madley	12-6-23	12:03	Ena Carrillo	12-6-23	12:15
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
			Melissa Beadle	12/7/23	11:56

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?		N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: Received: 4.2 °C Thermometer: NCF 03 Adjusted: °C Factor:

PBEL_COC_2021_1 Revision #: 2021_1 Effective Date: 9-21-21 Page 1 of 1

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

L: _____ CH: _____ W: _____

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701
Phone: 432-686-7235

Project Manager: David Adkins
Company Name: Talon LPE
Company Address: 408 Texas St.
City/State/Zip: Artesia, NM 88210
Telephone No: 575-441-4835 **Fax No:**
Sampler Signature: Bartlett Madley

Project Name: Lovington Deep (Lov Deep)
Project #: Plains All American Pipeline
Project Loc: Lea County, NM
PO #: SRS# 2002-10312
Report Format: ☐ Standard ☐ TRRP ☐ NPDES
e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only) **ORDER #:** 3L07008

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TPH: TX 1005 TX 1006	Anions (Cl, SO4, Alkalinity)	BTEX 8021B/5030 or BTEX 8260	RUSH TAT (Pre-Schedule) 24, 48, 72 h	Standard TAT
11	MW-15			12-6-23	9:46		3	X		X						GW			X		X
12	MW-3			12-6-23	10:19		3	X		X						GW			X		X
13	MW-1			12-5-23	12:52		3	X		X						GW			X		X

Special Instructions: Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHudgens@paalp.com

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt:
Received: 4.2 °C Thermometer: NCE
Adjusted: °C Factor: 1.0

Relinquished by:	Date	Time	Received by:	Date	Time
Bartlett Madley	12-6-23	12:03		12-6-23	2:15
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by PBEL:	Date	Time
				12/7/23	11:56

PBEL_COC_2021_1 Revision #: 2021_1 Effective Date: 9-21-21

Page 1 of 2

*TALON LPE
(575) 392-7550
MAIL SERVICES ETC, LLC
4008 N GRIMES ST
HOBBS NM 88240

39 LBS

1 OF 1

DWT: 27,15,15
AH

SHIP TO:
PERMAIN BASIN ENVIROMENTAL LAB LP
(575) 441-4835
PERMAIN BASIN ENVIORMENTAL LAB LP
1400 RANKIN HWY
MIDLAND TX 79701-8137

TX 797 9-01

UPS NEXT DAY AIR

1

TRACKING #: 1Z 792 380 01 4299 5454

BILLING: P/P

WS 26.0.6 LP2844 48 0A 11/2023

SEE NOTICE ON REVERSE regarding UPS Terms, and notice of limitation of liability. Where allowed by law, shipper authorizes UPS to act as forwarding agent for export control and customs purposes. If exported from the US, shipper certifies that the commodities, technology or software were exported from the US in accordance with the Export Administration Regulations. Diversion contrary to law is prohibited.

For information about UPS's privacy practices or to opt out from the sale of personal information, please see the UPS Privacy Notice at www.ups.com

RRD R 1023

Proof of Delivery

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number
1Z7923800142995454

Weight
39.00 LBS

Service
UPS Next Day Air®

Shipped / Billed On
12/06/2023

Delivered On
12/07/2023 11:56 A.M.

Delivered To
MIDLAND, TX, US

Received By
BASIN

Please print for your records as photo and details are only available for a limited time.

Sincerely,

UPS

Tracking results provided by UPS: 12/07/2023 1:10 P.M. EST

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 349751

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	34053
	Action Number: 349751
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Annual Groundwater Monitoring Report for Lovington Deep 6": content satisfactory 1. Continue to remove PSH by MDPE events as scheduled for the site. 2. Conduct groundwater monitoring events quarterly for BTEX and PAH analyses. 3. Submit the 2024 annual monitoring report to OCD by April 1, 2025.	8/19/2024