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2022 ANNUAL GROUNDWATER MONITORING REPORT

HOBBS JUNCTION MAINLINE
LEA COUNTY, NEW MEXICO
SRS #2003—00017
NMOCD REF. # AP-054, nAPP2109528296

PREPARED FOR:
PLAINS PIPELINE, L.P.
333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS 77002

PREPARED BY:
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Reviewed 2022 Annual Groundwater Monitoring Report and results: **Content Satisfactory, but was missing content**
1. Continue to Monitor groundwater wells for COCs per this report.
2. Include section for recommendations (4.2) (Missing Information in report)
3. Submit 2023 Annual Report by April 1, 2024.

March 28, 2023

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TALON/LPE PROJECT NO. 700376.052.11

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March 28, 2023

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NMOCD – New Mexico Oil Conservation Division
NMSLO – New Mexico State Land Office

TABLE OF CONTENTS

APPENDICES

1.0 INTRODUCTION

1.1 Objectives and Site Background

The Hobbs Junction Mainline (site) is located approximately three (3) miles west of Hobbs, in Unit Letter M, Section 26, Township 18 South and Range 37 East in Lea County, New Mexico. The GPS coordinates of this site are 32.711580 latitude and -103.228061 longitude. The land on the southern portion of the site is owned by the estate of Ms. Faye Klein and the land on the northern portion of the site is owned by the State of New Mexico. A site plan is provided as Figure 1 included in Appendix A.

1.2 Site Geology

The surface 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 top soil 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, the Ogallala was deposited by fluvial mechanism as paleovalley fill composed of gravelly to sandy braided stream deposits that trended 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.

1.3 Previous Environmental Investigations

Currently, a total of 33 monitor wells have been installed in the vicinity of the release (see Figure 1). Initial groundwater delineation activities began on February 13, 2003, by advancing a soil boring (BH-1) in the vicinity of the release point with a hollow-stem auger drilling rig. Refusal occurred 28 feet below ground surface (bgs), in well-indurated caliche. On March 5, 2003, using an air rotary rig, monitor wells MW-1 and MW-2 were installed to groundwater in order to evaluate the presence of phase separated hydrocarbons (PSH). After it was determined that monitor wells MW-1 and MW-2 were impacted with PSH, monitor wells MW-3 through MW-6 were installed in August 2003. PSH was detected in monitor wells MW-3 through MW-6 during the development process. On January 19 and 20, 2004, monitor wells MW-7 through MW-13 were installed in order to delineate the dissolved-phase plume. Subsequent to development, PSH was detected in monitor well MW-12. Monitor wells MW-14 through MW-17 were installed on May 24, 2004, outside the release perimeter. PSH was detected in monitor wells MW-14 and MW-17. Monitor wells MW-18 through MW-20 were installed in November 2006, and monitor wells MW-21

and MW-22 were installed on December 5, 2007, in order to further delineate the dissolved phase plume. Monitor wells MW-23 and MW-24 were installed on March 17, 2008, as requested by the New Mexico Oil Conservation Division (NMOCD), in order to further delineate the dissolved phase plume down-gradient towards the southeast. Subsequently, monitor wells MW-25, MW-26, and MW-27 were installed in December of 2011 to increase the density of pumping wells in order to increase drawdown of the groundwater level to further impede the migration of the dissolved-phase plume. Six (6) new monitor wells (MW-28 through MW-33) were installed in late April 2015. Two (2) of the wells, MW-29 and MW-30, were completed with 4-inch screen and blank riser to accommodate pneumatic pumps. Four (4) of the wells (MW-28 and MW-31 through MW33) were completed with 2-inch screen and blank riser to further delineate the benzene, toluene, ethylbenzene, and xylenes (BTEX) contamination located to the north, northeast, south and southeast (downgradient) of the dissolved-phase plume.

A quarterly groundwater monitoring program was implemented for the site that included PSH recovery utilizing an automated eductor system, which operated from March 2004 to March 2007. In March 2007, the eductor system was replaced with an automated pneumatic skimmer and bladder pump PSH recovery system. At that time, a total of eight (8) skimmer pumps were installed in monitor wells MW-1, MW-2, MW-3, MW-4, MW-6, MW-12, MW-14, and MW-17 and a pneumatic total fluid pump was installed in monitor well MW-5. Total fluid pumps were installed in monitor wells MW-25 and MW-26 in 2012.

Currently, there are 12 pneumatic total fluid pumps installed in monitor wells MW-1 through MW-6, MW-11, MW-25 though MW-27, MW-29, and MW-30. The recovered PSH and water was pumped into a holding tank within a lined secondary containment. As the tank level fills, a high-level head pressure switch engages a fluid transfer pump that moves the recovered fluids to the Occidental Permian North Hobbs Unit Satellite 25 SWD.

During 2022, the recovery system extracted 58.22 barrels (bbls) of PSH and 6,966.70 bbls of groundwater.

Additionally, during 2022, 12 mobile dual-phase extraction (MDPE) events were conducted at the site on January 12, March 2, March 29, April 13, May 10, June 14, July 21, August 11, September 28, October 24, November 17, and December 21, 2022. A total of 281.09 bbls of PSH were recovered, consisting of 160.44 bbls of liquid PSH and 120.65 bbls of vapor PSH. In addition, 406.03 bbls of groundwater were recovered during the MDPE events conducted in 2022.

1.4 Regulatory Framework

Groundwater analytical data collected during quarterly groundwater monitoring events at the site is evaluated to the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards listed in the table below:

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

mg/L: milligrams per liter

2.0 SITE ACTIVITIES

The sections that follow summarize groundwater monitoring, PSH recovery and site assessment activities conducted at the site during the year 2022. 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 plumes in order to verify the effectiveness of the remediation system as to inhibiting plume migration, reducing the volume of PSH impact to the groundwater and determining if modifications to the remediation system would improve performance and efficiency.

2.1 Groundwater Monitoring Activities

A total of four (4) groundwater monitoring events were conducted by Talon/LPE in 2022. The events occurred in: March, June, September, and December.

During the March 2022 groundwater monitoring event, groundwater samples were collected from 11 monitor wells: MW-7, MW-19, MW-21 through MW-25, MW-28, and MW-31 through MW-33. Due to the presence of PSH, 18 monitor wells (MW-1 through MW-6, MW-8, MW-10 through MW-12, MW-14 through MW-17, MW-26, MW-27, MW-29, and MW-30) were not sampled. It was noted that two (2) monitor wells (MW-9 and MW-20) were dry and two (2) monitor wells (MW-13 and MW-18) had insufficient water to purge or sample; therefore, the aforementioned wells were not purged or sampled.

During the June 2022 groundwater monitoring event, groundwater samples were collected from 13 monitor wells: MW-7, MW-13, MW-18, MW-19, MW-21 through MW-25, MW-28, and MW-31 through MW-33. Due to the presence of PSH, 18 monitor wells (MW-1 through MW-6, MW-8, MW-10 through MW-12, MW-14 through MW-17, MW-26, MW-27, MW-29, and MW-30) were not sampled. It was noted that two (2) monitor wells (MW-9 and MW-20) were dry; therefore, the aforementioned wells were not purged or sampled.

During the September 2022 groundwater monitoring event, groundwater samples were collected from 10 monitor wells: MW-7, MW-21 through MW-25, MW-28, MW-31 through MW-33. Due to the presence of PSH, 19 monitor wells (MW-1 through MW-6, MW-8, MW-10 through MW-12, MW-14 through MW-17, MW-20, MW-26, MW-27, MW-29, and MW-30) were not sampled. It was noted that monitor well MW-9 was dry and three (3) monitor wells (MW-13, MW-18, and MW-19) had insufficient water to purge or sample; therefore, the aforementioned wells were not purged or sampled.

During the December 2022 groundwater monitoring event, groundwater samples were collected from 10 monitor wells: MW-7, MW-21 through MW-25, MW-28, MW-31 through MW-33. Due to the presence of PSH, 19 monitor wells (MW-1 through MW-6, MW-8, MW-10 through MW-12, MW-14 through MW-17, MW-20, MW-26,

MW-27, MW-29, and MW-30) were not sampled. It was noted that monitor well MW-9 was dry and three (3) monitor wells (MW-13, MW-18 MW-19) had insufficient water to purge or sample; therefore, the aforementioned wells were not purged or sampled.

Details of the gauging, purging, and sampling collection 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 monitor the presence and/or absence of PSH accumulations. The top of groundwater elevation was corrected in monitor wells impacted with PSH by the following equation: <Corrected groundwater elevation = the surveyed top of casing elevation – (measured depth to water) – (PSH thickness x the specific gravity of the PSH)>. Measured groundwater depths and elevations collected during the 2022 sampling events, along with historical measurements, are presented in Table 1 – Groundwater Gauging Data - Historical in Appendix B.

Subsequent to gauging, all monitor wells with sufficient water volume that did not indicate the presence of PSH were purged a minimum of three (3) well volumes prior to sample collection. All monitor wells were purged utilizing dedicated disposable polyethylene bailers or 12-volt submersible pump and vinyl tubing. The pumps and tubing used to purge the wells were decontaminated with Alconox® detergent and rinsed with distilled water prior to initial use and between sample collection events. All recovered groundwater from purging activities and recovered water used in the decontamination process were contained onsite in the system recovery tank until the water was transferred to the Occidental Permian's North Hobbs Satellite disposal facility.

Groundwater samples were collected from monitoring wells not impacted with PSH utilizing dedicated disposable polyethylene bailers. The groundwater samples collected were transferred from the disposable bailer into appropriately preserved laboratory supplied sample containers. The groundwater samples were maintained on ice in the custody of Talon/LPE until submittal to Eurofins Xenco Laboratories, Inc. in Carlsbad, New Mexico for analysis. The collected samples were analyzed for BTEX by EPA Method SW-846 8021B.

Groundwater samples collected from MW-19, MW-21, MW-23, MW-24, and MW-25 were also analyzed for Monitored Natural Attenuation (MNA) parameters. The monitor wells sampled for MNA parameters were purged using low-flow groundwater sampling procedures. Field parameters for dissolved oxygen, oxidation-reduction potential. pH, temperature, and conductivity were collected every three (3) to five (5) minutes during purging activities. When three (3) consecutive, consistent readings were observed, a groundwater sample was taken from the pump's discharge tubing into appropriately preserved, laboratory supplied sample containers. The groundwater samples were maintained on ice in the custody of Talon/LPE until

submittal to Eurofins Xenco Laboratories, Inc. in Carlsbad, New Mexico for analysis of nitrate, sulfate, ferrous iron, manganese, alkalinity, and methane.

2.3 Phase Separated Hydrocarbon and Groundwater Recovery

The crude oil and groundwater recovered with the total fluid pumps were expelled into an onsite frac tank used as a settling tank where the oil and water are gravity separated. The tank is equipped with a head pressure switch, which operates a transfer pump. When the pump is engaged, recovered water is transferred to Occidental Permian's North Hobbs Satellite disposal facility via a 4-inch diameter High Density Polyethylene (HDPE) flow line.

The depth to water and/or PSH is periodically measured with an oil/water interface probe so that recovered volumes can be calculated. An in-line flow meter is also installed downstream of the transfer pump to quantify the total fluids recovered.

During 2022, the quarterly PSH and groundwater recovery totals for the system are as follows:

- 1st Quarter – 19.5 bbls of crude oil and 1,957 bbls of groundwater
- 2nd Quarter – 30.6 bbls of crude oil and 3,814 bbls of groundwater
- 3rd Quarter – 5.6 bbls of crude oil and 962 bbls of groundwater
- 4th Quarter – 2.52 bbls of crude oil and 233.7 bbls of groundwater

In addition to the recovery system, 12 MDPE events, in which liquid and vapor PSH were recovered, were conducted on site during 2022. The MDPE event recovery totals are as follows:

- January 12, 2022 – 11.26 bbls of vapor and 7.36 bbls of liquid
- March 2, 2022 – 9.21 bbls of vapor and 8.01 bbls of liquid
- March 29, 2022 – 13.19 bbls of vapor and 10.49 bbls of liquid
- April 13, 2022 – 8.86 bbls of vapor and 11.31 bbls of liquid
- May 10, 2022 – 3.68 bbls of vapor and 16.16 bbls of liquid
- June 14, 2022 – 7.21 bbls of vapor and 26.48 bbls of liquid
- July 1, 2022 – 13.23 bbls of vapor and 6.70 bbls of liquid
- August 11, 2022 – 11.65 bbls of vapor and 11.25 bbls of liquid
- September 28, 2022 – 12.07 bbls of vapor and 9.08 bbls of liquid
- October 24, 2022 – 6.50 bbls of vapor and 6.86 bbls of liquid
- November 17, 2022 – 11.18 bbls of vapor and 30.24 bbls of liquid
- December 21, 2022 – 12.61 bbls of vapor and 16.49 bbls of liquid

Approximately 339.32 bbls of oil were recovered during 2022 and a total of 5,274.11 bbls of PSH has been recovered from the site to date.

3.0 GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 – Groundwater Analytical Data - Historical and Table 4 – Groundwater Analytical Data – Historical – MNA Supplement in Appendix B. Laboratory analytical 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 Hobbs Junction Mainline site.

3.1 Physical Characteristics of the First Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, including 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, encompassing all or part of 31 counties in Texas and 6 counties in New Mexico.

The Ogallala Aquifer has experienced acute depletion from extensive irrigation and urban demand, which has 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 up to 1.6 inches per year.

The Ogallala Aquifer is generally unconfined and the potentiometric surface generally mimics the topography with the regional flow direction from the northwest to the 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 been approximately 40 feet bgs and the groundwater flow direction is to the southeast at an average of 25 feet per mile.

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 often treatment strategies are 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 (ppm) in areas not impacted by oil-field brines. The pH of Ogallala water averages 7.3.

3.2 Groundwater Gradient and Flow Direction

Water level measurements were collected from all monitor wells during each of the quarterly groundwater monitoring events during 2022. The data collected is summarized in Table 1 - Groundwater Gauging Data - Historical, presented in Appendix B. Potentiometric surface contour maps were constructed from the four (4)

water level measurement datasets. These maps are Figure 2a through Figure 2d presented in Appendix A. The groundwater flow direction at the site is consistently towards the general east-southeast, at an average gradient of 0.0047 feet/foot or approximately 24.82 feet per mile. Groundwater levels at the subject site have decreased on average 0.062 feet in 2022 and approximately 3.54 feet since 2017.

3.3 Phase Separated Hydrocarbon

The collection of water level measurement data was conducted using an oil/water interface probe, which was also used to determine the presence of PSH.

- In March 2022, PSH was observed in monitor wells MW-1 through MW-6, MW-8, MW-10 through MW-12, MW-14 through MW-17, MW-26, MW-27, MW-29 and MW-30. PSH thicknesses ranged from 0.01 feet in MW-8, MW-11, MW-16, and MW-30 to 5.70 feet in MW-1.
- In June 2022, PSH was observed in monitor wells MW-1 through MW-6, MW-8, MW-10 through MW-12, MW-14 through MW-17, MW-26, MW-27, MW-29, and MW-30. PSH thicknesses ranged from 0.01 feet in MW-16 and MW-30 to 5.39 feet in MW-4.
- In September 2022, PSH was observed in monitor wells MW-1 through MW-6, MW-8, MW-10 through MW-12, MW-14 through MW-17, MW-20, MW-26, MW-27, MW-29, and MW-30. PSH thicknesses ranged from 0.01 feet in MW-20 and MW-30 to 6.26 feet in MW-1.
- In December 2022, PSH was observed in monitor wells MW-1 through MW-6, MW-8, MW-10 through MW-12, MW-14 through MW-17, MW-20, MW-26, MW-27, MW-29, and MW-30. PSH thicknesses ranged from 0.01 feet in MW-8, MW-20, and MW-30 to 5.38 feet in MW-4.

PSH thickness isopleths maps are presented as Figure 3a through Figure 3d in Appendix A.

3.4 Groundwater Sampling Results

During the March 2022 groundwater monitoring event, groundwater samples were collected from 11 monitor wells: MW-7, MW-19, MW-21 through MW-25, MW-28, and MW-31 through MW-33. Samples collected from MW-23, MW-24, and MW-25 were also analyzed for MNA parameters.

- Benzene concentrations ranged from less than the laboratory Method Detection Limit (MDL) in MW-7, MW-22, MW-23, MW-24, MW-28, MW-31, and MW-33 to 1.91 mg/L in MW-21. Benzene concentrations exceeded the NMWQCC standard of 0.010 mg/L in monitor wells MW-19, MW-21, and MW-25.
- Toluene concentrations ranged from less than the laboratory MDL in MW-7, MW-19, MW-22 through MW-25, MW-28 , MW-31, and MW-33 to 0.574 mg/L in MW-21. Toluene concentrations did not exceed the NMWQCC standard of 0.750 mg/L in any monitor wells sampled.

- Ethylbenzene concentrations ranged from less than the laboratory MDL in MW-7, MW-21 through MW-24, MW-28, and MW-31 through MW-33 to 0.0880 mg/L in MW-19. Ethylbenzene concentrations did not exceed the NMWQCC standard of 0.750 mg/L in any monitor wells sampled.
- Xylene concentrations ranged from less than the laboratory MDL in wells MW-7, MW-22 through MW-24, MW-28, and MW-31 through MW-33 to 0.730 mg/L in MW-21. Xylene concentrations exceeded the NMWQCC standard of 0.620 mg/L in monitor well MW-21.
- Methane concentrations ranged from <0.453 ug/L in MW-24 and MW-25 to 1,500 ug/L in MW-23.
- Ferrous iron concentrations were < 0.0280 mg/L in MW-23, MW-24 and MW-25.
- Manganese concentrations ranged from 0.00472 mg/L in MW-24 to 0.0478 mg/L in MW-23.
- Total Alkalinity concentrations ranged from 215 mg/L in MW-24 to 276 mg/L in MW-23.
- Sulfate concentrations ranged from 62.3 mg/L in MW-23 to 125 mg/L in MW-24.
- Nitrate as N concentrations ranged from 0.810 mg/L in MW-23 to 2.56 mg/L in MW-25.

During the June 2022 groundwater monitoring event, groundwater samples were collected from 13 monitor wells: MW-7, MW-13, MW-18, MW-19, MW-21 through MW-25, MW-28, and MW-31 through MW-33. Samples collected from MW-19, MW-21, MW-23, and MW-24 were also analyzed for MNA parameters.

- Benzene concentrations ranged from less than the laboratory MDL in MW-7, MW-18, MW-22, MW-23, MW-24, MW-28, and MW-31 through MW-33 to 0.268 mg/L in MW-25. Benzene concentrations exceeded the NMWQCC standard of 0.010 mg/L in monitor wells MW-19, MW-21, and MW-25.
- Toluene concentrations ranged from less than the laboratory MDL in MW-7, MW-13, MW-18, MW-21 through MW-25, MW-28, and MW-31 through MW-33 to 0.00962 mg/L in MW-19. Toluene concentrations did not exceed the NMWQCC standard of 0.750 mg/L in any of the monitor wells sampled.
- Ethylbenzene concentrations ranged from less than the laboratory MDL in MW-7, MW-13, MW-18, MW-22, MW-23, MW-28, and MW-31 through MW-33 to 0.298 mg/L in MW-19. Ethylbenzene concentrations did not exceed the NMWQCC standard of 0.750 mg/L in any of the monitor wells sampled.
- Xylene concentrations ranged from less than the laboratory MDL in MW-7, MW-13, MW-18, MW-22, MW-23, MW-28, and MW-31 through MW-33 to 0.160 mg/L in MW-19. Xylene concentrations did not exceed the NMWQCC standard of 0.620 mg/L in any of the monitor wells sampled.

- Methane concentrations ranged from 0.813 ug/L in MW-23 to 1,270 ug/L in MW-21.
- Ferrous iron concentrations ranged from <0.0280 mg/L in MW-19 to 0.660 mg/L in MW-23.
- Manganese concentrations ranged from 0.0130 mg/L in MW-24 to 0.0887 mg/L in MW-19.
- Total Alkalinity concentrations ranged from 235 mg/L in MW-24 to 496 mg/L in MW-19.
- Sulfate concentrations ranged from 21.8 mg/L in MW-19 to 121 mg/L in MW-23.
- Nitrate as N concentrations ranged from 0.210 mg/L in MW-21 to 2.36 mg/L in MW-23.

During the September 2022 groundwater monitoring event, groundwater samples were collected from 10 monitor wells: MW-7, MW-21 through MW-25, MW-28, and MW-31 through MW-33. Samples collected from MW-21, MW-23, MW-24, and MW-25 were also analyzed for MNA parameters.

- Benzene concentrations ranged from less than the laboratory MDL in MW-21 through MW-24, MW-28, and MW-31 through MW-33 to 0.392 mg/L in MW-25. Benzene concentrations exceeded the NMWQCC standard of 0.010 mg/L in monitor well MW-25.
- Toluene concentrations were less than the laboratory MDL in all monitor wells except MW-25, which exhibited a concentration of 0.000603 mg/L. Toluene concentrations did not exceed the NMWQCC standard of 0.750 mg/L in any of the monitor wells sampled.
- Ethylbenzene concentrations ranged from less than the laboratory MDL in MW-7, MW-22 through MW-24, MW-28, and MW-31 through MW-33 to 0.00666 mg/L in MW-25. Ethylbenzene concentrations did not exceed the NMWQCC standard of 0.750 mg/L in any of the monitor wells sampled.
- Xylene concentrations was less than the laboratory MDL in all monitor wells expect MW-25 which exhibited a concentration of 0.00321 mg/L. Xylene concentrations did not exceed the NMWQCC standard of 0.620 mg/L in any of the monitor wells sampled.
- Methane concentrations ranged from <0.453 ug/L in MW-23 and MW-24 to 753 ug/L in MW-25.
- Ferrous iron concentrations ranged from 0.0900 mg/L in MW-21 to 0.520 mg/L in MW-25.
- Manganese concentrations ranged from 0.00507 mg/L in MW-23 to 0.121 mg/L in MW-25.
- Total Alkalinity concentrations ranged from 227 mg/L in MW-24 to 268 mg/L in MW-23.

- Sulfate concentrations ranged from 56.0 mg/L in MW-21 to 121 mg/L in MW-23.
- Nitrate as N concentrations ranged from 0.496 mg/L in MW-21 to 2.26 mg/L in MW-24.

During the December 2022 groundwater monitoring event, groundwater samples were collected from 10 monitor wells: MW-7, MW-21 through MW-25, MW-28, MW-31 through MW-33. Samples collected from MW-21, MW-23, MW-24, and MW-25 were also analyzed for MNA parameters.

- Benzene concentrations ranged less than the laboratory MDL in MW-7, MW-23, MW-28, and MW-31 through MW-33 to 0.613 mg/L in MW-21. Benzene concentrations exceeded the NMWQCC standard of 0.010 mg/L in monitor well MW-21.
- Toluene concentrations were less than the laboratory MDL in all wells except MW-25 which exhibited a concentration of 0.000607 mg/L. Toluene concentrations were below the NMWQCC standard of 0.750 mg/L in all wells sampled this quarter.
- Ethylbenzene concentrations ranged from less than the laboratory MDL in MW-7, MW-22, MW-23, MW-28, and MW-31 through MW-33 to 0.211 mg/L in MW-21. Ethylbenzene concentrations were below the NMWQCC standard of 0.750 mg/L in all wells this quarter.
- Xylene concentrations were less than the laboratory MDL in all wells except MW-21, which exhibited a concentration of 0.0274 mg/L. Xylene concentrations did not exceed the NMWQCC standard of 0.620 mg/L in any of the wells sampled this quarter.
- Methane concentrations ranged from <0.453 ug/L in MW-23 to 1,860 ug/L in MW-21.
- Ferrous iron concentrations ranged from 0.0500 mg/L in MW-25 to 0.510 mg/L in MW-21.
- Manganese concentrations ranged from 0.00528 mg/L in MW-23 to 0.0611 mg/L in MW-21.
- Total Alkalinity concentrations ranged from 234 mg/L in MW-24 to 394 mg/L in MW-21.
- Sulfate concentrations ranged from 26.7 mg/L in MW-21 to 109 mg/L in MW-23.
- Nitrate as N concentrations ranged from 0.342 mg/L in MW-25 to 2.30 mg/L in MW-24.

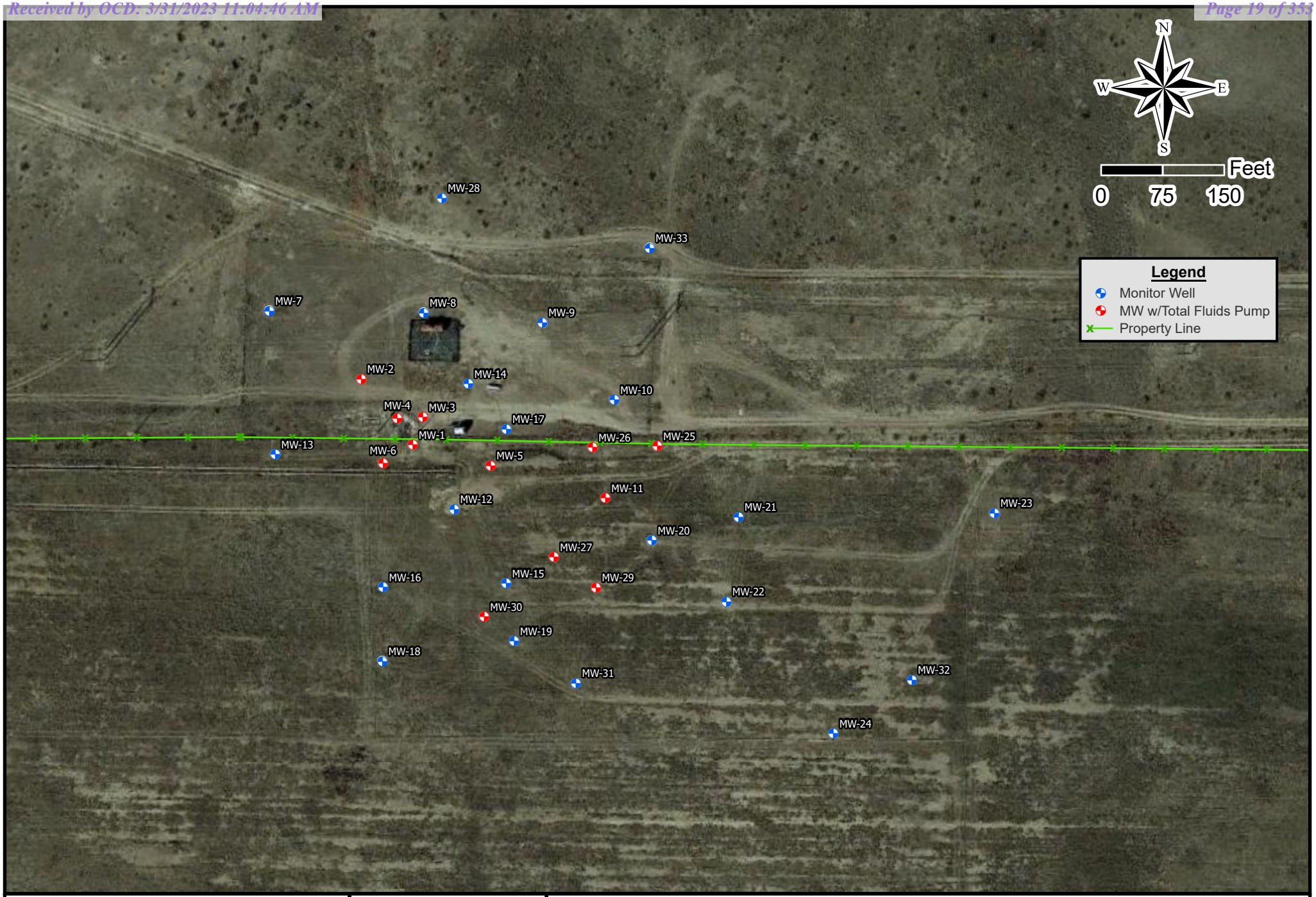
The laboratory analytical results are summarized in Tables 2 and 4 in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C.

Benzene concentrations in wells MW-19, MW-21, MW-22 and MW-25 were analyzed using the Mann-Kendall statistical method to quantitatively determine if the concentrations are increasing, decreasing, or stable over time. The Mann-Kendall analysis is a non-parametric statistical procedure that is used for analyzing trends in data over time. The data was analyzed using the GSI Environmental Inc. Mann-Kendall Toolkit software. Based on the analysis, benzene concentrations in wells MW-19, MW-22, and MW-25 show a decreasing trend. Results of the Mann-Kendall analysis are included in Appendix D.

APPENDIX A

Figures

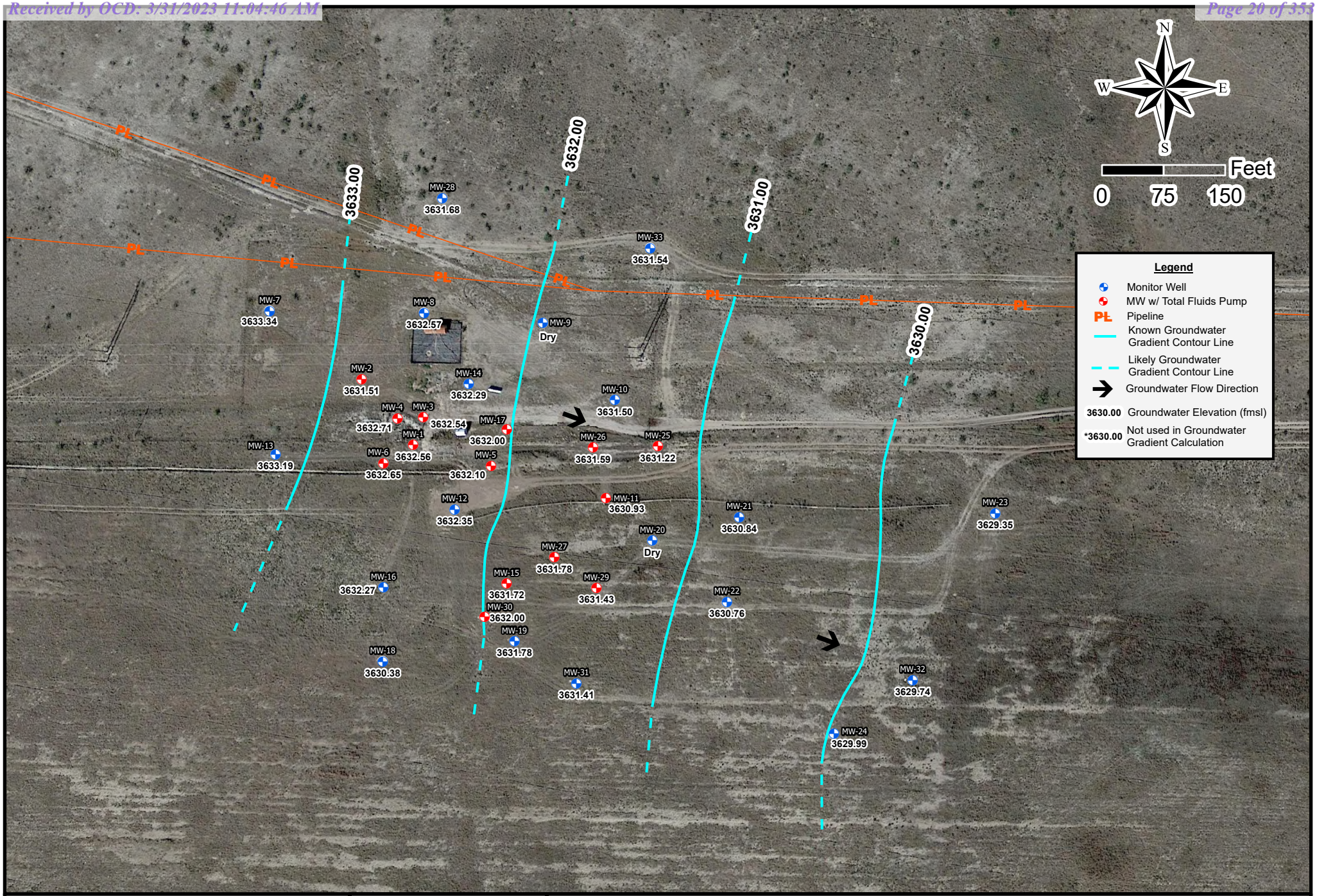
Figure 1 – Site Plan
Figure 2a – Groundwater Gradient Map – 03/22/2022
Figure 2b – Groundwater Gradient Map – 06/21/2022
Figure 2c – Groundwater Gradient Map – 09/26/2022
Figure 2d – Groundwater Gradient Map – 12/27/2022
Figure 3a – PSH Thickness & Groundwater Concentration Map – 03/22-23/2022
Figure 3b – PSH Thickness & Groundwater Concentration Map – 06/21-23/2022
Figure 3c – PSH Thickness & Groundwater Concentration Map – 09/26-29/2022
Figure 3d – PSH Thickness & Groundwater Concentration Map – 12/27-29/202
Figure 4- Proposed Well Locations



TALON LPE

Drafted: 12/9/2022
1 in = 150 ft
Drafted By: JAI

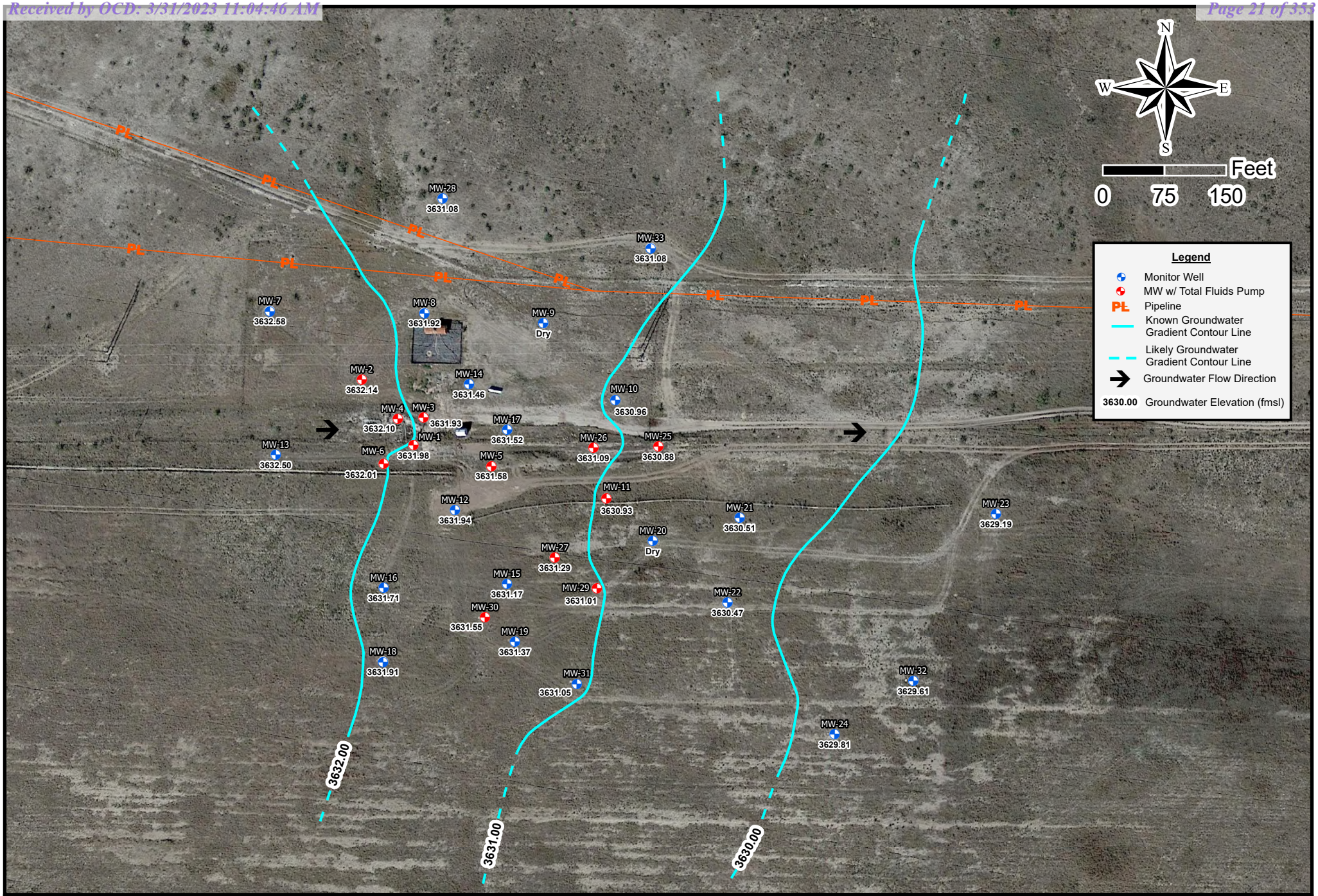
Hobbs Junction Mainline
SRS # 2003-00017, NMOCD REF. #nAPP2109528296
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
32.711580, -103.228061
Figure 1 - Site Plan



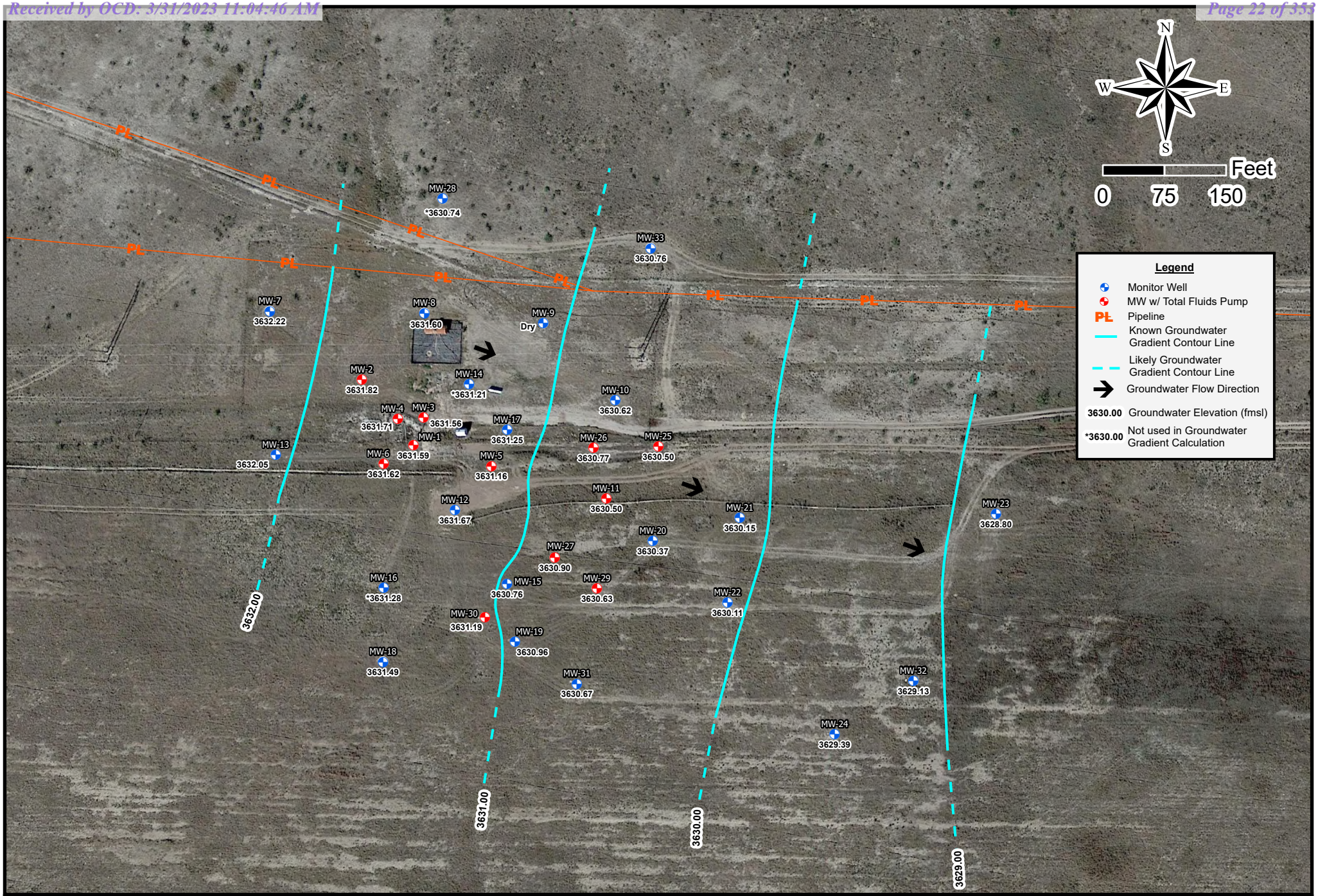
TALON LPE

Drafted: 3/30/2023
1 in = 150 ft
Drafted By: IJR

Hobbs Junction Mainline
SRS # 2003-00017, NMOCD REF. #nAPP2109528296
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
32.711580, -103.228061
Figure 2a - Groundwater Gradient Map (03/22-23/2022)



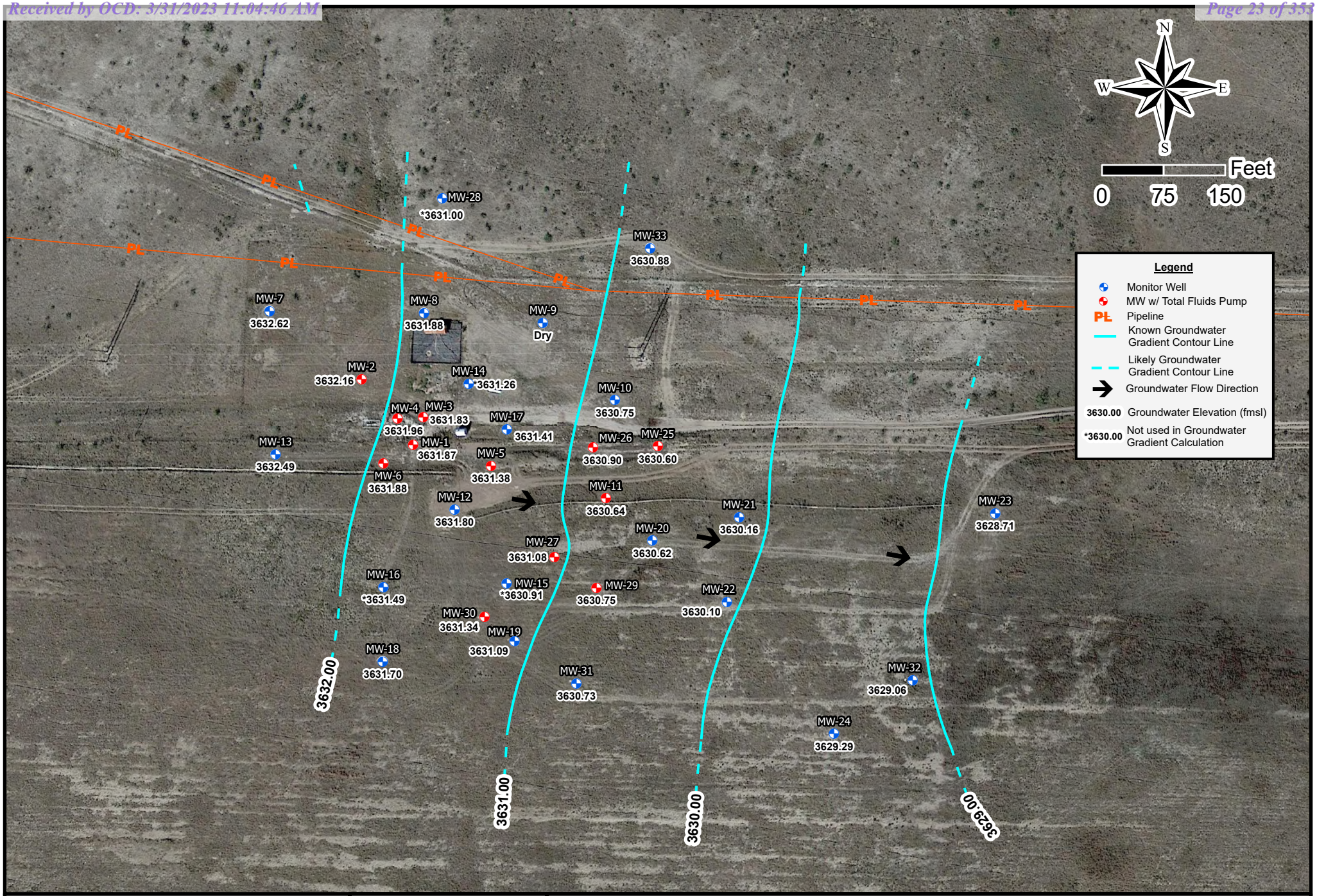
TALON LPE	Drafted: 3/7/2023 1 in = 150 ft Drafted By: JAI	Hobbs Junction Mainline SRS # 2003-00017, NMOCD REF. #nAPP2109528296 SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico 32.711580, -103.228061 Figure 2b - Groundwater Gradient Map (06/21/2022)



TALON LPE

Drafted: 3/30/2023
1 in = 150 ft
Drafted By: IJR

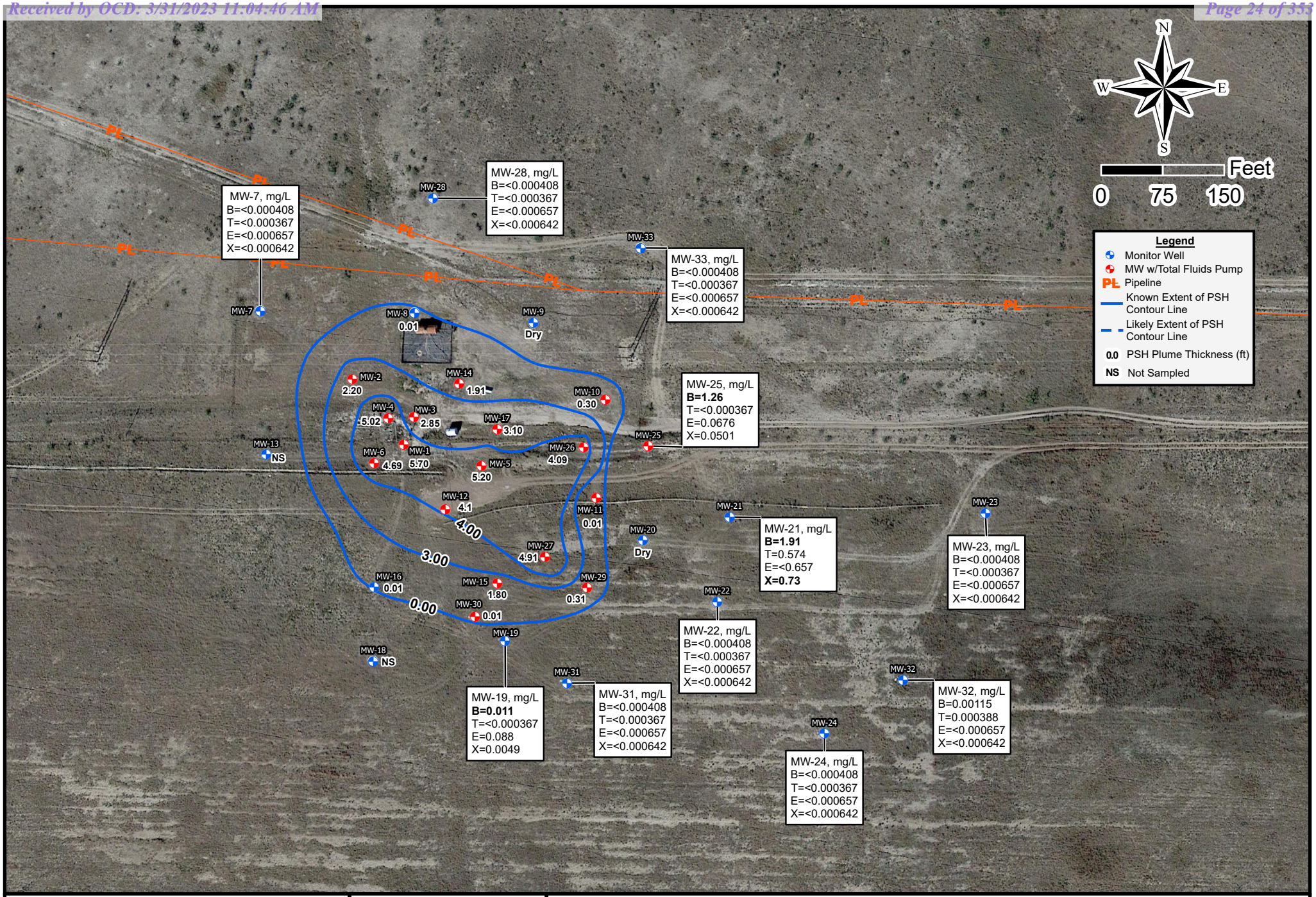
Hobbs Junction Mainline
SRS # 2003-00017, NMOCD REF. #nAPP2109528296
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
32.711580, -103.228061
Figure 2c - Groundwater Gradient Map (09/26/2022)



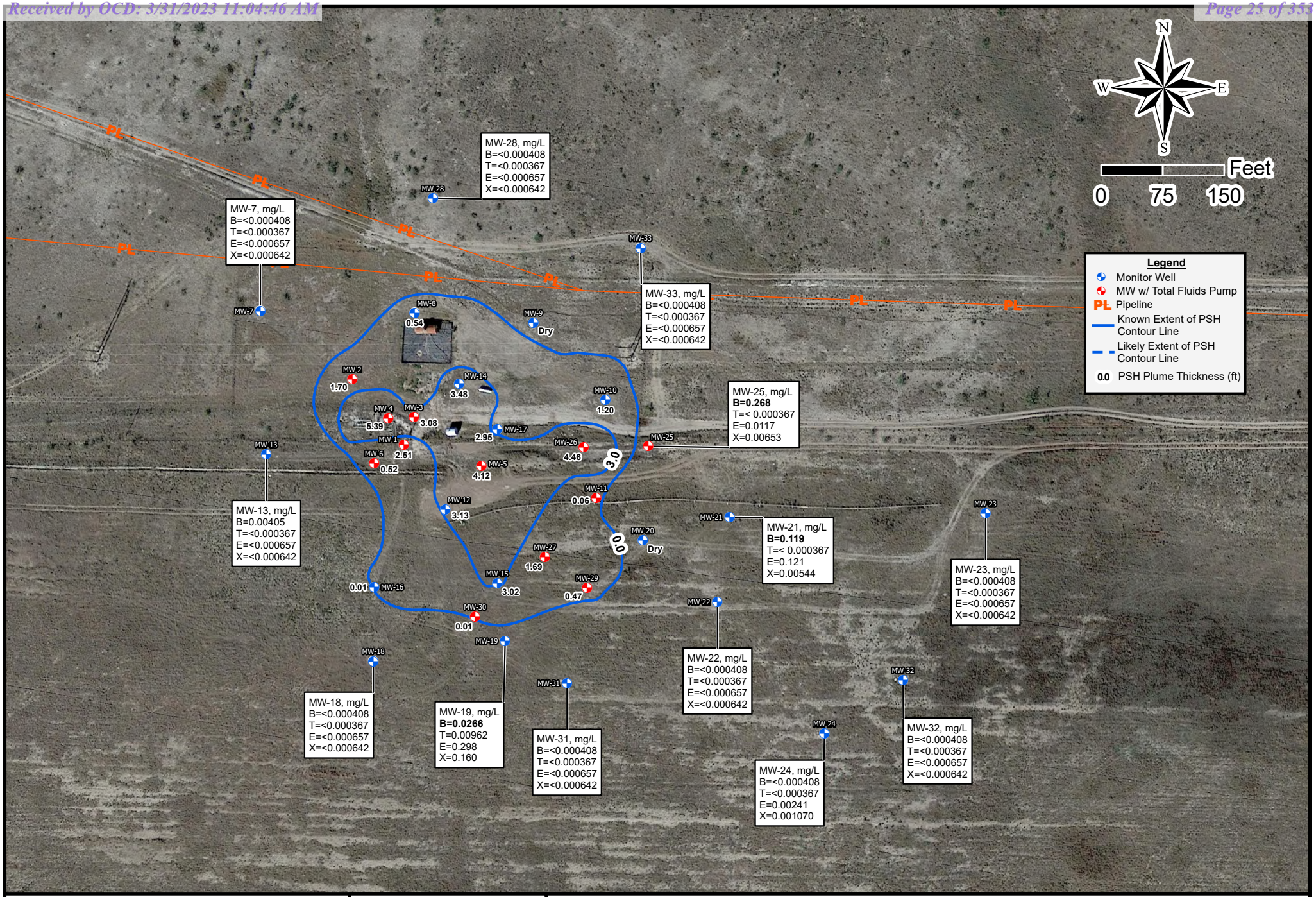
TALON LPE

Drafted: 3/30/2023
1 in = 150 ft
Drafted By: IJR

Hobbs Junction Mainline
SRS # 2003-00017, NMOCD REF. #nAPP2109528296
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
32.711580, -103.228061
Figure 2d - Groundwater Gradient Map (12/27/2022)



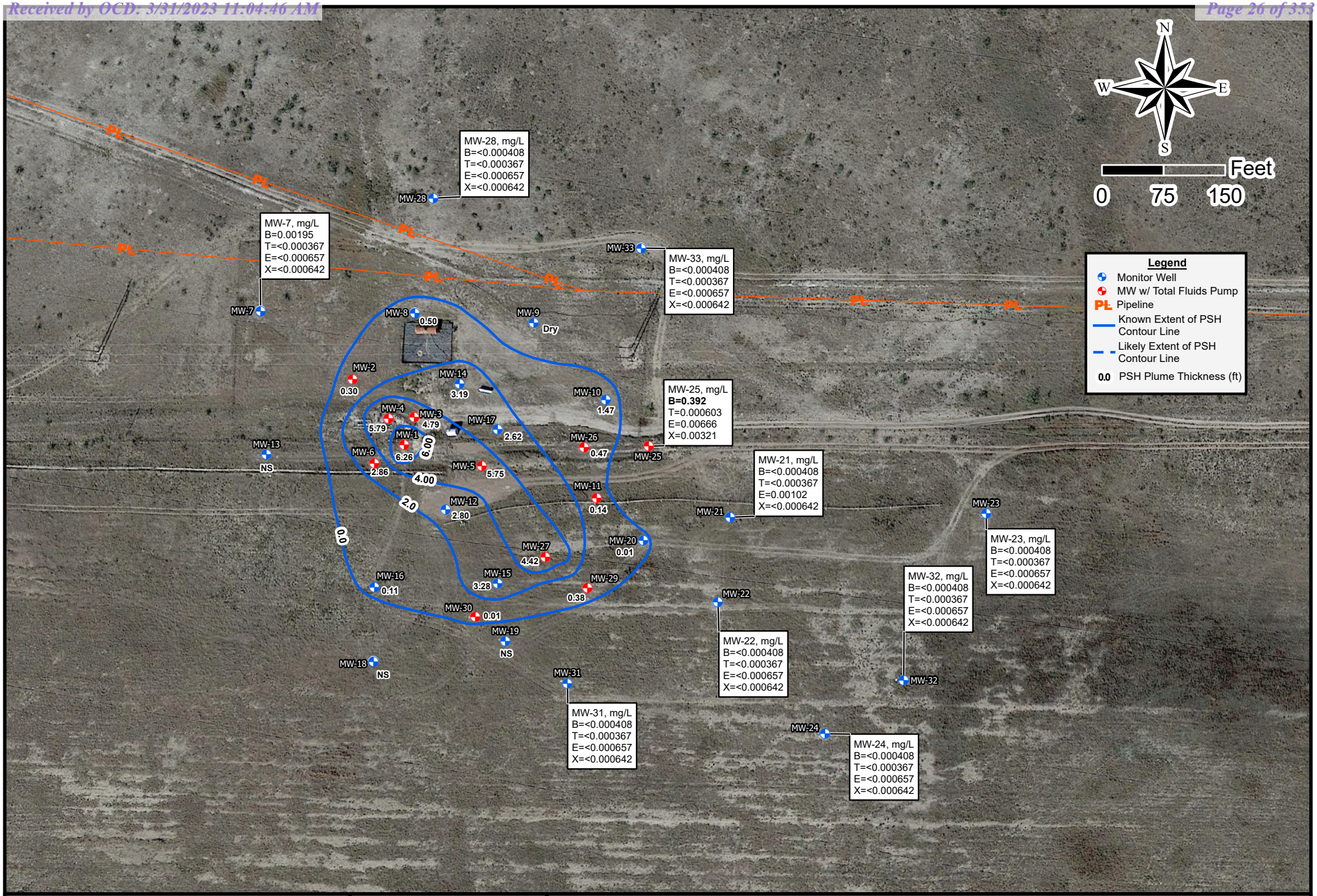
TALON LPE	Drafted: 5/31/2022 1 in = 150 ft Drafted By: IJR	Hobbs Junction Mainline SRS # 2003-00017, NMOCD REF. #nAPP2109528296 SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico 32.711580, -103.228061 Figure 3a - PSH Thickness and Groundwater Concentration Map (03/22-23/2022)



TALON LPE

Drafted: 3/7/2023
1 in = 150 ft
Drafted By: IJR

Hobbs Junction Mainline
SRS # 2003-00017, NMOCD REF. #nAPP2109528296
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
32.711580, -103.228061
Figure 3b - PSH Thickness and Groundwater Concentration Map (06/21-23/2022)



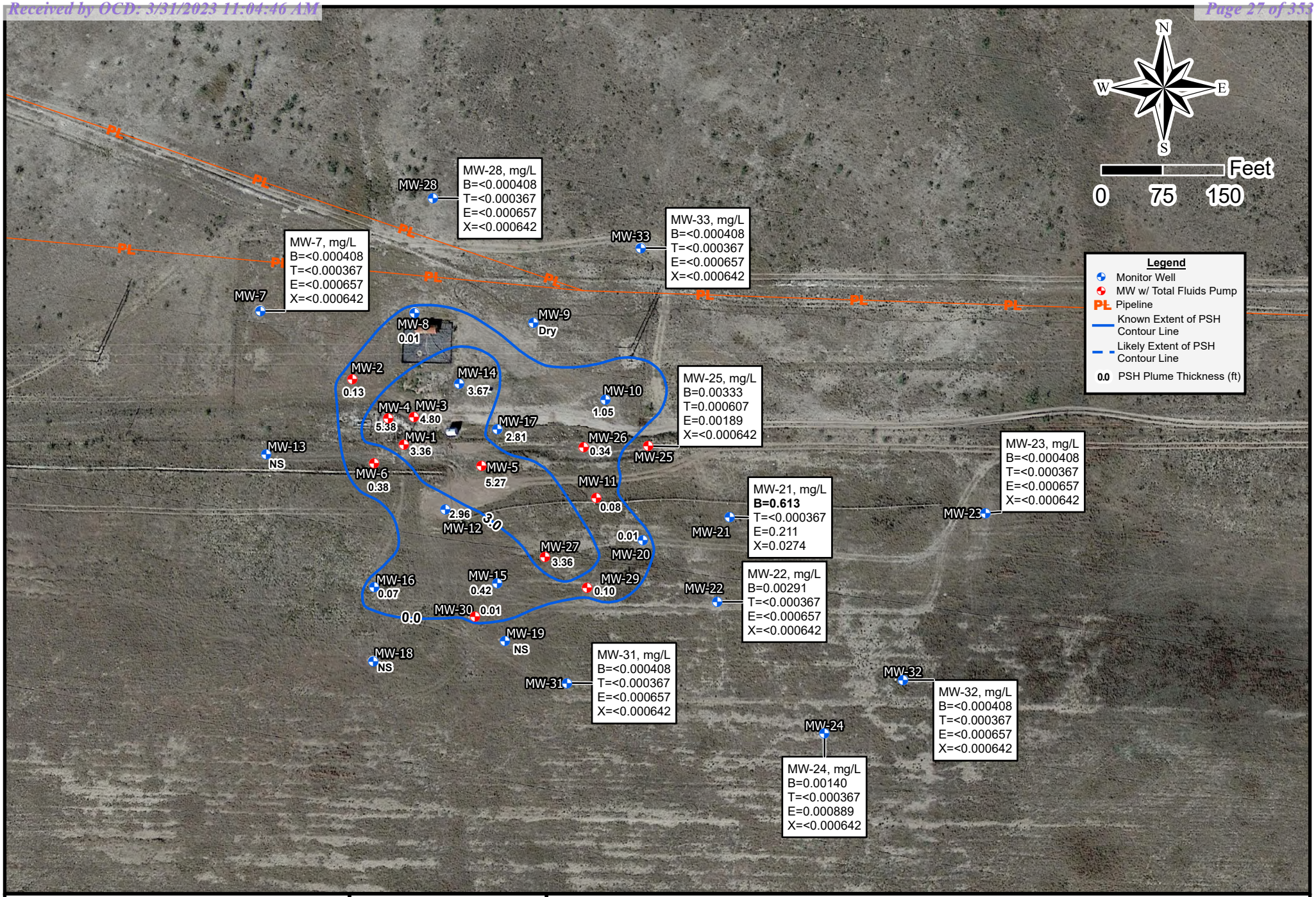
TALON LPE

Drafted: 3/7/2023

1 in = 150 ft

Drafted By: JAI

Hobbs Junction Mainline
SRS # 2003-00017, NMOCD REF. #nAPP2109528296
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
32.711580, -103.228061
Figure 3c - PSH Thickness and Groundwater Concentration Map (09/26-29/2022)



TALON LPE

Drafted: 3/7/2023
1 in = 150 ft
Drafted By: IJR

Hobbs Junction Mainline
SRS # 2003-00017, NMOCD REF. #nAPP2109528296
SW 1/4, SW 1/4, of Sec. 26, T18S, R37E, Lea County, New Mexico
32.711580, -103.228061
Figure 3d - PSH Thickness and Groundwater Concentration Map (12/27-29/2022)

APPENDIX B

Tables

Table 1 - Groundwater Gauging Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-1 4"	3678.5	39	54	03/09/2016	45.50	41.71	3.79	3636.16
				06/08/2016	45.79	41.71	4.08	3636.12
				09/21/2016	45.90	41.98	3.92	3635.87
				12/07/2016	44.08	42.81	1.27	3635.48
				03/22/2017	45.95	41.90	4.05	3635.93
				05/24/2017	45.98	42.17	3.81	3635.70
				09/18/2017	46.36	42.30	4.06	3635.53
				12/13/2017	46.02	42.52	3.50	3635.40
				03/29/2018	44.04	43.23	0.81	3635.14
				06/19/2018	47.23	42.64	4.59	3635.10
				09/18/2018	44.10	43.50	0.60	3634.90
				01/16/2019	46.29	42.80	3.49	3635.12
				03/19/2019	46.18	42.92	3.26	3635.04
				06/26/2019	44.42	43.50	0.92	3634.85
				09/20/2019	46.54	43.16	3.38	3634.78
				12/11/2019	47.89	43.02	4.87	3634.68
				03/23/2020	48.00	43.05	4.95	3634.63
				06/24/2020	45.95	44.06	1.89	3634.13
				09/11/2020	49.10	46.60	2.50	3631.49
				12/03/2020	48.80	44.51	4.29	3633.28
				03/24/2021	48.91	44.21	4.70	3633.51
				06/22/2021	47.45	45.63	1.82	3632.57
				09/21/2021	50.38	44.60	5.78	3632.95
				12/15/2021	51.26	45.19	6.07	3632.31
				03/22/2022	50.70	45.00	5.70	3632.56
				06/21/2022	48.62	46.11	2.51	3631.98
				09/26/2022	52.14	45.88	6.26	3631.59
				12/27/2022	49.44	46.08	3.36	3631.87
MW-2 4"	3679.47	38	53	03/09/2016	43.11	42.75	0.36	3636.66
				06/08/2016	43.60	42.84	0.76	3636.50
				09/21/2016	43.58	43.12	0.46	3636.27
				12/07/2016	43.49	43.48	0.01	3635.99
				03/22/2017	44.06	43.00	1.06	3636.30
				05/24/2017	43.81	43.47	0.34	3635.94
				09/18/2017	43.76	43.46	0.30	3635.96
				12/13/2017	43.74	43.64	0.10	3635.81
				03/29/2018	44.20	43.86	0.34	3635.55
				06/19/2018	44.72	43.82	0.90	3635.50
				09/18/2018	43.83	43.82	0.01	3635.65
				01/16/2019	44.80	43.85	0.95	3635.46
				03/19/2019	45.16	43.83	1.33	3635.42
				06/26/2019	45.70	43.95	1.75	3635.23
				09/20/2019	44.93	44.16	0.77	3635.18
				12/11/2019	45.20	44.30	0.90	3635.02
				03/23/2020	44.50	44.45	0.05	3635.01
				06/24/2020	45.08	45.01	0.07	3634.45
				09/10/2020	45.73	45.57	0.16	3633.87
				12/03/2020	46.72	45.80	0.92	3633.52
				03/24/2021	46.74	45.63	1.11	3633.66
				06/22/2021	48.23	46.38	1.85	3632.78
				09/21/2021	48.22	46.34	1.88	3632.82
				12/15/2021	49.21	46.56	2.65	3632.47
				03/22/2022	49.80	47.60	2.20	3631.51
				06/21/2022	48.75	47.05	1.70	3632.14
				09/26/2022	47.90	47.60	0.30	3631.82
				12/27/2022	47.42	47.29	0.13	3632.16
MW-3 4"	3679.81	39	54	03/09/2016	45.47	43.32	2.15	3636.14
				06/08/2016	47.00	43.03	3.97	3636.12
				09/21/2016	46.50	43.44	3.06	3635.87
				12/07/2016	44.84	44.26	0.58	3635.45
				03/22/2017	47.42	43.20	4.22	3635.91
				05/24/2017	47.03	43.46	3.57	3635.76
				09/18/2017	46.21	43.89	2.32	3635.54
				12/13/2017	45.35	44.25	1.10	3635.38
				03/29/2018	45.16	44.60	0.56	3635.12
				06/19/2018	47.85	44.09	3.76	3635.10
				09/18/2018	44.63	44.62	0.01	3635.19
				01/16/2019	45.38	44.65	0.73	3635.04
				03/19/2019	46.03	44.58	1.45	3634.99
				06/26/2019	45.13	44.95	0.18	3634.83
				09/20/2019	45.21	44.79	0.42	3634.95
				12/11/2019	46.78	44.88	1.90	3634.62
				03/23/2020	46.25	45.08	1.17	3634.54
				06/24/2020	OB	-	-	-
				09/10/2020	51.50	45.30	6.20	3633.49
				12/03/2020	48.28	46.22	2.06	3633.25
				03/24/2021	50.32	45.72	4.60	3633.33
				06/22/2021	52.02	46.29	5.73	3632.57
				09/21/2021	46.81	46.79	0.02	3633.02
				12/15/2021	52.30	46.58	5.72	3632.29
				03/22/2022	49.65	46.80	2.85	3632.54
				06/21/2022	50.45	47.37	3.08	3631.93
				09/26/2022	52.25	47.46	4.79	3631.56
				12/27/2022	51.99	47.19	4.80	3631.83

Table 1 - Groundwater Gauging Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-4 4"	3679.64	39	54	03/09/2016	45.58	43.88	1.70	3635.48
				06/08/2016	46.06	42.82	3.24	3636.29
				09/21/2016	46.46	43.03	3.43	3636.04
				12/07/2016	44.81	43.81	1.00	3635.66
				03/22/2017	46.60	42.97	3.63	3636.07
				05/24/2017	47.03	43.32	3.71	3635.71
				09/18/2017	47.06	43.31	3.75	3635.71
				12/13/2017	46.95	43.44	3.51	3635.62
				03/29/2018	48.05	44.58	3.47	3634.49
				06/19/2018	48.05	43.65	4.40	3635.26
				09/18/2018	43.89	43.88	0.01	3635.76
				01/16/2019	46.95	43.85	3.10	3635.28
				03/19/2019	44.74	43.75	0.99	3635.73
				06/26/2019	47.37	44.10	3.27	3635.00
				09/20/2019	46.80	44.05	2.75	3635.14
				12/11/2019	48.44	44.13	4.31	3634.80
				03/23/2020	47.30	44.34	2.96	3634.81
				06/24/2020	47.73	44.96	2.77	3634.22
				09/10/2020	50.50	45.05	5.45	3633.69
				12/03/2020	50.15	45.46	4.69	3633.41
				03/24/2021	50.56	45.28	5.28	3633.49
				06/22/2021	50.95	46.14	4.81	3632.71
				09/21/2021	48.95	46.10	2.85	3633.07
				12/15/2021	52.01	46.27	5.74	3632.42
				03/22/2022	51.12	46.10	5.02	3632.71
				06/21/2022	52.04	46.65	5.39	3632.10
				09/26/2022	52.76	46.97	5.79	3631.71
				12/27/2022	52.17	46.79	5.38	3631.96
MW-5 4"	3679.26	40	55	03/09/2016	46.00	43.20	2.80	3635.60
				06/08/2016	47.43	42.85	4.58	3635.65
				09/21/2016	47.23	43.27	3.96	3635.34
				12/07/2016	45.38	44.22	1.16	3634.85
				03/22/2017	47.60	43.10	4.50	3635.42
				05/24/2017	47.45	43.45	4.00	3635.15
				09/18/2017	47.18	43.78	3.40	3634.92
				12/13/2017	47.02	43.93	3.09	3634.82
				03/29/2018	45.89	44.49	1.40	3634.54
				06/19/2018	47.53	44.12	3.41	3634.58
				09/18/2018	46.55	44.50	2.05	3634.42
				01/16/2019	48.62	43.91	4.71	3634.57
				03/19/2019	48.20	44.09	4.11	3634.49
				06/26/2019	46.37	44.84	1.53	3634.17
				09/20/2019	47.72	44.37	3.35	3634.34
				12/11/2019	49.20	44.31	4.89	3634.14
				03/23/2020	49.55	44.33	5.22	3634.07
				06/24/2020	49.62	44.76	4.86	3633.70
				09/11/2020	50.30	45.25	5.05	3633.18
				12/03/2020	OB	-	-	-
				03/24/2021	OB	-	-	-
				06/22/2021	OB	-	-	-
				09/21/2021	OB	-	-	-
				09/30/2021	51.10	46.00	5.10	3632.42
				12/15/2021	52.00	46.44	5.56	3631.90
				03/22/2022	51.50	46.30	5.20	3632.10
				06/21/2022	51.12	47.00	4.12	3631.58
				09/26/2022	52.90	47.15	5.75	3631.16
				12/27/2022	52.28	47.01	5.27	3631.38
MW-6 4"	3680.63	40	55	03/09/2016	45.49	44.17	1.32	3636.24
				06/08/2016	47.45	43.80	3.65	3636.23
				09/21/2016	47.18	44.15	3.03	3635.98
				12/07/2016	45.51	44.94	0.57	3635.60
				03/22/2017	47.90	43.95	3.95	3636.03
				05/24/2017	47.10	44.40	2.70	3635.78
				09/18/2017	46.92	44.60	2.32	3635.65
				12/13/2017	45.80	44.95	0.85	3635.54
				03/29/2018	45.75	45.28	0.47	3635.27
				06/19/2018	47.85	44.99	2.86	3635.17
				09/18/2018	47.61	45.01	2.60	3635.19
				01/16/2019	47.65	45.00	2.65	3635.19
				03/19/2019	48.09	45.00	3.09	3635.12
				06/26/2019	45.63	45.60	0.03	3635.03
				09/20/2019	48.29	45.25	3.04	3634.88
				12/11/2019	48.35	45.20	3.15	3634.91
				03/23/2020	46.77	45.77	1.00	3634.69
				06/24/2020	47.03	46.31	0.72	3634.20
				09/11/2020	47.95	44.30	3.65	3635.73
				12/03/2020	51.18	46.53	4.65	3633.33
				03/24/2021	50.87	46.47	4.40	3633.43
				06/22/2021	52.10	47.21	4.89	3632.61
				09/21/2021	48.36	47.48	0.88	3633.00
				12/15/2021	52.20	47.49	4.71	3632.36
				03/22/2022	51.90	47.21	4.69	3632.65
				06/21/2022	49.05	48.53	0.52	3632.01
				09/26/2022	51.40	48.54	2.86	3631.62
				12/27/2022	49.07	48.69	0.38	3631.88

Table 1 - Groundwater Gauging Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-7 2"	3679.85	38	53	03/09/2016	42.67	-	-	3637.18
				06/08/2016	42.71	-	-	3637.14
				09/21/2016	42.88	-	-	3636.97
				12/07/2016	43.10	-	-	3636.75
				03/22/2017	43.02	-	-	3636.83
				05/24/2017	43.08	-	-	3636.77
				09/18/2017	43.28	-	-	3636.57
				12/13/2017	43.36	-	-	3636.49
				03/29/2018	43.57	-	-	3636.28
				06/19/2018	43.73	-	-	3636.12
				09/18/2018	43.78	-	-	3636.07
				01/14/2019	43.76	-	-	3636.09
				03/19/2019	43.81	-	-	3636.04
				06/26/2019	43.97	-	-	3635.88
				09/20/2019	44.09	-	-	3635.76
				12/11/2019	44.19	-	-	3635.66
				03/23/2020	44.25	-	-	3635.60
				06/24/2020	44.91	-	-	3634.94
				09/10/2020	45.50	-	-	3634.35
				12/03/2020	45.91	-	-	3633.94
				03/23/2021	45.67	-	-	3634.18
				06/21/2021	46.65	-	-	3633.20
				09/21/2021	46.08	-	-	3633.77
				12/15/2021	46.90	-	-	3632.95
				03/22/2022	46.51	-	-	3633.34
				06/21/2022	47.27	-	-	3632.58
				09/26/2022	47.63	-	-	3632.22
				12/27/2022	47.23	-	-	3632.62
MW-8 2"	3679.07	35	50	03/09/2016	43.74	42.65	1.09	3636.24
				06/08/2016	43.72	42.76	0.96	3636.15
				09/21/2016	44.22	42.94	1.28	3635.92
				12/07/2016	44.80	43.19	1.61	3635.61
				03/22/2017	43.99	42.98	1.01	3635.92
				05/24/2017	43.58	43.43	0.15	3635.62
				09/18/2017	43.59	43.46	0.13	3635.59
				12/13/2017	43.59	-	-	3635.48
				03/29/2018	43.96	43.75	0.21	3635.29
				06/19/2018	44.25	43.82	0.43	3635.18
				09/18/2018	44.32	43.92	0.40	3635.08
				01/16/2019	44.25	43.85	0.40	3635.15
				03/19/2019	44.37	43.91	0.46	3635.08
				06/26/2019	44.65	44.06	0.59	3634.91
				09/20/2019	44.79	44.19	0.60	3634.78
				12/11/2019	45.07	44.25	0.82	3634.68
				03/23/2020	45.05	44.32	0.73	3634.63
				06/24/2020	45.65	44.80	0.85	3634.13
				09/10/2020	46.05	45.33	0.72	3633.62
				12/03/2020	46.52	45.68	0.84	3633.25
				03/24/2021	46.36	45.61	0.75	3633.34
				06/22/2021	47.11	46.30	0.81	3632.64
				09/21/2021	46.40	46.08	0.32	3632.94
				12/15/2021	47.41	46.59	0.82	3632.34
				03/22/2022	46.51	46.50	0.01	3632.57
				06/21/2022	47.60	47.06	0.54	3631.92
				09/26/2022	47.89	47.39	0.50	3631.60
				12/27/2022	47.20	47.19	0.01	3631.88
MW-9 2"	3678.76	37	52	03/09/2016	45.26	43.00	2.26	3635.39
				06/08/2016	45.72	42.92	2.80	3635.38
				09/21/2016	46.00	43.17	2.83	3635.12
				12/07/2016	46.42	43.49	2.93	3634.79
				03/22/2017	46.05	43.12	2.93	3635.16
				05/24/2017	44.30	43.90	0.40	3634.79
				09/18/2017	44.27	43.90	0.37	3634.80
				12/13/2017	44.39	44.04	0.35	3634.66
				03/29/2018	44.67	44.20	0.47	3634.48
				06/19/2018	45.43	44.20	1.23	3634.36
				09/18/2018	44.25	44.24	0.01	3634.52
				01/14/2019	46.20	44.13	2.07	3634.29
				03/19/2019	46.10	44.18	1.92	3634.26
				06/26/2019	46.26	44.32	1.94	3634.12
				09/20/2019	45.76	44.38	1.38	3634.15
				12/11/2019	45.90	44.46	1.44	3634.06
				03/23/2020	46.40	44.53	1.87	3633.92
				06/24/2020	45.92	44.88	1.04	3633.71
				09/10/2020	46.30	45.40	0.90	3633.21
				12/03/2020	45.80	45.68	0.12	3633.06
				03/24/2021	45.90	45.68	0.22	3633.04
				06/22/2021	NG	-	-	-
				09/21/2021	DR	-	-	-
				12/15/2021	DR	-	-	-
				03/22/2022	DR	-	-	-
				06/21/2022	DR	-	-	-
				09/26/2022	DR	-	-	-
				12/27/2022	DR	-	-	-

Table 1 - Groundwater Gauging Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-10 2"	3678.36	37	52	03/09/2016	45.35	43.10	2.25	3634.89
				06/08/2016	44.52	43.25	1.27	3634.90
				09/21/2016	45.02	43.47	1.55	3634.63
				12/07/2016	45.53	43.82	1.71	3634.26
				03/22/2017	45.15	43.41	1.74	3634.66
				05/24/2017	44.85	43.95	0.90	3634.26
				09/18/2017	44.33	44.06	0.27	3634.26
				12/13/2017	44.42	44.18	0.24	3634.14
				03/29/2018	44.69	44.42	0.27	3633.90
				06/19/2018	44.70	44.40	0.30	3633.91
				09/18/2018	44.78	44.59	0.19	3633.74
				01/16/2019	45.90	44.25	1.65	3633.84
				03/19/2019	45.53	44.43	1.10	3633.75
				06/26/2019	46.33	44.48	1.85	3633.57
				09/20/2019	45.29	44.79	0.50	3633.49
				12/11/2019	45.77	44.83	0.94	3633.37
				03/23/2020	45.70	44.87	0.83	3633.35
				06/24/2020	46.54	45.20	1.34	3632.94
				09/10/2020	47.25	45.55	1.70	3632.53
				12/03/2020	47.52	45.87	1.65	3632.22
				03/24/2021	47.56	45.88	1.68	3632.20
				06/22/2021	48.36	46.36	2.00	3631.67
				09/21/2021	48.03	46.34	1.69	3631.74
				12/15/2021	48.75	46.66	2.09	3631.36
				03/22/2022	47.11	46.81	0.30	3631.5
				06/21/2022	48.40	47.20	1.20	3630.96
				09/26/2022	48.97	47.50	1.47	3630.62
				12/27/2022	48.49	47.44	1.05	3630.75
MW-11 4"	3678.03	36	51	03/09/2016	43.29	43.26	0.03	3634.77
				06/08/2016	44.64	43.06	1.58	3634.71
				09/21/2016	43.60	43.54	0.06	3634.48
				12/07/2016	44.01	-	-	3634.02
				03/22/2017	43.67	43.48	0.19	3634.52
				05/24/2017	43.80	43.72	0.08	3634.30
				09/18/2017	43.99	43.94	0.05	3634.08
				12/13/2017	44.13	44.08	0.05	3633.94
				03/29/2018	44.44	44.35	0.09	3633.67
				06/19/2018	44.43	44.32	0.11	3633.69
				09/18/2018	44.45	44.44	0.01	3633.59
				01/16/2019	44.50	44.37	0.13	3633.64
				03/19/2019	44.75	44.36	0.39	3633.61
				06/26/2019	44.60	44.57	0.03	3633.46
				09/20/2019	44.91	44.59	0.32	3633.39
				12/11/2019	45.93	44.64	1.29	3633.18
				03/23/2020	45.30	44.80	0.50	3633.15
				06/24/2020	45.32	45.10	0.22	3632.89
				09/11/2020	46.66	46.50	0.16	3631.50
				12/03/2020	46.02	45.88	0.14	3632.13
				03/24/2021	46.25	45.90	0.35	3632.07
				06/22/2021	46.51	46.46	0.05	3631.56
				09/21/2021	46.76	46.74	0.02	3631.29
				12/15/2021	46.76	46.72	0.04	3631.30
				03/22/2022	47.11	47.10	0.01	3630.93
				06/21/2022	47.15	47.09	0.06	3630.93
				09/26/2022	47.65	47.51	0.14	3630.50
				12/27/2022	47.46	47.38	0.08	3630.64
MW-12 4"	3679.63	36	51	03/09/2016	45.68	43.58	2.10	3635.70
				06/08/2016	47.40	43.20	4.20	3635.74
				09/21/2016	46.85	43.70	3.15	3635.41
				12/07/2016	45.55	44.56	0.99	3634.91
				03/22/2017	47.70	43.48	4.22	3635.45
				05/24/2017	46.80	43.95	2.85	3635.21
				09/18/2017	46.78	44.16	2.62	3635.04
				12/13/2017	47.24	44.22	3.02	3634.91
				03/29/2018	45.70	44.83	0.87	3634.66
				06/19/2018	46.80	44.59	2.21	3634.68
				09/18/2018	44.87	44.86	0.01	3634.77
				01/16/2019	47.90	44.35	3.55	3634.69
				03/19/2019	46.96	44.65	2.31	3634.60
				06/26/2019	46.17	45.00	1.17	3634.44
				09/20/2019	46.59	44.76	1.83	3634.57
				12/11/2019	49.40	44.65	4.75	3634.20
				03/23/2020	45.80	44.85	0.95	3634.62
				06/24/2020	47.05	45.74	1.31	3633.67
				09/11/2020	46.50	46.30	0.20	3633.30
				12/03/2020	47.20	46.63	0.57	3632.91
				03/24/2021	50.79	45.92	4.87	3632.91
				06/22/2021	49.91	47.23	2.68	3631.96
				09/21/2021	50.41	47.65	2.76	3631.52
				12/15/2021	50.26	46.90	3.36	3632.18
				03/22/2022	50.70	46.60	4.10	3632.35
				06/21/2022	50.30	47.17	3.13	3631.94
				09/26/2022	50.30	47.50	2.80	3631.67
				12/27/2022	50.30	47.34	2.96	3631.80

Table 1 - Groundwater Gauging Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-13 2"	3681.42	36.3	51.3	03/09/2016	44.45	-	-	3636.97
				06/08/2016	44.50	-	-	3636.92
				09/21/2016	44.69	-	-	3636.73
				12/07/2016	44.93	-	-	3636.49
				03/22/2017	44.81	-	-	3636.61
				05/24/2017	44.90	-	-	3636.52
				09/18/2017	45.05	-	-	3636.37
				12/13/2017	45.17	-	-	3636.25
				03/29/2018	45.38	-	-	3636.04
				06/19/2018	45.59	-	-	3635.83
				09/18/2018	45.56	-	-	3635.86
				01/14/2019	45.54	-	-	3635.88
				03/19/2019	45.60	-	-	3635.82
				06/26/2019	45.76	-	-	3635.66
				09/20/2019	45.87	-	-	3635.55
				12/11/2019	45.97	-	-	3635.45
				03/23/2020	46.00	-	-	3635.42
				06/24/2020	46.65	-	-	3634.77
				09/10/2020	47.30	-	-	3634.12
				12/03/2020	47.62	-	-	3633.80
				03/23/2021	47.43	-	-	3633.99
				06/22/2021	48.48	-	-	3632.94
				09/21/2021	47.79	-	-	3633.63
				12/15/2021	48.70	-	-	3632.72
				03/22/2022	48.23	-	-	3633.19
				06/21/2022	48.92	-	-	3632.50
				09/26/2022	49.37	-	-	3632.05
				12/27/2022	48.93	-	-	3632.49
MW-14 4"	3679	36	51	03/09/2016	44.65	43.15	1.50	3635.60
				06/08/2016	46.78	42.72	4.06	3635.61
				09/21/2016	45.15	43.36	1.79	3635.34
				12/07/2016	44.33	43.99	0.34	3634.95
				03/22/2017	47.10	42.95	4.15	3635.37
				05/24/2017	45.45	43.76	1.69	3634.96
				09/18/2017	44.99	43.81	1.18	3635.00
				12/13/2017	44.58	44.05	0.53	3634.86
				03/29/2018	44.63	44.33	0.30	3634.62
				06/19/2018	45.25	44.26	0.99	3634.58
				09/18/2018	44.83	44.44	0.39	3634.50
				01/16/2019	46.30	44.10	2.20	3634.54
				03/19/2019	48.10	43.83	4.27	3634.47
				06/26/2019	45.08	44.60	0.48	3634.32
				09/20/2019	46.77	44.31	2.46	3634.28
				12/11/2019	48.44	44.20	4.24	3634.10
				03/23/2020	47.50	44.44	3.06	3634.06
				06/24/2020	46.42	45.20	1.22	3633.60
				09/10/2020	46.40	45.83	0.57	3633.08
				12/03/2020	46.69	46.14	0.55	3632.77
				03/24/2021	48.93	45.66	3.27	3632.80
				06/22/2021	48.93	46.37	2.56	3632.21
				09/21/2021	49.81	46.01	3.80	3632.36
				12/15/2021	49.03	46.82	2.21	3631.82
				03/22/2022	48.30	46.39	1.91	3632.29
				06/21/2022	50.45	46.97	3.48	3631.46
				09/26/2022	50.45	47.26	3.19	3631.21
				12/27/2022	50.80	47.13	3.67	3631.26
MW-15 4"	3674.92	34	49	03/09/2016	40.82	39.72	1.10	3635.02
				06/08/2016	42.91	39.24	3.67	3635.07
				09/21/2016	41.58	39.84	1.74	3634.79
				12/07/2016	41.06	40.53	0.53	3634.30
				03/22/2017	42.70	39.55	3.15	3634.85
				05/24/2017	42.65	39.90	2.75	3634.57
				09/18/2017	42.87	40.03	2.84	3634.42
				12/13/2017	43.17	40.12	3.05	3634.30
				03/29/2018	41.95	40.71	1.24	3634.01
				06/19/2018	43.52	40.35	3.17	3634.05
				09/18/2018	40.69	40.68	0.01	3634.24
				01/16/2019	44.25	40.22	4.03	3634.04
				03/19/2019	43.98	40.37	3.61	3633.95
				06/27/2019	42.85	40.75	2.10	3633.82
				09/20/2019	44.34	40.59	3.75	3633.71
				12/11/2019	43.98	40.80	3.18	3633.60
				03/23/2020	44.85	40.68	4.17	3633.55
				06/24/2020	43.57	41.40	2.17	3633.16
				09/11/2020	43.05	42.05	1.00	3632.70
				12/03/2020	42.81	42.50	0.31	3632.37
				12/06/2020	42.85	42.43	0.42	3632.42
				03/24/2021	45.31	41.94	3.37	3632.42
				06/22/2021	43.73	42.95	0.78	3631.84
				09/21/2021	44.96	43.40	1.56	3631.26
				12/15/2021	45.33	43.04	2.29	3631.50
				03/22/2022	44.70	42.90	1.80	3631.72
				06/21/2022	46.27	43.25	3.02	3631.17
				09/26/2022	46.90	43.62	3.28	3630.76
				12/27/2022	44.36	43.94	0.42	3630.91

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Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-16 4"	3676.86	33	48	03/09/2016	43.81	40.61	3.20	3635.72
				06/08/2016	43.60	40.70	2.90	3635.68
				09/21/2016	44.10	40.89	3.21	3635.44
				12/07/2016	44.20	41.31	2.89	3635.07
				03/22/2017	43.75	40.90	2.85	3635.49
				05/24/2017	44.30	41.10	3.20	3635.23
				09/18/2017	41.30	41.24	0.06	3635.61
				12/13/2017	41.87	41.83	0.04	3635.02
				03/29/2018	42.18	42.08	0.10	3634.76
				06/19/2018	42.28	42.11	0.17	3634.72
				09/18/2018	42.19	42.18	0.01	3634.68
				01/16/2019	42.26	42.12	0.14	3634.72
				03/19/2019	42.24	42.18	0.06	3634.67
				06/27/2019	42.57	42.36	0.21	3634.47
				09/20/2019	42.63	42.42	0.21	3634.41
				12/11/2019	42.79	42.52	0.27	3634.30
				03/23/2020	42.77	42.60	0.17	3634.23
				06/24/2020	43.20	43.09	0.11	3633.75
				09/11/2020	43.70	43.60	0.10	3633.24
				12/03/2020	44.03	43.91	0.12	3632.93
				03/23/2021	43.84	43.77	0.07	3633.08
				06/22/2021	44.66	44.64	0.02	3632.22
				09/21/2021	45.15	45.13	0.02	3631.73
				12/15/2021	44.96	44.88	0.08	3631.97
				03/22/2022	44.60	44.59	0.01	3632.27
				06/21/2022	45.16	45.15	0.01	3631.71
				09/26/2022	45.67	45.56	0.11	3631.28
				12/27/2022	45.43	45.36	0.07	3631.49
MW-17 4"	3679.01	36	51	03/09/2016	46.20	43.18	3.02	3635.33
				06/08/2016	48.02	42.83	5.19	3635.32
				09/21/2016	48.51	43.12	5.39	3635.00
				12/07/2016	45.56	44.14	1.42	3634.64
				03/22/2017	47.70	43.20	4.50	3635.07
				05/24/2017	48.00	43.58	4.42	3634.70
				09/18/2017	47.00	43.81	3.19	3634.67
				12/13/2017	45.65	44.10	1.55	3634.65
				03/29/2018	45.55	44.54	1.01	3634.30
				06/19/2018	46.75	44.14	2.61	3634.44
				09/18/2018	45.55	45.54	0.01	3633.47
				01/16/2019	47.25	44.05	3.20	3634.43
				03/19/2019	47.04	44.20	2.84	3634.34
				06/26/2019	44.79	44.70	0.09	3634.30
				09/20/2019	46.89	44.43	2.46	3634.17
				12/11/2019	48.87	44.30	4.57	3633.96
				03/23/2020	47.87	44.54	3.33	3633.92
				06/24/2020	47.21	45.32	1.89	3633.38
				09/10/2020	46.60	46.00	0.60	3632.91
				12/03/2020	47.00	46.37	0.63	3632.54
				03/24/2021	50.13	45.68	4.45	3632.60
				06/22/2021	47.10	46.31	0.79	3632.57
				09/21/2021	50.50	47.16	3.34	3631.30
				12/15/2021	49.95	46.60	3.35	3631.86
				03/22/2022	49.60	46.50	3.10	3632.00
				06/21/2022	49.95	47.00	2.95	3631.52
				09/26/2022	49.95	47.33	2.62	3631.25
				12/27/2022	49.95	47.14	2.81	3631.41
MW-18 2"	3675.68	30	45	03/09/2016	39.79	-	-	3635.89
				06/08/2016	39.78	-	-	3635.90
				09/21/2016	40.00	-	-	3635.68
				12/07/2016	40.31	-	-	3635.37
				03/22/2017	41.13	-	-	3634.55
				05/24/2017	40.21	-	-	3635.47
				09/18/2017	40.39	-	-	3635.29
				12/13/2017	40.50	-	-	3635.18
				03/29/2018	40.75	-	-	3634.93
				06/19/2018	40.88	-	-	3634.80
				09/18/2018	NL	-	-	-
				03/19/2019	40.91	-	-	3634.77
				06/27/2019	41.07	-	-	3634.61
				09/20/2019	41.15	-	-	3634.53
				12/11/2019	41.28	-	-	3634.40
				03/23/2020	41.34	-	-	3634.34
				06/24/2020	41.76	-	-	3633.92
				09/11/2020	42.27	-	-	3633.41
				12/03/2020	42.59	-	-	3633.09
				03/23/2021	42.53	-	-	3633.15
				06/22/2021	43.25	-	-	3632.43
				09/21/2021	42.96	-	-	3632.72
				12/15/2021	43.30	-	-	3632.38
				03/22/2022	45.30	-	-	3630.38
				06/21/2022	43.77	-	-	3631.91
				09/26/2022	44.19	-	-	3631.49
				12/27/2022	43.98	-	-	3631.70

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Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-19 2"	3674.96	31	46	03/09/2016	40.30	39.70	0.60	3635.16
				06/08/2016	40.78	39.60	1.18	3635.17
				09/21/2016	40.15	40.08	0.07	3634.87
				12/07/2016	40.52	40.48	0.04	3634.47
				03/22/2017	40.70	40.00	0.70	3634.84
				05/24/2017	40.45	40.20	0.25	3634.72
				09/18/2017	40.40	-	-	3634.56
				12/13/2017	40.52	-	-	3634.44
				03/29/2018	40.78	-	-	3634.18
				06/19/2018	40.73	-	-	3634.23
				09/18/2018	40.88	-	-	3634.08
				01/16/2019	41.77	-	-	3633.19
				03/19/2019	40.88	-	-	3634.08
				06/27/2019	41.15	41.03	0.12	3633.91
				09/20/2019	41.21	41.11	0.10	3633.83
				12/11/2019	41.39	41.20	0.19	3633.73
				03/23/2020	41.32	41.25	0.07	3633.70
				06/24/2020	41.96	41.60	0.36	3633.30
				09/10/2020	42.40	42.03	0.37	3632.87
				12/03/2020	42.93	42.30	0.63	3632.56
				12/06/2020	42.80	42.30	0.50	3632.58
				03/24/2021	42.44	42.40	0.04	3632.55
				06/28/2021	43.05	43.04	0.01	3631.92
				09/21/2021	42.96	-	-	3632.00
				12/15/2021	43.25	-	-	3631.71
				03/22/2022	43.18	-	-	3631.78
				06/21/2022	43.59	-	-	3631.37
				09/26/2022	44.00	-	-	3630.96
				12/27/2022	43.87	-	-	3631.09
MW-20 2"	3674.38	31	46	03/09/2016	40.82	39.72	1.10	3634.48
				06/08/2016	43.39	39.18	4.21	3634.51
				09/21/2016	44.17	39.52	4.65	3634.09
				12/07/2016	44.08	39.99	4.09	3633.72
				03/22/2017	44.10	39.50	4.60	3634.12
				05/24/2017	43.96	39.75	4.21	3633.94
				09/18/2017	43.82	40.00	3.82	3633.75
				12/13/2017	46.00	40.15	5.85	3633.26
				03/29/2018	46.00	39.35	6.65	3633.93
				06/19/2018	41.82	40.28	1.54	3633.85
				09/18/2018	40.43	40.42	0.01	3633.96
				01/16/2019	41.60	40.35	1.25	3633.82
				03/19/2019	41.72	40.38	1.34	3633.78
				06/26/2019	42.10	40.47	1.63	3633.64
				09/20/2019	41.53	40.54	0.99	3633.68
				12/11/2019	41.50	40.88	0.62	3633.40
				03/23/2020	42.17	40.73	1.44	3633.41
				06/24/2020	42.02	41.04	0.98	3633.18
				09/10/2020	42.10	41.45	0.65	3632.82
				12/03/2020	45.05	44.72	0.33	3629.61
				03/23/2021	DR	-	-	-
				06/28/2021	44.05	44.04	0.01	3630.34
				09/21/2021	DR	-	-	-
				12/15/2021	DR	-	-	-
				03/22/2022	DR	-	-	-
				06/21/2022	DR	-	-	-
				09/26/2022	44.02	44.01	0.01	3630.37
				12/27/2022	43.77	43.76	0.01	3630.62
MW-21 2"	3674.38	23	53	03/09/2016	40.21	-	-	3634.17
				06/08/2016	40.15	-	-	3634.23
				09/21/2016	40.40	-	-	3633.98
				12/07/2016	40.75	-	-	3633.63
				03/22/2017	40.54	-	-	3633.84
				05/24/2017	40.64	-	-	3633.74
				09/18/2017	40.79	-	-	3633.59
				12/13/2017	40.98	-	-	3633.40
				03/29/2018	41.21	-	-	3633.17
				06/19/2018	41.20	-	-	3633.18
				09/18/2018	43.34	-	-	3631.04
				01/16/2019	41.30	-	-	3633.08
				03/19/2019	41.40	-	-	3632.98
				06/27/2019	41.53	-	-	3632.85
				09/20/2019	41.83	-	-	3632.55
				12/11/2019	41.76	-	-	3632.62
				03/23/2020	41.82	-	-	3632.56
				06/24/2020	42.09	-	-	3632.29
				09/11/2020	42.44	-	-	3631.94
				12/03/2020	42.65	-	-	3631.73
				03/23/2021	42.78	-	-	3631.60
				06/22/2021	43.24	-	-	3631.14
				09/21/2021	43.26	-	-	3631.12
				12/15/2021	43.47	-	-	3630.91
				03/22/2022	43.54	-	-	3630.84
				06/21/2022	43.87	-	-	3630.51
				09/26/2022	44.23	-	-	3630.15
				12/27/2022	44.22	-	-	3630.16

Table 1 - Groundwater Gauging Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-22 2"	3674.07	20	50	03/09/2016	40.10	-	-	3633.97
				06/08/2016	39.95	-	-	3634.12
				09/21/2016	40.20	-	-	3633.87
				12/07/2016	40.55	-	-	3633.52
				03/22/2017	40.37	-	-	3633.70
				05/24/2017	40.43	-	-	3633.64
				09/18/2017	40.63	-	-	3633.44
				12/13/2017	40.79	-	-	3633.28
				03/29/2018	40.99	-	-	3633.08
				06/19/2018	41.02	-	-	3633.05
				09/18/2018	41.15	-	-	3632.92
				01/16/2019	41.10	-	-	3632.97
				03/19/2019	41.18	-	-	3632.89
				06/27/2019	41.32	-	-	3632.75
				09/20/2019	41.41	-	-	3632.66
				12/11/2019	41.52	-	-	3632.55
				03/23/2020	41.60	-	-	3632.47
				06/24/2020	41.83	-	-	3632.24
				09/11/2020	42.40	-	-	3631.67
				12/03/2020	42.39	-	-	3631.68
				03/23/2021	42.53	-	-	3631.54
				06/22/2021	42.97	-	-	3631.10
				09/21/2021	43.03	-	-	3631.04
				12/15/2021	43.20	-	-	3630.87
				03/22/2022	43.31	-	-	3630.76
				06/21/2022	43.60	-	-	3630.47
				09/26/2022	43.96	-	-	3630.11
				12/27/2022	43.97	-	-	3630.10
MW-23 2"	3672.39	29	49	03/09/2016	39.80	-	-	3632.59
				06/08/2016	39.77	-	-	3632.62
				09/21/2016	40.02	-	-	3632.37
				12/07/2016	40.18	-	-	3632.21
				03/22/2017	41.28	-	-	3631.11
				05/24/2017	40.22	-	-	3632.17
				09/18/2017	40.40	-	-	3631.99
				12/13/2017	40.60	-	-	3631.79
				03/29/2018	40.68	-	-	3631.71
				06/19/2018	42.88	-	-	3629.51
				09/18/2018	40.90	-	-	3631.49
				01/16/2019	41.03	-	-	3631.36
				03/19/2019	41.11	-	-	3631.28
				06/26/2019	41.12	-	-	3631.27
				09/20/2019	41.30	-	-	3631.09
				12/10/2019	41.45	-	-	3630.94
				03/23/2020	41.61	-	-	3630.78
				06/24/2020	41.70	-	-	3630.69
				09/11/2020	42.30	-	-	3630.09
				12/03/2020	42.09	-	-	3630.30
				03/23/2021	42.38	-	-	3630.01
				06/21/2021	42.67	-	-	3629.72
				09/21/2021	42.83	-	-	3629.56
				12/15/2021	42.90	-	-	3629.49
				03/22/2022	43.04	-	-	3629.35
				06/21/2022	43.20	-	-	3629.19
				09/26/2022	43.59	-	-	3628.80
				12/27/2022	43.68	-	-	3628.71
MW-24 2"	3672.79	30	50	03/09/2016	39.66	-	-	3633.13
				06/08/2016	39.64	-	-	3633.15
				09/21/2016	39.89	-	-	3632.90
				12/07/2016	40.06	-	-	3632.73
				03/22/2017	40.02	-	-	3632.77
				05/24/2017	40.07	-	-	3632.72
				09/18/2017	40.28	-	-	3632.51
				12/13/2017	40.41	-	-	3632.38
				03/29/2018	40.57	-	-	3632.22
				06/19/2018	40.65	-	-	3632.14
				09/18/2018	40.75	-	-	3632.04
				01/16/2019	40.82	-	-	3631.97
				03/19/2019	40.86	-	-	3631.93
				06/27/2019	41.00	-	-	3631.79
				09/20/2019	41.09	-	-	3631.70
				12/10/2019	41.22	-	-	3631.57
				03/23/2020	41.30	-	-	3631.49
				06/24/2020	41.47	-	-	3631.32
				09/11/2020	41.75	-	-	3631.04
				12/03/2020	41.79	-	-	3631.00
				03/23/2021	42.12	-	-	3630.67
				06/22/2021	42.38	-	-	3630.41
				09/21/2021	42.62	-	-	3630.17
				12/15/2021	42.64	-	-	3630.15
				03/22/2022	42.80	-	-	3629.99
				06/21/2022	42.98	-	-	3629.81
				09/26/2022	43.40	-	-	3629.39
				12/27/2022	43.50	-	-	3629.29

Table 1 - Groundwater Gauging Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-25 4"	3676.83	37	57	03/09/2016	42.55	42.06	0.49	3634.69
				06/08/2016	NL	-	-	-
				09/21/2016	42.91	42.33	0.58	3634.40
				12/07/2016	42.80	-	-	3634.03
				03/22/2017	42.38	-	-	3634.45
				05/24/2017	42.60	-	-	3634.23
				09/18/2017	42.82	-	-	3634.01
				12/13/2017	42.89	-	-	3633.94
				03/29/2018	43.17	-	-	3633.66
				06/19/2018	43.12	-	-	3633.71
				09/18/2018	43.26	-	-	3633.57
				01/16/2019	43.17	-	-	3633.66
				03/19/2019	43.31	-	-	3633.52
				06/26/2019	43.35	-	-	3633.48
				09/20/2019	43.53	43.52	0.01	3633.31
				12/11/2019	43.67	43.65	0.02	3633.18
				03/23/2020	43.73	-	-	3633.10
				06/24/2020	44.02	-	-	3632.81
				09/11/2020	44.45	-	-	3632.38
				12/03/2020	44.71	44.70	0.01	3632.13
				03/24/2021	44.79	-	-	3632.04
				06/22/2021	45.26	-	-	3631.57
				09/21/2021	45.26	-	-	3631.57
				12/15/2021	45.57	-	-	3631.26
				03/22/2022	45.61	-	-	3631.22
				06/21/2022	45.95	-	-	3630.88
				09/26/2022	46.33	-	-	3630.50
				12/27/2022	46.23	-	-	3630.60
MW-26 4"	3677.17	36.5	56.5	03/09/2016	43.46	41.88	1.58	3635.03
				06/08/2016	44.67	41.56	3.11	3635.10
				09/21/2016	43.50	42.16	1.34	3634.79
				12/07/2016	43.12	42.77	0.35	3634.34
				03/22/2017	43.50	42.15	1.35	3634.80
				05/24/2017	43.30	42.42	0.88	3634.60
				09/18/2017	43.00	42.72	0.28	3634.40
				12/13/2017	43.11	42.83	0.28	3634.29
				03/29/2018	43.23	43.13	0.10	3634.02
				06/19/2018	43.65	43.01	0.64	3634.05
				09/18/2018	43.60	43.21	0.39	3633.90
				01/16/2019	44.56	42.90	1.66	3634.00
				03/19/2019	44.22	43.07	1.15	3633.91
				06/26/2019	43.90	43.32	0.58	3633.75
				09/20/2019	45.28	43.14	2.14	3633.68
				12/11/2019	46.02	43.18	2.84	3633.52
				03/23/2020	45.30	43.37	1.93	3633.48
				06/24/2020	44.62	43.90	0.72	3633.15
				09/11/2020	44.85	44.40	0.45	3632.70
				12/03/2020	45.35	44.65	0.70	3632.40
				03/24/2021	45.28	44.27	1.01	3632.73
				06/22/2021	48.74	44.70	4.04	3631.80
				09/21/2021	48.85	44.61	4.24	3631.86
				12/15/2021	49.30	44.95	4.35	3631.50
				03/22/2022	49.00	44.91	4.09	3631.59
				06/21/2022	49.80	45.34	4.46	3631.09
				09/26/2022	46.79	46.32	0.47	3630.77
				12/27/2022	46.55	46.21	0.34	3630.90
MW-27 4"	3674.98	34.5	54.5	03/09/2016	41.91	39.41	2.50	3635.16
				06/08/2016	43.25	39.10	4.15	3635.20
				09/21/2016	42.95	39.53	3.42	3634.89
				12/07/2016	41.89	40.34	1.55	3634.38
				03/22/2017	43.10	39.40	3.70	3634.97
				05/24/2017	NL	-	-	-
				09/18/2017	42.50	40.07	2.43	3634.51
				12/13/2017	42.75	40.16	2.59	3634.39
				03/29/2018	42.71	40.52	2.19	3634.10
				06/19/2018	43.35	40.33	3.02	3634.15
				09/18/2018	42.30	40.49	1.81	3634.19
				01/16/2019	47.10	45.20	1.90	3629.47
				03/19/2019	43.26	40.46	2.80	3634.06
				06/27/2019	40.65	40.62	0.03	3634.36
				09/20/2019	44.11	40.57	3.54	3633.83
				12/11/2019	44.20	40.73	3.47	3633.68
				03/23/2020	44.85	40.65	4.20	3633.64
				06/24/2020	46.88	41.00	5.88	3633.01
				09/11/2020	47.00	41.37	5.63	3632.68
				12/03/2020	46.30	41.81	4.49	3632.43
				12/06/2020	46.87	41.70	5.17	3632.43
				03/24/2021	47.06	41.62	5.44	3632.46
				06/22/2021	44.45	42.73	1.72	3631.97
				09/21/2021	48.10	42.36	5.74	3631.67
				12/15/2021	47.41	42.51	4.90	3631.66
				03/22/2022	47.30	42.39	4.91	3631.78
				06/21/2022	45.10	43.41	1.69	3631.29
				09/26/2022	47.77	43.35	4.42	3630.90
				12/27/2022	46.71	43.35	3.36	3631.08

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Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-28 2"	3678.86	40	60	03/09/2016	43.43	-	-	3635.43
				06/08/2016	43.45	-	-	3635.41
				09/21/2016	43.65	-	-	3635.21
				12/07/2016	43.85	-	-	3635.01
				03/22/2017	43.80	-	-	3635.06
				05/24/2017	43.88	-	-	3634.98
				09/18/2017	44.05	-	-	3634.81
				12/13/2017	44.16	-	-	3634.70
				03/29/2018	44.34	-	-	3634.52
				06/19/2018	44.47	-	-	3634.39
				09/18/2018	44.56	-	-	3634.30
				01/14/2019	44.60	-	-	3634.26
				03/19/2019	44.65	-	-	3634.21
				06/26/2019	44.80	-	-	3634.06
				09/20/2019	44.91	-	-	3633.95
				12/10/2019	45.00	-	-	3633.86
				03/23/2020	45.08	-	-	3633.78
				06/24/2020	45.52	-	-	3633.34
				09/08/2020	46.00	-	-	3632.86
				12/03/2020	46.46	-	-	3632.40
				03/23/2021	46.33	-	-	3632.53
				06/21/2021	47.02	-	-	3631.84
				09/21/2021	46.78	-	-	3632.08
				12/15/2021	47.33	-	-	3631.53
				03/22/2022	47.18	-	-	3631.68
				06/21/2022	47.78	-	-	3631.08
				09/26/2022	48.12	-	-	3630.74
				12/27/2022	47.86	-	-	3631.00
MW-29 4"	3674.37	40	60	03/09/2016	39.49	-	-	3634.88
				06/08/2016	41.24	39.18	2.06	3634.85
				09/21/2016	42.91	39.22	3.69	3634.54
				12/07/2016	43.30	39.72	3.58	3634.06
				03/22/2017	42.80	39.30	3.50	3634.49
				05/24/2017	42.15	39.70	2.45	3634.27
				09/18/2017	42.40	39.87	2.53	3634.08
				12/13/2017	40.60	40.35	0.25	3633.98
				03/29/2018	40.64	-	-	3633.73
				06/19/2018	41.15	40.56	0.59	3633.71
				09/18/2018	41.70	40.60	1.10	3633.59
				01/16/2019	40.90	40.67	0.23	3633.66
				03/19/2019	41.17	40.62	0.55	3633.66
				06/27/2019	43.40	40.63	2.77	3633.28
				09/20/2019	41.42	40.83	0.59	3633.44
				12/11/2019	OB	-	-	-
				03/23/2020	41.62	41.02	0.60	3633.25
				06/24/2020	41.94	41.34	0.60	3632.93
				09/11/2020	42.35	41.85	0.50	3632.44
				12/03/2020	42.70	42.05	0.65	3632.21
				12/06/2020	42.44	42.03	0.41	3632.27
				03/24/2021	42.36	42.14	0.22	3632.19
				06/22/2021	42.94	42.62	0.32	3631.70
				09/21/2021	42.99	42.66	0.33	3631.66
				12/15/2021	43.47	42.90	0.57	3631.38
				03/22/2022	43.20	42.89	0.31	3631.43
				06/21/2022	43.75	43.28	0.47	3631.01
				09/26/2022	44.06	43.68	0.38	3630.63
				12/27/2022	43.70	43.60	0.10	3630.75
MW-30 4"	3675.39	40	60	03/09/2016	39.96	39.95	0.01	3635.44
				06/08/2016	42.30	39.46	2.84	3635.46
				09/21/2016	40.94	40.10	0.84	3635.15
				12/07/2016	41.93	40.58	1.35	3634.59
				03/22/2017	41.15	40.00	1.15	3635.20
				05/24/2017	40.95	40.30	0.65	3634.98
				09/18/2017	41.73	40.33	1.40	3634.83
				12/13/2017	41.23	40.59	0.64	3634.69
				03/29/2018	40.10	39.96	0.14	3635.41
				06/19/2018	41.30	40.90	0.40	3634.42
				09/18/2018	41.04	41.03	0.01	3634.36
				01/16/2019	41.00	40.80	0.20	3634.56
				03/19/2019	42.46	40.76	1.70	3634.35
				06/27/2019	41.33	41.20	0.13	3634.17
				09/20/2019	41.82	41.21	0.61	3634.08
				12/11/2019	41.60	41.40	0.20	3633.96
				03/23/2020	41.64	41.43	0.21	3633.93
				06/24/2020	41.88	41.86	0.02	3633.53
				09/11/2020	42.40	42.33	0.07	3633.05
				12/03/2020	44.03	43.91	0.12	3631.46
				12/06/2020	42.64	42.62	0.02	3632.77
				03/24/2021	42.82	42.58	0.24	3632.77
				06/22/2021	43.25	43.20	0.05	3632.18
				09/21/2021	43.20	43.08	0.12	3632.29
				12/15/2021	43.58	43.48	0.10	3631.89
				03/22/2022	43.40	43.39	0.01	3632.00
				06/21/2022	43.85	43.84	0.01	3631.55
				09/26/2022	44.21	44.20	0.01	3631.19
				12/27/2022	44.06	44.05	0.01	3631.34

Table 1 - Groundwater Gauging Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-31 2"	3674.36	40	60	03/09/2016	39.60	-	-	3634.76
				06/08/2016	40.55	-	-	3633.81
				09/21/2016	39.80	-	-	3634.56
				12/07/2016	40.20	-	-	3634.16
				03/22/2017	39.98	-	-	3634.38
				05/24/2017	40.04	-	-	3634.32
				09/18/2017	40.25	-	-	3634.11
				12/13/2017	40.31	-	-	3634.05
				03/29/2018	40.60	-	-	3633.76
				06/19/2018	40.57	-	-	3633.79
				09/18/2018	40.74	-	-	3633.62
				01/16/2019	40.70	-	-	3633.66
				03/19/2019	40.73	-	-	3633.63
				06/27/2019	40.87	-	-	3633.49
				09/20/2019	40.96	-	-	3633.40
				12/11/2019	41.09	-	-	3633.27
				03/23/2020	41.15	-	-	3633.21
				06/24/2020	41.43	-	-	3632.93
				09/10/2020	41.86	-	-	3632.50
				12/03/2020	42.11	-	-	3632.25
				03/23/2021	42.18	-	-	3632.18
				06/22/2021	42.70	-	-	3631.66
				09/21/2021	42.65	-	-	3631.71
				12/15/2021	43.00	-	-	3631.36
				03/22/2022	42.95	-	-	3631.41
				06/21/2022	43.31	-	-	3631.05
				09/26/2022	43.69	-	-	3630.67
				12/27/2022	43.63	-	-	3630.73
MW-32 2"	3672.48	40	60	03/09/2016	39.62	-	-	3632.86
				06/08/2016	39.63	-	-	3632.85
				09/21/2016	39.85	-	-	3632.63
				12/07/2016	40.04	-	-	3632.44
				03/22/2017	40.00	-	-	3632.48
				05/24/2017	40.06	-	-	3632.42
				09/18/2017	40.26	-	-	3632.22
				12/13/2017	40.38	-	-	3632.10
				03/29/2018	40.55	-	-	3631.93
				06/19/2018	40.59	-	-	3631.89
				09/18/2018	41.73	-	-	3630.75
				01/16/2019	40.91	-	-	3631.57
				03/19/2019	40.88	-	-	3631.60
				06/27/2019	41.00	-	-	3631.48
				09/20/2019	41.09	-	-	3631.39
				12/10/2019	41.23	-	-	3631.25
				03/23/2020	41.30	-	-	3631.18
				06/24/2020	41.48	-	-	3631.00
				09/11/2020	41.75	-	-	3630.73
				12/03/2020	41.68	-	-	3630.80
				03/23/2021	42.12	-	-	3630.36
				06/22/2021	42.25	-	-	3630.23
				09/21/2021	42.59	-	-	3629.89
				12/15/2021	42.51	-	-	3629.97
				03/22/2022	42.74	-	-	3629.74
				06/21/2022	42.87	-	-	3629.61
				09/26/2022	43.35	-	-	3629.13
				12/27/2022	43.42	-	-	3629.06

Table 1 - Groundwater Gauging Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-33 2"	3679.19	40	60	03/09/2016	44.07	-	-	3635.12
				06/08/2016	44.08	-	-	3635.11
				09/21/2016	44.28	-	-	3634.91
				12/07/2016	44.53	-	-	3634.66
				03/22/2017	44.44	-	-	3634.75
				05/24/2017	44.52	-	-	3634.67
				09/18/2017	43.70	-	-	3635.49
				12/13/2017	44.83	-	-	3634.36
				03/29/2018	45.03	-	-	3634.16
				06/19/2018	45.11	-	-	3634.08
				09/18/2018	45.22	-	-	3633.97
				01/14/2019	45.25	-	-	3633.94
				03/19/2019	45.34	-	-	3633.85
				06/26/2019	45.48	-	-	3633.71
				09/20/2019	45.57	-	-	3633.62
				12/10/2019	45.68	-	-	3633.51
				03/23/2020	45.77	-	-	3633.42
				06/24/2020	46.09	-	-	3633.10
				09/08/2020	46.48	-	-	3632.71
				12/03/2020	46.85	-	-	3632.34
				03/23/2021	46.84	-	-	3632.35
				06/21/2021	47.38	-	-	3631.81
				09/21/2021	47.32	-	-	3631.87
				12/15/2021	47.70	-	-	3631.49
				03/22/2022	47.65	-	-	3631.54
				06/21/2022	48.11	-	-	3631.08
				09/26/2022	48.43	-	-	3630.76
				12/27/2022	48.31	-	-	3630.88

Specific Gravity: 0.75
Notes:
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
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-7	03/09/2016	0.000400 J	<0.000238	<0.000238	<0.000243	-
	06/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/21/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/07/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/22/2017	0.00728	<0.000367	<0.000657	<0.000630	0.00728
	05/24/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/19/2017	0.000910 J	<0.00100	<0.000657	<0.000630	0.000910 J
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/29/2018	0.00379	0.000780 J	<0.000657	<0.000630	0.00457
	06/19/2018	0.00337	<0.000367	0.00138 J	<0.000630	0.00475
	09/19/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/19/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/26/2019	0.000560	0.000420	<0.000657	<0.00063	0.000980
	09/23/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/11/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/25/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/24/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/10/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/03/2020	0.00135 J	0.00111 J	0.000760 J	0.0008700 J	0.004090
	03/25/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/22/2021	0.000553 J B	<0.00200	0.000699 J	<0.00400	0.00125 J B
	09/21/2021	<0.00200 U F2 F1	<0.00200 U	<0.00200 U	<0.00400 U	<0.00200 U
	12/16/2021	0.00147 J B	<0.00200	<0.00200	<0.00400	0.00147 J
	03/23/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/21/2022	<0.000408 *1	<0.000367 *1	<0.000657	<0.000642	<0.000657
	09/27/2022	0.00195 J B	<0.000367	<0.000657	<0.000642	0.00195 J
	12/28/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
MW-8	12/20/2017	**0.130**	0.0133	0.0904	0.203	0.437
MW-13	03/09/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	06/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/21/2016	0.000504 J	<0.000621	<0.000763	<0.000256	-
	12/07/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/22/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	05/24/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/29/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/19/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/19/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2018	0.000900 J	0.00130	0.00210	0.00300	0.00730
	03/19/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/26/2019	0.00176	<0.000367	<0.000657	<0.00063	0.00176
	09/23/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/11/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/25/2020	**0.0148**	<0.000512	0.00830	0.00460	0.0277
	09/10/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/03/2020	0.000730 J	0.00107 J	0.000740 J	0.001530 J	0.004070
	03/26/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/22/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/21/2021	0.00723	<0.00200	0.00609	0.00130 J	0.0146
	06/23/2022	0.00405 B	<0.000367	<0.000657 *1	<0.000642 *1	0.00405
MW-18	03/09/2016	0.000400 J	<0.000238	<0.000238	<0.000243	-
	06/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/21/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/07/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/22/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	05/24/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/19/2017	**0.0335**	<0.00100	0.00463	0.00209	0.0402
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/29/2018	0.00435	0.000840 J	<0.000657	<0.000630	0.00519
	06/19/2018	0.00352	<0.000367	<0.000657	<0.000630	0.00352
	03/19/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/27/2019	0.00126	0.000490	<0.000657	0.000770	0.00252
	09/23/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/11/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/25/2020	0.00590	<0.000512	0.00470	0.00490	0.0155
	06/25/2020	0.00854	0.00193 J	0.0678	0.114	0.192
	09/11/2020	**0.0112**	<0.000367	0.00741	0.00137 J	0.0200
	12/03/2020	0.00124 J	0.000700 J	0.000870 J	0.0009200 J	0.003730
	03/26/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/22/2021	0.00266 B	<0.00200	0.000696 J	<0.00400	0.00336 J B
	09/21/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657

Table 2 - Groundwater Analytical Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-19	09/19/2017	**0.283**	0.286	0.429 D	0.585	1.58
	12/19/2017	**0.324**	**1.03 D**	0.662 D	**0.983**	3.00
	03/29/2018	**0.0389**	0.186	0.176	0.385	0.786
	06/19/2018	**0.0258**	0.159	0.149	0.222	0.555
	09/19/2018	**0.0897**	0.256	**0.756 D**	**1.16**	2.26
	12/19/2018	**0.0106**	0.00570	0.177	0.261	0.454
	03/19/2019	0.00387	0.00208	0.29	0.281	0.577
	09/21/2021	0.00810	<0.00200	0.0634	0.00768	0.0792
	03/23/2022	**0.0110**	<0.000367	0.0880	0.00490	0.104
	06/22/2022	**0.0266 *1**	0.00962 *1	0.298	0.160	0.494
MW-21	03/09/2016	**1.75**	<0.00476	0.294	0.0383	-
	06/08/2016	**1.74**	<0.0248	0.280	0.0467	-
	09/21/2016	**3.38**	<0.0329	0.364	0.158	-
	12/07/2016	**5.32**	<0.0250	0.485	0.344	-
	03/22/2017	**0.371**	<0.000367	0.0460	0.0124	0.429
	05/24/2017	**11.6**	<0.0500	**1.31**	<0.0321	12.9
	09/19/2017	**8.34 D**	<0.00100	**1.28 D**	0.234	9.85
	12/19/2017	**1.96 D**	<0.000367	0.0338	0.00700	2.00
	03/29/2018	**0.358**	0.000850 J	0.0653	0.0109	0.435
	06/19/2018	**1.60 D**	<0.000367	0.258	0.0508	1.91
	09/19/2018	**1.18 D**	0.000650 J	0.141	0.0170	1.34
	12/19/2018	**0.374**	<0.000512	0.0639	0.0140	0.452
	03/20/2019	**1.22**	<0.0005	0.185	0.0335	1.44
	06/27/2019	**1.67**	<0.00184	0.517	0.0190	2.21
	09/23/2019	**7.46**	<0.000367	0.117	0.0102	7.59
	12/11/2019	**1.45**	<0.000367	0.126	0.0430	1.62
	03/25/2020	**0.0699**	<0.000512	0.00670	0.00170	0.0783
	06/24/2020	**2.38 D**	<0.000367	0.399	0.0589	2.84
	09/11/2020	**4.55**	<0.00734	**0.777**	0.0926	5.42
	12/03/2020	**11.9 D**	0.00236	**1.92 D**	0.2209	14.04
	03/25/2021	**12.9**	0.0685	**1.07**	0.258	15.6
	06/22/2021	**0.0383 B**	0.000559 J	0.390	0.0631 B	0.492 B
	09/21/2021	**5.17**	<0.100 U	**1.52**	0.3839	7.07
	12/15/2021	**4.06**	<0.00200	**1.39**	0.115	5.57
	03/23/2022	**1.91 J**	0.574 J	<0.657	**0.730 J**	3.21 J
	06/22/2022	**0.119 *1 F2**	0.000367 *1 F	0.121 F2	0.00544 F2	0.245
	09/28/2022	<0.000408	<0.000367	0.00102 J	<0.000642	0.00102 J
	12/29/2022	**0.613**	<0.000367	0.211	0.0274	0.851
MW-22	03/09/2016	**2.05**	<0.00476	0.304	<0.00486	-
	06/08/2016	**1.88**	<0.0248	0.247	<0.0102	-
	09/21/2016	**3.20**	<0.0329	0.452	0.109	-
	12/07/2016	**1.28**	<0.0200	0.152	<0.0128	-
	03/22/2017	**0.373**	<0.000367	0.0477	<0.000630	0.421
	05/24/2017	**1.23**	<0.00500	0.113	<0.00321	1.34
	09/19/2017	**0.928 D**	<0.00100	0.289	<0.000630	1.22
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/29/2018	0.00392	0.000750 J	<0.000657	<0.000630	0.00467
	06/19/2018	0.00404	0.00121 J	0.000860 J	<0.000630	0.00611
	09/19/2018	0.000910 J	<0.000367	0.000760 J	0.00175 J	0.00342
	12/19/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/20/2019	0.00136	<0.0005	0.00323	<0.0005	0.00459
	06/27/2019	0.00447	<0.000367	0.0225	<0.00063	0.0270
	09/23/2019	**0.0471**	<0.000367	0.0507	<0.00063	0.0978
	12/11/2019	**0.0154**	0.000500	0.0264	<0.000630	0.0423
	03/25/2020	**0.0592**	<0.000512	0.0134	0.00450	0.0771
	06/24/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/11/2020	**0.108**	0.000820 J	0.0317	0.00410	0.145
	12/03/2020	**0.0302**	0.00125 J	0.0166	0.0007500 J	0.04880
	03/26/2021	**0.0545**	<0.00200	0.0305	<0.00400	0.0857
	06/22/2021	0.00114 J B	<0.00200	0.00172 J	<0.00400	0.00286 J B
	09/21/2021	<0.00200	<0.00200	0.00963	<0.00400	0.00963
	12/16/2021	0.000754 J B	<0.00200	<0.00200	<0.00400	0.000754 J
	03/23/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/28/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/29/2022	0.00291	<0.000367	<0.000657	<0.000642	0.00291 J

Table 2 - Groundwater Analytical Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-23	03/09/2016	0.000500 J	<0.000238	<0.000238	<0.000243	-
	06/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/21/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/07/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/22/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	05/24/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/29/2018	0.00647	0.000630 J	<0.000657	<0.000630	0.00710
	06/19/2018	0.00521	0.00104 J	0.00209	0.00143 J	0.00977
	09/19/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/20/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/26/2019	0.00130	0.00100	<0.000657	0.000760	0.00306
	09/23/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/11/2019	0.00435	<0.000367	0.00235	0.000810	0.00751
	03/25/2020	**0.0109**	<0.000512	0.00450	0.00180	0.0172
	06/24/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/11/2020	**0.0161**	<0.000367	0.0103	0.00130 J	0.0277
	12/03/2020	0.00131 J	0.000870 J	0.000840 J	0.0007800 J	0.003800
	03/25/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/22/2021	0.000928 J B	<0.00200	0.000660 J	<0.00400	0.00159 J B
	09/21/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	12/16/2021	0.000813 J B	<0.00200	<0.00200	<0.00400	0.000813 J
	03/23/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/22/2022	<0.000408 *1	<0.000367 *1	<0.000657	<0.000642	<0.000657
	09/29/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/28/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
MW-24	03/09/2016	0.000300 J	<0.000238	<0.000238	<0.000243	-
	06/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/21/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/07/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/22/2017	0.00480	<0.000367	<0.000657	<0.000630	0.00480
	05/24/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/19/2017	0.000930 J	<0.00100	<0.000657	<0.000630	0.000930 J
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/29/2018	0.00399	0.000790 J	<0.000657	0.000650 J	0.00543
	06/19/2018	0.00130 J	<0.000367	0.00197 J	0.000850 J	0.00412
	09/19/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/20/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/27/2019	0.000510	<0.000367	<0.000657	<0.00063	0.000510
	09/23/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/11/2019	**0.0178**	<0.000367	0.00685	0.00217	0.0268
	03/25/2020	**0.0164**	<0.000512	0.00690	0.00220	0.0255
	06/24/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/11/2020	**0.0122**	<0.000367	0.00856	0.00176 J	0.0225
	12/03/2020	0.000860 J	0.000890 J	<0.002000	<0.002000	0.001750 J
	03/25/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/22/2021	**0.0195 B**	<0.00200	0.000929 J	<0.00400	0.0204 B
	09/21/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	12/16/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/23/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/22/2022	<0.000408 *1	<0.000367 *1	0.00241	0.001070 J	0.00348 J
	09/29/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/29/2022	0.00140 J	<0.000367	0.000889 J	<0.000642	0.00229 J
MW-25	09/19/2017	**7.91**	0.204	**0.852**	**1.00**	9.97
	12/20/2017	**4.95 D**	0.0112	0.243	0.176	5.38
	03/29/2018	**1.15 D**	0.00367	0.0851	0.0889	1.33
	06/19/2018	**1.48 D**	0.000810 J	0.134	0.109	1.72
	09/19/2018	**1.40 D**	0.00158 J	0.00371	0.0681	1.47
	12/19/2018	**3.64**	<0.0051	0.330	0.320	4.29
	03/20/2019	**2.45**	0.000820	0.397	0.253	3.10
	06/26/2019	**4.67**	<0.0367	**0.776**	0.513	5.96
	03/25/2020	**0.434**	<0.00256	0.104	0.0830	0.621
	06/25/2020	**0.137**	0.00105 J	0.0324	0.0464	0.217
	09/11/2020	**0.146**	<0.000367	0.0165	0.00572	0.168
	03/25/2021	**0.170**	<0.00200	0.0403	0.0288	0.239
	06/22/2021	0.00431 B	0.000407 J	0.0478	0.0141 B	0.0666 B
	09/21/2021	**0.833**	0.000406 J	0.130	0.104	1.07
	12/15/2021	**2.02**	<0.00200	0.0732	0.0317	2.12
	03/23/2022	**1.26**	<0.000367	0.0676	0.0501	1.38
	06/23/2022	**0.268 F2 F1 B**	<0.000367	0.0117 F2 F1 *	0.00653 F2 F1 *	0.286
	09/27/2022	**0.392 B**	0.000603 J B	0.00666	0.00321 J B	0.402
	12/29/2022	0.00333	0.000607 J	0.00189 J	<0.000642	0.00583

Table 2 - Groundwater Analytical Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-28	03/09/2016	0.000900 J	<0.000238	<0.000238	<0.000243	-
	06/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/21/2016	0.00130	<0.000621	<0.000763	<0.000256	-
	12/07/2016	0.00485	<0.00100	<0.000657	<0.000642	-
	03/22/2017	0.00392	<0.000367	<0.000657	<0.000630	0.00392
	05/24/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/19/2017	**0.0171**	<0.00100	0.00191 J	0.00130 J	0.0203
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/29/2018	0.00558	0.00101 J	<0.000657	0.000800 J	0.00739
	06/19/2018	0.000960 J	<0.000367	<0.000657	<0.000630	0.000960 J
	09/19/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/20/2019	0.00496	<0.0005	0.000760	<0.0005	0.00572
	06/26/2019	0.000660	0.000520	<0.000657	<0.00063	0.00118
	09/23/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/11/2019	0.00226	<0.000367	0.00151	0.000680	0.00445
	03/25/2020	<0.000480	<0.000512	<0.000616	0.000500 J	0.000500 J
	06/24/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/10/2020	<0.000408	<0.000367	<0.000657	0.00112 J	0.00112 J
	12/03/2020	0.00103 J	0.00160 J	0.00100 J	0.001370 J	0.005000
	03/25/2021	0.000755 J	<0.00200	<0.00200	<0.00400	<0.00200
	06/22/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/21/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/16/2021	0.00323 B	<0.00200	0.00164 J	<0.00400	0.00487
	03/23/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/21/2022	<0.000408 *1	<0.000367 *1	<0.000657	<0.000642	<0.000657
	09/27/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/28/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
MW-29	03/29/2018	**1.12 D**	0.212	0.134	0.219	1.68
MW-31	03/09/2016	0.000500 J	<0.000238	<0.000238	<0.000243	-
	06/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/21/2016	0.000600 J	<0.000621	<0.000763	<0.000256	-
	12/07/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/22/2017	0.00279	<0.000367	<0.000657	<0.000630	0.00279
	05/24/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/19/2017	**0.0448**	0.00429	0.00745	0.00791	0.0645
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/29/2018	0.00168 J	0.000890 J	<0.000657	<0.000630	0.00257
	06/19/2018	0.000860 J	<0.000367	0.000750 J	<0.000630	0.00161 J
	09/19/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2018	<0.000480	0.000600 J	0.00100 J	0.00210	0.00370
	03/20/2019	**0.0109**	<0.0005	0.00103	<0.0005	0.0119
	06/27/2019	0.00107	0.000630	<0.000657	<0.00063	0.00170
	09/23/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/11/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/25/2020	**0.0352**	<0.000512	0.00940	0.00310	0.0477
	06/25/2020	**0.0154**	<0.000367	0.00766	<0.000630	0.0231
	09/10/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/03/2020	0.00244	0.000990 J	0.00116 J	0.001130 J	0.005720
	03/25/2021	0.000624 J	<0.00200	<0.00200	<0.00400	<0.00200
	06/22/2021	0.00146 J B	<0.00200	<0.00200	<0.00400	0.00146 J B
	09/21/2021	<0.00200	<0.00200	0.000816 J	<0.00400	<0.00200
	12/16/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/23/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/28/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/29/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657

Table 2 - Groundwater Analytical Data - Historical
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-32	03/09/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	06/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/21/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/07/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/22/2017	0.00533	<0.000367	<0.000657	<0.000630	0.00533
	05/24/2017	0.00440	<0.00100	<0.000657	<0.000642	0.00440
	09/19/2017	0.0100	<0.00100	0.00133 J	0.000860 J	0.0122
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/29/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/19/2018	0.000640 J	<0.000367	<0.000657	<0.000630	0.000640 J
	09/19/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/20/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/27/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	09/23/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/11/2019	0.00538	<0.000367	0.00262	0.000900	0.00890
	03/25/2020	**0.0158**	<0.000512	0.00560	0.00200	0.0234
	06/24/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/11/2020	**0.0125**	<0.000367	0.00917	0.00164 J	0.0233
	12/03/2020	0.000590 J	0.000750 J	0.000850 J	0.0009700 J	0.003160
	03/25/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/22/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/21/2021	0.00319	0.000431 J	0.00349	0.00130 J	0.00866 *+
	12/16/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/23/2022	0.00115 J	0.000388 J	<0.000657	<0.000642	0.00154 J
	06/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/28/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/29/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
MW-33	03/09/2016	0.000700 J	<0.000238	<0.000238	<0.000243	-
	06/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/21/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/07/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/22/2017	0.00619	<0.000367	<0.000657	<0.000630	0.00619
	05/24/2017	0.00267	<0.00100	<0.000657	<0.000642	0.00267
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/29/2018	0.00466	0.000880 J	<0.000657	<0.000630	0.00554
	06/19/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/19/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/20/2019	0.00519	<0.0005	0.000570	<0.0005	0.00576
	06/26/2019	0.000470	0.000400	<0.000657	<0.00063	0.000870
	09/23/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/11/2019	0.00160	0.000380	0.00105	<0.000630	0.00303
	03/25/2020	<0.000480	<0.000512	<0.000616	0.000600 J	0.000600 J
	06/24/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/10/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/03/2020	0.000470 J	0.00123 J	0.00114 J	0.0007700 J	0.003610
	03/25/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/22/2021	0.000636 J B	0.000647 J	0.000870 J	0.000764 J B	0.00292 J B
	09/21/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	12/16/2021	0.00197 J B	<0.00200	0.000815 J	<0.00400	0.00279 J
	03/23/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/21/2022	<0.000408 *1	<0.000367 *1	<0.000657	<0.000642	<0.000657
	09/27/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/28/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657

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

Analyte concentration exceeds the standard for:
NMWQCC Groundwater Standards

Table 3 - Groundwater Analytical - Historical - PAH Supplement
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Date Sampled	Acenaphthene (mg/L)	Acenaphthylene (mg/L)	Anthracene (mg/L)	Benzo(a)anthracene (mg/L)	Benzo(a)pyrene (mg/L)	Benzo(b)fluoranthene (mg/L)	Benzo(g,h,i)perylene (mg/L)	Benzo(k)fluoranthene (mg/L)	Chrysene (mg/L)	Dibenz(a,h)anthracene (mg/L)	Dibenzofuran (mg/L)	Fluoranthene (mg/L)	Fluorene (mg/L)	Indeno (1,2,3-c,d) pyren (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)	Pyrene (mg/L)
NMWQCC - Groundwater		-	-	-	-	0.0007	-	-	-	-	-	-	-	-	-	0.03	-	-
MW-18	08/21/2008	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
	08/12/2009	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL	BRL
	03/25/2020	<0.000108	<0.0000911	<0.0000938	<0.000146	<0.0000618	<0.0000770	<0.000123	<0.000126	<0.000169	<0.0000823	-	<0.000170	<0.000109	<0.0000989	0.000197 J	<0.0000921	<0.000141
MW-21	03/09/2016	<0.0000410	<0.0000718	<0.0000396	<0.0000890	<0.0000516	<0.0000877	<0.0000641	<0.0000693	<0.000100	<0.0000694	0.000199 J	<0.0000788	<0.0000973	<0.0000663	0.000362	<0.0000637	<0.0000512
	03/29/2018	0.0000263 J	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	0.000317	<0.0000090	0.000182	<0.0000049	0.00143	0.000135	<0.0000092
	03/20/2019	0.0000454	<0.0000072	<0.0000075	<0.0000063	<0.0000095	<0.0000090	<0.0000079	<0.0000077	<0.0000087	<0.0000049	0.000453	<0.0000089	0.000270	<0.0000049	0.00111	0.000178	<0.0000091
	03/25/2020	<0.000113	<0.0000951	<0.0000979	<0.000152	<0.0000645	<0.0000803	<0.000128	<0.000131	<0.000176	<0.0000859	-	<0.000178	0.000376	<0.000103	0.00128	0.000389	<0.000147
MW-22	03/09/2016	<0.0000335	<0.0000587	<0.0000324	<0.0000728	<0.0000422	<0.0000717	<0.0000524	<0.0000567	<0.0000819	<0.0000568	<0.0000613	<0.0000644	<0.0000796	<0.0000542	0.000138 J	<0.0000521	<0.0000419
	03/29/2018	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	0.0000630	<0.0000090	<0.0000055	<0.0000049	0.000285 J	<0.0000055	<0.0000092
	03/20/2019	0.0000462	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	0.0000720	<0.0000090	<0.0000055	<0.0000049	0.000143	<0.0000055	<0.0000092
	03/25/2020	<0.000103	<0.0000870	<0.0000895	<0.000139	<0.0000589	<0.0000734	<0.000117	<0.000120	<0.000161	<0.0000785	-	<0.000162	<0.000104	<0.0000943	0.000225 J	<0.0000879	<0.000135
MW-28	03/09/2016	<0.0000373	<0.0000653	<0.0000361	<0.0000810	<0.0000470	<0.0000798	<0.0000583	<0.0000630	<0.0000912	<0.0000632	<0.0000682	<0.0000717	<0.0000886	<0.0000604	<0.0000737	<0.0000580	<0.0000466
	03/29/2018	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	0.000128 J	<0.0000055	<0.0000092
	03/20/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	<0.0000045	<0.0000055	<0.0000092
	03/25/2020	<0.000108	<0.0000908	<0.0000934	<0.000145	<0.0000615	<0.0000767	<0.000122	<0.000125	<0.000168	<0.0000820	-	<0.000170	<0.000109	<0.0000985	<0.000105	<0.0000917	<0.000141
MW-31	03/09/2016	<0.0000361	<0.0000632	<0.0000349	<0.0000784	<0.0000454	<0.0000772	<0.0000564	<0.0000610	<0.0000882	<0.0000611	<0.0000660	<0.0000694	<0.0000856	<0.0000584	<0.0000713	<0.0000561	<0.0000451
	03/29/2018	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	0.0000973 J	<0.0000055	<0.0000092
	03/20/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	<0.0000045	<0.0000055	<0.0000092
	03/25/2020	<0.000102	<0.0000860	<0.0000885	<0.000137	<0.0000583	<0.0000726	<0.000116	<0.000119	<0.000159	<0.0000776	-	<0.000161	<0.000103	<0.0000933	0.000153 J	<0.0000869	<0.000133
MW-32	03/09/2016	<0.0000426	<0.0000745	<0.0000412	<0.0000924	<0.0000536	<0.0000910	<0.0000665	<0.0000719	<0.000104	<0.0000720	<0.0000778	<0.0000818	<0.000101	<0.0000688	<0.0000841	<0.0000662	<0.0000532
	03/29/2018	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	<0.0000045	<0.0000055	<0.0000092
	03/20/2019	<0.0000041	<0.0000074	<0.0000077	<0.0000064	<0.0000096	<0.0000092	<0.0000080	<0.0000079	<0.0000089	<0.000005	<0.0000054	<0.0000090	<0.0000055	<0.000005	0.0000671	<0.0000056	<0.0000093
MW-33	03/09/2016	<0.0000330	<0.0000578	<0.0000319	<0.0000717	<0.0000416	<0.0000706	<0.0000516	<0.0000558	<0.0000807	<0.0000559	<0.0000604	<0.0000635	<0.0000784	<0.0000534	<0.0000653	<0.0000513	<0.0000413
	03/29/2018	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	0.0000980 J	<0.0000055	<0.0000092
	03/20/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	<0.0000045	<0.0000055	<0.0000092
	03/25/2020	<0.000103	<0.0000869	<0.0000894	<0.000139	<0.0000589	<0.0000734	<0.000117	<0.000120	<0.000161	<0.0000784	-	<0.000162	<0.000104	<0.0000942	<0.000100	<0.0000878	<0.000134

Notes:
Lab Flags noted next to values. See lab report for description.
BRL - Below Reporting Limits

Analyte concentration exceeds the standard for:
NMWQCC Groundwater Standards

Table 4- Groundwater Analytical Data - MNA Supplement
Hobbs Junction Main Line
Hobbs, NM
SRS#: 2003-00017

Sample ID	Date Sampled	Methane (ug/L)	Ferrous Iron (mg/L)	Manganese (mg/L)	Phenolphthalein Alkalinity (mg/L)	Bicarbonate Alkalinity (mg/L)	Hydroxide Alkalinity (mg/L)	Carbonate Alkalinity (mg/L)	Alkalinity (mg/L)	Sulfate (mg/L)	Nitrate as N (mg/L)
MW-6	03/31/2008	-		BRL	-	-	-	-	-	66.7	3.50
MW-19	12/15/2021	4,180	<0.0500 HF	0.123	<4.00	575	<4.00	<4.00	575	17.8	0.193
	06/22/2022	486	<0.0280 HF	0.0887 B	<4.00	496	<4.00	<4.00	496	21.8	0.273
MW-21	06/22/2022	1,270	0.0300 J HF	0.0625 B	<4.00	364	<4.00	<4.00	364	43.0	0.210
	09/28/2022	627	0.0900	0.0691	<4.00	231	<4.00	<4.00	231	56.0	0.496
	12/29/2022	1,860	0.510	0.0611	<4.00	394	<4.00	<4.00	394	26.7	0.352
MW-23	06/20/2008	-	-	0.0430	-	198	BRL	BRL	198	158	3.70
	03/23/2022	1,500	<0.0280 HF	0.0478	<4.00	276	<4.00	<4.00	276	62.3	0.810
	06/22/2022	0.813 J	0.660	0.0232 B	<4.00	285	<4.00	<4.00	285	121	2.36
	09/29/2022	<0.453	0.470	0.00507	<4.00	268	<4.00	<4.00	268	121	1.95
	12/28/2022	<0.453	0.160	0.00528	<4.00	295	<4.00	<4.00	295	109	1.65
MW-24	06/20/2008	-	-	0.0280	-	238	BRL	BRL	238	154	5.27
	12/16/2021	<5.00	<0.0500 HF	0.00746	<4.00	220	<4.00	<4.00	220	105	2.31
	03/23/2022	<0.453	<0.0280 HF	0.00472	<4.00	215	<4.00	<4.00	215	125	2.35
	06/22/2022	0.979 J	0.0600	0.0130 B	<4.00	235	<4.00	<4.00	235	105	2.25
	09/29/2022	<0.453	0.280	0.00509	<4.00	227	<4.00	<4.00	227	108	2.26
	12/29/2022	0.554 J	0.160	0.00545	<4.00	234	<4.00	<4.00	234	95.4	2.30
MW-25	12/15/2021	2,970	0.0300 J HF	0.0783	<4.00	350	<4.00	<4.00	350	49.3	0.754
	03/23/2022	<0.453	<0.0280 HF	0.0215	<4.00	256	<4.00	<4.00	256	105	2.56
	09/27/2022	753	0.520	0.121	<4.00	259	<4.00	<4.00	259	74.9	0.678
	12/29/2022	1,330	0.0500	0.0267	<4.00	293	<4.00	<4.00	293	66.0	0.342

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

APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2132-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: Hobbs Junction Mainline

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKRAMER

Authorized for release by:
4/6/2022 8:21:47 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Laboratory Job ID: 890-2132-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Job ID: 890-2132-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2132-1

Receipt
The samples were received on 3/23/2022 12:36 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 5.8°C

GC VOA
Method RSK_175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-23 (890-2132-1). Elevated reporting limits (RLs) are provided.

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

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

Metals
Method 6020A: Due to the high concentration of Manganese the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 860-46514 and analytical batch 860-46667 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

General Chemistry
Method 3500_FE_D: The following samples were received outside of holding time: MW-23 (890-2132-1), MW-24 (890-2132-2) and MW-25 (890-2132-3).

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: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Client Sample ID: MW-23

Lab Sample ID: 890-2132-1
Matrix: Water
Date Collected: 03/23/22 07:30
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**1500**		50.0	4.53	ug/L			03/28/22 15:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*103*		*70 - 130*		*03/25/22 16:33*	*1*
Trifluoroethane	*93*		*70 - 130*		*03/28/22 15:49*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.810**		0.100	0.0391	mg/L			03/24/22 14:48	1
Sulfate	**62.3**		0.500	0.109	mg/L			03/24/22 14:48	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.0478**		0.00200	0.000199	mg/L		03/26/22 11:30	03/27/22 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**276**		4.00	4.00	mg/L			03/25/22 19:39	1
Bicarbonate Alkalinity as CaCO3	**276**		4.00	4.00	mg/L			03/25/22 19:39	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/25/22 19:39	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/22 19:39	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/22 19:39	1
Ferrous Iron	<0.0280	U HF	0.0500	0.0280	mg/L			03/24/22 11:28	1

Client Sample ID: MW-24

Lab Sample ID: 890-2132-2
Matrix: Water
Date Collected: 03/23/22 08:15
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.453	U	5.00	0.453	ug/L			03/25/22 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*103*		*70 - 130*		*03/25/22 16:49*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**2.35**		0.100	0.0391	mg/L			03/24/22 15:48	1
Sulfate	**125**		5.00	1.09	mg/L			03/24/22 18:46	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.00472**		0.00200	0.000199	mg/L		03/26/22 11:30	03/27/22 18:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**215**		4.00	4.00	mg/L			03/25/22 20:03	1
Bicarbonate Alkalinity as CaCO3	**215**		4.00	4.00	mg/L			03/25/22 20:03	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/25/22 20:03	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/22 20:03	1

Client Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Client Sample ID: MW-24

Lab Sample ID: 890-2132-2
Matrix: Water
Date Collected: 03/23/22 08:15
Date Received: 03/23/22 12:36
Sample Depth: N/A

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/22 20:03	1
Ferrous Iron	<0.0280	U HF	0.0500	0.0280	mg/L			03/24/22 11:28	1

Client Sample ID: MW-25

Lab Sample ID: 890-2132-3
Matrix: Water
Date Collected: 03/23/22 10:10
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.453	U	5.00	0.453	ug/L			03/25/22 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*103*		*70 - 130*		*03/25/22 17:06*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**2.56**		0.100	0.0391	mg/L			03/24/22 16:23	1
Sulfate	**105**		5.00	1.09	mg/L			03/24/22 18:57	10

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.0215**		0.00200	0.000199	mg/L		03/26/22 11:30	03/27/22 18:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**256**		4.00	4.00	mg/L			03/25/22 20:12	1
Bicarbonate Alkalinity as CaCO3	**256**		4.00	4.00	mg/L			03/25/22 20:12	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/25/22 20:12	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/22 20:12	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/22 20:12	1
Ferrous Iron	<0.0280	U HF	0.0500	0.0280	mg/L			03/24/22 11:28	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)							
		fluoroethan							
Lab Sample ID	Client Sample ID	(70-130)							
890-2132-1	MW-23	103							
890-2132-1	MW-23	93							
890-2132-2	MW-24	103							
890-2132-3	MW-25	103							
LCS 860-46373/7	Lab Control Sample	108							
LCS 860-46597/5	Lab Control Sample	104							
LCSD 860-46373/8	Lab Control Sample Dup	107							
LCSD 860-46597/6	Lab Control Sample Dup	105							
MB 860-46373/4	Method Blank	107							
MB 860-46597/4	Method Blank	104							

Surrogate Legend

Trifluoroethane = Trifluoroethane

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-46373/4
Matrix: Water
Analysis Batch: 46373

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.453	U	5.00	0.453	ug/L			03/25/22 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*107*		*70 - 130*		*03/25/22 12:21*	*1*

Lab Sample ID: LCS 860-46373/7
Matrix: Water
Analysis Batch: 46373

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			19.9	21.39		ug/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Trifluoroethane	*108*		*70 - 130*

Lab Sample ID: LCSD 860-46373/8
Matrix: Water
Analysis Batch: 46373

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
Methane			19.9	20.97		ug/L		105	70 - 130	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Trifluoroethane	*107*		*70 - 130*

Lab Sample ID: MB 860-46597/4
Matrix: Water
Analysis Batch: 46597

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.453	U	5.00	0.453	ug/L			03/28/22 12:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*104*		*70 - 130*		*03/28/22 12:46*	*1*

Lab Sample ID: LCS 860-46597/5
Matrix: Water
Analysis Batch: 46597

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			19.9	19.69		ug/L		99	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Trifluoroethane	*104*		*70 - 130*

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 860-46597/6
Matrix: Water
Analysis Batch: 46597

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
Methane			19.9	19.50		ug/L		98	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Trifluoroethane	*105*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-46210/3
Matrix: Water
Analysis Batch: 46210

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109	mg/L			03/24/22 13:25	1

Lab Sample ID: LCS 860-46210/6
Matrix: Water
Analysis Batch: 46210

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	9.616		mg/L		96	90 - 110		

Lab Sample ID: LCSD 860-46210/7
Matrix: Water
Analysis Batch: 46210

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
Sulfate			10.0	9.577		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-46210/5
Matrix: Water
Analysis Batch: 46210

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			0.500	0.5519		mg/L		110	50 - 150		

Lab Sample ID: 890-2132-1 MS
Matrix: Water
Analysis Batch: 46210

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	62.3		10.0	72.76	4	mg/L		105	90 - 110		

Lab Sample ID: 890-2132-1 MSD
Matrix: Water
Analysis Batch: 46210

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	62.3		10.0	72.93	4	mg/L		106	90 - 110	0	20

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-46211/3
Matrix: Water
Analysis Batch: 46211

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			03/24/22 13:25	1

Lab Sample ID: LCS 860-46211/6
Matrix: Water
Analysis Batch: 46211

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.479		mg/L		95	80 - 120

Lab Sample ID: LCSD 860-46211/7
Matrix: Water
Analysis Batch: 46211

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
Nitrate as N	10.0	9.491		mg/L		95	80 - 120	0	20

Lab Sample ID: LLCS 860-46211/4
Matrix: Water
Analysis Batch: 46211

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1347		mg/L		135	50 - 150

Lab Sample ID: 890-2132-1 MS
Matrix: Water
Analysis Batch: 46211

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.810		10.0	10.94		mg/L		101	80 - 120

Lab Sample ID: 890-2132-1 MSD
Matrix: Water
Analysis Batch: 46211

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.810		10.0	10.99		mg/L		102	80 - 120	0	15

Lab Sample ID: 890-2132-2 MS
Matrix: Water
Analysis Batch: 46211

Client Sample ID: MW-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	2.35		10.0	12.41		mg/L		101	80 - 120

Lab Sample ID: 890-2132-2 MSD
Matrix: Water
Analysis Batch: 46211

Client Sample ID: MW-24
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	2.35		10.0	12.44		mg/L		101	80 - 120	0	15

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-46514/1-A
Matrix: Water
Analysis Batch: 46667

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 46514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.000199	U	0.00200	0.000199	mg/L		03/26/22 11:30	03/27/22 18:10	1

Lab Sample ID: LCS 860-46514/2-A
Matrix: Water
Analysis Batch: 46667

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 46514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.09713		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-46514/3-A
Matrix: Water
Analysis Batch: 46667

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 46514

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.100	0.09933		mg/L		99	80 - 120	2	20

Lab Sample ID: 820-3742-F-2-B MS
Matrix: Water
Analysis Batch: 46667

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 46514

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	2.21	E	0.100	2.293	E 4	mg/L		87	75 - 125

Lab Sample ID: 820-3742-F-2-C MSD
Matrix: Water
Analysis Batch: 46667

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 46514

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	2.21	E	0.100	2.331	E 4	mg/L		125	75 - 125	2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-46499/3
Matrix: Water
Analysis Batch: 46499

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/22 18:08	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/25/22 18:08	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/25/22 18:08	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/22 18:08	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/22 18:08	1

Lab Sample ID: LCS 860-46499/4
Matrix: Water
Analysis Batch: 46499

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	256.5		mg/L		103	85 - 115

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-46499/5
Matrix: Water
Analysis Batch: 46499

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
Alkalinity	250	259.6		mg/L		104	85 - 115	1	20

Lab Sample ID: LLCS 860-46499/36
Matrix: Water
Analysis Batch: 46499

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	50.0	57.59		mg/L		115	50 - 150

Lab Sample ID: 880-12858-A-1 DU
Matrix: Water
Analysis Batch: 46499

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	644		666.8		mg/L		3	20
Bicarbonate Alkalinity as CaCO3	644		666.8		mg/L		3	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 860-47805/3
Matrix: Water
Analysis Batch: 47805

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			03/24/22 11:28	1

Lab Sample ID: LCS 860-47805/4
Matrix: Water
Analysis Batch: 47805

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	1.00	0.9500		mg/L		95	75 - 125

Lab Sample ID: LCSD 860-47805/5
Matrix: Water
Analysis Batch: 47805

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
Ferrous Iron	1.00	0.9500		mg/L		95	75 - 125	0	25

Lab Sample ID: 870-6543-A-2 DU
Matrix: Water
Analysis Batch: 47805

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	158		158.0		mg/L		0	25

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

GC VOA

Analysis Batch: 46373

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2132-1	MW-23	Total/NA	Water	RSK-175	
890-2132-2	MW-24	Total/NA	Water	RSK-175	
890-2132-3	MW-25	Total/NA	Water	RSK-175	
MB 860-46373/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-46373/7	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-46373/8	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 46597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2132-1	MW-23	Total/NA	Water	RSK-175	
MB 860-46597/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-46597/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-46597/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 46210

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2132-1	MW-23	Total/NA	Water	300.0	
890-2132-2	MW-24	Total/NA	Water	300.0	
890-2132-3	MW-25	Total/NA	Water	300.0	
MB 860-46210/3	Method Blank	Total/NA	Water	300.0	
LCS 860-46210/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-46210/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-46210/5	Lab Control Sample	Total/NA	Water	300.0	
890-2132-1 MS	MW-23	Total/NA	Water	300.0	
890-2132-1 MSD	MW-23	Total/NA	Water	300.0	

Analysis Batch: 46211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2132-1	MW-23	Total/NA	Water	300.0	
890-2132-2	MW-24	Total/NA	Water	300.0	
890-2132-3	MW-25	Total/NA	Water	300.0	
MB 860-46211/3	Method Blank	Total/NA	Water	300.0	
LCS 860-46211/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-46211/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-46211/4	Lab Control Sample	Total/NA	Water	300.0	
890-2132-1 MS	MW-23	Total/NA	Water	300.0	
890-2132-1 MSD	MW-23	Total/NA	Water	300.0	
890-2132-2 MS	MW-24	Total/NA	Water	300.0	
890-2132-2 MSD	MW-24	Total/NA	Water	300.0	

Metals

Prep Batch: 46514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2132-1	MW-23	Total/NA	Water	3010A	
890-2132-2	MW-24	Total/NA	Water	3010A	
890-2132-3	MW-25	Total/NA	Water	3010A	
MB 860-46514/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-46514/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-46514/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Metals (Continued)

Prep Batch: 46514 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3742-F-2-B MS	Matrix Spike	Total/NA	Water	3010A	
820-3742-F-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

Analysis Batch: 46667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2132-1	MW-23	Total/NA	Water	6020A	46514
890-2132-2	MW-24	Total/NA	Water	6020A	46514
890-2132-3	MW-25	Total/NA	Water	6020A	46514
MB 860-46514/1-A	Method Blank	Total/NA	Water	6020A	46514
LCS 860-46514/2-A	Lab Control Sample	Total/NA	Water	6020A	46514
LCSD 860-46514/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	46514
820-3742-F-2-B MS	Matrix Spike	Total/NA	Water	6020A	46514
820-3742-F-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	46514

General Chemistry

Analysis Batch: 46499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2132-1	MW-23	Total/NA	Water	SM 2320B	
890-2132-2	MW-24	Total/NA	Water	SM 2320B	
890-2132-3	MW-25	Total/NA	Water	SM 2320B	
MB 860-46499/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-46499/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-46499/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
LLCS 860-46499/36	Lab Control Sample	Total/NA	Water	SM 2320B	
880-12858-A-1 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 47805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2132-1	MW-23	Total/NA	Water	SM 3500 FE D	
890-2132-2	MW-24	Total/NA	Water	SM 3500 FE D	
890-2132-3	MW-25	Total/NA	Water	SM 3500 FE D	
MB 860-47805/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-47805/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 860-47805/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	
870-6543-A-2 DU	Duplicate	Total/NA	Water	SM 3500 FE D	

Lab Chronicle

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Client Sample ID: MW-23

Date Collected: 03/23/22 07:30
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2132-1
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	RSK-175		1	33 mL	33 mL	46373	03/25/22 16:33	CZT	XEN STF
Total/NA	Analysis	RSK-175		10	33 mL	33 mL	46597	03/28/22 15:49	CZT	XEN STF
Total/NA	Analysis	300.0		1			46210	03/24/22 14:48	WP	XEN STF
Total/NA	Analysis	300.0		1			46211	03/24/22 14:48	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	46514	03/26/22 11:30	MD	XEN STF
Total/NA	Analysis	6020A		1			46667	03/27/22 18:51	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			46499	03/25/22 19:39	TL	XEN STF
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	47805	03/24/22 11:28	ANP	XEN STF

Client Sample ID: MW-24

Date Collected: 03/23/22 08:15
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2132-2
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	RSK-175		1	33 mL	33 mL	46373	03/25/22 16:49	CZT	XEN STF
Total/NA	Analysis	300.0		1			46211	03/24/22 15:48	WP	XEN STF
Total/NA	Analysis	300.0		10			46210	03/24/22 18:46	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	46514	03/26/22 11:30	MD	XEN STF
Total/NA	Analysis	6020A		1			46667	03/27/22 18:54	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			46499	03/25/22 20:03	TL	XEN STF
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	47805	03/24/22 11:28	ANP	XEN STF

Client Sample ID: MW-25

Date Collected: 03/23/22 10:10
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2132-3
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	RSK-175		1	33 mL	33 mL	46373	03/25/22 17:06	CZT	XEN STF
Total/NA	Analysis	300.0		1			46211	03/24/22 16:23	WP	XEN STF
Total/NA	Analysis	300.0		10			46210	03/24/22 18:57	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	46514	03/26/22 11:30	MD	XEN STF
Total/NA	Analysis	6020A		1			46667	03/27/22 18:58	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			46499	03/25/22 20:12	TL	XEN STF
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	47805	03/24/22 11:28	ANP	XEN STF

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22

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
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
6020A	Metals (ICP/MS)	SW846	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	XEN STF
3010A	Preparation, Total Metals	SW846	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2132-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2132-1	MW-23	Water	03/23/22 07:30	03/23/22 12:36	N/A
890-2132-2	MW-24	Water	03/23/22 08:15	03/23/22 12:36	N/A
890-2132-3	MW-25	Water	03/23/22 10:10	03/23/22 12:36	N/A

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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
Company Name:	Talon LPE	Company Name:	Pipeline
Address:	408 Texas St.	Address:	Attn: Camille Bryant
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline	Turn Around	☑ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	R.B./D.W./M.G.		
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	NM-007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	6.0
Total Containers:		Corrected Temperature:	5.8

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: MNA Parameters
MW-23	GW	3/23/22	7:30	N/A		6		X
MW-24			8:15			6		X
MW-25			10:10			6		X

890-2132 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_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 Comments

Email Analyticals to:
CTBryant@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	Matthew Gomez		3 23 22 1236			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-683.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 890-2132-1
Address: 4145 Greenbriar Dr	Due Date Requested: 3/29/2022			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Hobbs Junction Mainline	Project #: 89000047			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)
Other

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ Sulfate	300_ORGFMIS/ (MOD) Nitrate	350D_FE_D/ Ferrous Iron	2320B/ Alkalinity	6020A/3010A (MOD) Manganese	RSK_175/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
Preservation Code:														
MW-23 (890-2132-1)	3/23/22	07:30 Mountain		Water			X	X	X	X	X	X	6	
MW-24 (890-2132-2)	3/23/22	08:15 Mountain		Water			X	X	X	X	X	X	6	
MW-25 (890-2132-3)	3/23/22	10:10 Mountain		Water			X	X	X	X	X	X	6	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Clue Clup 3 23 22			FedEx		
Relinquished by: FedEx	Date/Time:	Company	Received by: Paul Palmer	Date/Time: 3/23/2022 10:58	Company EX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks	Temp: 2.2 IR ID:HOU-223 C/F:-0.1 Corrected Temp: 2.1

06/08/2021

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2132-1
SDG Number: Lea County

Login Number: 2132
List Number: 1
Creator: Clifton, Cloe

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: 890-2132-1
SDG Number: Lea County

Login Number: 2132
List Number: 2
Creator: Palmar, Pedro

List Source: Eurofins Houston
List Creation: 03/24/22 12:05 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?	N/A	
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	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2133-1
Laboratory Sample Delivery Group: Leas County NM
Client Project/Site: Hobbs Junction Mainline

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKRAMER

Authorized for release by:
4/4/2022 2:36:02 PM

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Laboratory Job ID: 890-2133-1
SDG: Leas County NM

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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.
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: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Job ID: 890-2133-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2133-1

Receipt
The samples were received on 3/23/2022 12:36 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 5.8°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-22605 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: MW-25 (890-2133-7). 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: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Client Sample ID: MW-23

Lab Sample ID: 890-2133-1
Matrix: Water
Date Collected: 03/23/22 07:30
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: 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			03/30/22 11:43	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/30/22 11:43	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/30/22 11:43	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/30/22 11:43	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/30/22 11:43	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/30/22 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/30/22 11:43*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*03/30/22 11:43*	*1*

Method: 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			03/30/22 17:52	1

Client Sample ID: MW-24

Lab Sample ID: 890-2133-2
Matrix: Water
Date Collected: 03/23/22 08:15
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: 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			03/30/22 12:10	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/30/22 12:10	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/30/22 12:10	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/30/22 12:10	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/30/22 12:10	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/30/22 12:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/30/22 12:10*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*03/30/22 12:10*	*1*

Method: 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			03/30/22 17:52	1

Client Sample ID: MW-28

Lab Sample ID: 890-2133-3
Matrix: Water
Date Collected: 03/23/22 08:45
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: 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			03/31/22 12:52	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/31/22 12:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/22 12:52	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/22 12:52	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/22 12:52	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/22 12:52	1

Client Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Client Sample ID: MW-28

Lab Sample ID: 890-2133-3
Matrix: Water
Date Collected: 03/23/22 08:45
Date Received: 03/23/22 12:36
Sample Depth: N/A

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130		03/31/22 12:52	1
1,4-Difluorobenzene (Surr)	83		70 - 130		03/31/22 12:52	1

Method: 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			03/30/22 17:52	1

Client Sample ID: MW-33

Lab Sample ID: 890-2133-4
Matrix: Water
Date Collected: 03/23/22 09:00
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: 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			03/31/22 13:19	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/31/22 13:19	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/22 13:19	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/22 13:19	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/22 13:19	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/22 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130		03/31/22 13:19	1
1,4-Difluorobenzene (Surr)	92		70 - 130		03/31/22 13:19	1

Method: 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			03/30/22 17:52	1

Client Sample ID: MW-7

Lab Sample ID: 890-2133-5
Matrix: Water
Date Collected: 03/23/22 09:15
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: 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			03/31/22 07:35	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/31/22 07:35	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/22 07:35	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/22 07:35	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/22 07:35	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/22 07:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130		03/31/22 07:35	1
1,4-Difluorobenzene (Surr)	87		70 - 130		03/31/22 07:35	1

Method: 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			03/30/22 17:52	1

Client Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Client Sample ID: MW-19

Lab Sample ID: 890-2133-6
Matrix: Water
Date Collected: 03/23/22 09:15
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0110**		0.00200	0.000408	mg/L			03/31/22 08:00	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/31/22 08:00	1
Ethylbenzene	**0.0880**		0.00200	0.000657	mg/L			03/31/22 08:00	1
m-Xylene & p-Xylene	**0.00490**		0.00400	0.000629	mg/L			03/31/22 08:00	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/22 08:00	1
Xylenes, Total	**0.00490**		0.00400	0.000642	mg/L			03/31/22 08:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*		*03/31/22 08:00*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*03/31/22 08:00*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.104**		0.00400	0.000657	mg/L			03/30/22 17:52	1

Client Sample ID: MW-25

Lab Sample ID: 890-2133-7
Matrix: Water
Date Collected: 03/23/22 10:10
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.26**		0.200	0.0408	mg/L			03/31/22 16:30	100
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/31/22 08:26	1
Ethylbenzene	**0.0676**		0.00200	0.000657	mg/L			03/31/22 08:26	1
m-Xylene & p-Xylene	**0.0487**		0.00400	0.000629	mg/L			03/31/22 08:26	1
o-Xylene	**0.00136**	**J**	0.00200	0.000642	mg/L			03/31/22 08:26	1
Xylenes, Total	**0.0501**		0.00400	0.000642	mg/L			03/31/22 08:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*03/31/22 08:26*	*1*
1,4-Difluorobenzene (Surr)	*196*	*S1+*	*70 - 130*		*03/31/22 08:26*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**1.38**		0.00400	0.000657	mg/L			03/30/22 17:52	1

Client Sample ID: MW-22

Lab Sample ID: 890-2133-8
Matrix: Water
Date Collected: 03/23/22 08:38
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: 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			03/31/22 13:46	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/31/22 13:46	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/22 13:46	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/22 13:46	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/22 13:46	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/22 13:46	1

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Client Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Client Sample ID: MW-22

Lab Sample ID: 890-2133-8
Matrix: Water
Date Collected: 03/23/22 08:38
Date Received: 03/23/22 12:36
Sample Depth: N/A

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		03/31/22 08:52	1
1,4-Difluorobenzene (Surr)	89		70 - 130		03/31/22 08:52	1

Method: 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			03/30/22 17:52	1

Client Sample ID: MW-21

Lab Sample ID: 890-2133-9
Matrix: Water
Date Collected: 03/23/22 09:00
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.91	J	2.00	0.408	mg/L			03/31/22 16:56	1000
Toluene	0.574	J	2.00	0.367	mg/L			03/31/22 16:56	1000
Ethylbenzene	<0.657	U	2.00	0.657	mg/L			03/31/22 16:56	1000
m-Xylene & p-Xylene	0.730	J	4.00	0.629	mg/L			03/31/22 16:56	1000
o-Xylene	<0.642	U	2.00	0.642	mg/L			03/31/22 16:56	1000
Xylenes, Total	0.730	J	4.00	0.642	mg/L			03/31/22 16:56	1000

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130		03/31/22 16:56	1000
1,4-Difluorobenzene (Surr)	82		70 - 130		03/31/22 16:56	1000

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	3.21	J	4.00	0.657	mg/L			03/30/22 17:52	1

Client Sample ID: MW-32

Lab Sample ID: 890-2133-10
Matrix: Water
Date Collected: 03/23/22 09:26
Date Received: 03/23/22 12:36
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00115	J	0.00200	0.000408	mg/L			03/31/22 09:19	1
Toluene	0.000388	J	0.00200	0.000367	mg/L			03/31/22 09:19	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/22 09:19	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/22 09:19	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/22 09:19	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/22 09:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		03/31/22 09:19	1
1,4-Difluorobenzene (Surr)	95		70 - 130		03/31/22 09:19	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00154	J	0.00400	0.000657	mg/L			03/30/22 17:52	1

Client Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Client Sample ID: MW-31
Date Collected: 03/23/22 09:49
Date Received: 03/23/22 12:36
Sample Depth: N/A

Lab Sample ID: 890-2133-11
Matrix: Water

Method: 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			03/31/22 09:46	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/31/22 09:46	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/22 09:46	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/22 09:46	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/22 09:46	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/22 09:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/31/22 09:46*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*03/31/22 09:46*	*1*

Method: 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			03/30/22 17:52	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
880-12763-C-10 MS	Matrix Spike	103	106										
880-12763-C-10 MSD	Matrix Spike Duplicate	102	100										
880-12821-A-7 MS	Matrix Spike	108	102										
880-12821-A-7 MSD	Matrix Spike Duplicate	99	100										
890-2133-1	MW-23	105	99										
890-2133-2	MW-24	104	88										
890-2133-3	MW-28	115	83										
890-2133-4	MW-33	106	92										
890-2133-5	MW-7	101	87										
890-2133-6	MW-19	120	93										
890-2133-7	MW-25	119	196 S1+										
890-2133-8	MW-22	103	89										
890-2133-9	MW-21	110	82										
890-2133-10	MW-32	102	95										
890-2133-11	MW-31	104	93										
LCS 880-22561/3	Lab Control Sample	98	104										
LCS 880-22605/34	Lab Control Sample	107	101										
LCSD 880-22561/4	Lab Control Sample Dup	97	106										
LCSD 880-22605/35	Lab Control Sample Dup	102	99										
MB 880-22509/5-A	Method Blank	69 S1-	90										
MB 880-22561/8	Method Blank	53871 S1+	44 S1-										
MB 880-22605/39	Method Blank	70	88										

Surrogate Legend

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

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22509/5-A
Matrix: Water
Analysis Batch: 22605

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22509

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/30/22 07:30	03/30/22 16:18	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/30/22 07:30	03/30/22 16:18	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/30/22 07:30	03/30/22 16:18	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/30/22 07:30	03/30/22 16:18	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/30/22 07:30	03/30/22 16:18	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/30/22 07:30	03/30/22 16:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*03/30/22 07:30*	*03/30/22 16:18*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*03/30/22 07:30*	*03/30/22 16:18*	*1*

Lab Sample ID: MB 880-22561/8
Matrix: Water
Analysis Batch: 22561

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0006845	J	0.00200	0.000408	mg/L			03/29/22 17:54	1
Toluene	0.0009729	J	0.00200	0.000367	mg/L			03/29/22 17:54	1
Ethylbenzene	0.002373		0.00200	0.000657	mg/L			03/29/22 17:54	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/29/22 17:54	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/29/22 17:54	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/29/22 17:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*53871*	*S1+*	*70 - 130*		*03/29/22 17:54*	*1*
1,4-Difluorobenzene (Surr)	*44*	*S1-*	*70 - 130*		*03/29/22 17:54*	*1*

Lab Sample ID: LCS 880-22561/3
Matrix: Water
Analysis Batch: 22561

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	0.1172		mg/L		117	70 - 130
Toluene	0.100	0.1191		mg/L		119	70 - 130
Ethylbenzene	0.100	0.1132		mg/L		113	70 - 130
m-Xylene & p-Xylene	0.200	0.2304		mg/L		115	70 - 130
o-Xylene	0.100	0.1129		mg/L		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-22561/4
Matrix: Water
Analysis Batch: 22561

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	0.1262		mg/L		126	70 - 130	7	20

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

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

Lab Sample ID: LCSD 880-22561/4
Matrix: Water
Analysis Batch: 22561

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	0.1161		mg/L		116	70 - 130	3	20
Ethylbenzene			0.100	0.1095		mg/L		110	70 - 130	3	20
m-Xylene & p-Xylene			0.200	0.2229		mg/L		111	70 - 130	3	20
o-Xylene			0.100	0.1121		mg/L		112	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-12763-C-10 MS
Matrix: Water
Analysis Batch: 22561

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	0.00115	J F1 B	0.100	0.1318	F1	mg/L		131	70 - 130
Toluene	0.00554	B	0.100	0.1201		mg/L		115	70 - 130
Ethylbenzene	0.00118	J B	0.100	0.1124		mg/L		111	70 - 130
m-Xylene & p-Xylene	0.00277	J	0.200	0.2287		mg/L		113	70 - 130
o-Xylene	<0.000642	U	0.100	0.1128		mg/L		113	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-12763-C-10 MSD
Matrix: Water
Analysis Batch: 22561

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	0.00115	J F1 B	0.100	0.1383	F1	mg/L		137	70 - 130	5	25
Toluene	0.00554	B	0.100	0.1266		mg/L		121	70 - 130	5	25
Ethylbenzene	0.00118	J B	0.100	0.1175		mg/L		116	70 - 130	4	25
m-Xylene & p-Xylene	0.00277	J	0.200	0.2386		mg/L		118	70 - 130	4	25
o-Xylene	<0.000642	U	0.100	0.1175		mg/L		117	70 - 130	4	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-22605/39
Matrix: Water
Analysis Batch: 22605

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			03/31/22 05:54	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/31/22 05:54	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/22 05:54	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/22 05:54	1

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

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

Lab Sample ID: MB 880-22605/39
Matrix: Water
Analysis Batch: 22605

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/22 05:54	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/22 05:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*		*03/31/22 05:54*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*		*03/31/22 05:54*	*1*

Lab Sample ID: LCS 880-22605/34
Matrix: Water
Analysis Batch: 22605

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	0.1147		mg/L		115	70 - 130		
Toluene			0.100	0.1038		mg/L		104	70 - 130		
Ethylbenzene			0.100	0.09613		mg/L		96	70 - 130		
m-Xylene & p-Xylene			0.200	0.1945		mg/L		97	70 - 130		
o-Xylene			0.100	0.1016		mg/L		102	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-22605/35
Matrix: Water
Analysis Batch: 22605

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	0.1145		mg/L		114	70 - 130	0	20
Toluene			0.100	0.1049		mg/L		105	70 - 130	1	20
Ethylbenzene			0.100	0.09363		mg/L		94	70 - 130	3	20
m-Xylene & p-Xylene			0.200	0.1878		mg/L		94	70 - 130	3	20
o-Xylene			0.100	0.09594		mg/L		96	70 - 130	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-12821-A-7 MS
Matrix: Water
Analysis Batch: 22605

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 F1	0.100	0.1349	F1	mg/L		135	70 - 130		
Toluene	<0.000367	U	0.100	0.1210		mg/L		121	70 - 130		
Ethylbenzene	<0.000657	U	0.100	0.09611		mg/L		96	70 - 130		
m-Xylene & p-Xylene	0.000691	J F2 F1	0.200	0.01888	F1	mg/L		9	70 - 130		
o-Xylene	<0.000642	U	0.100	0.1099		mg/L		110	70 - 130		

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

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

Lab Sample ID: 880-12821-A-7 MS
Matrix: Water
Analysis Batch: 22605

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

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-12821-A-7 MSD
Matrix: Water
Analysis Batch: 22605

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 F1	0.100	0.1376	F1	mg/L		138	70 - 130	2	25
Toluene	<0.000367	U	0.100	0.1223		mg/L		122	70 - 130	1	25
Ethylbenzene	<0.000657	U	0.100	0.1044		mg/L		104	70 - 130	8	25
m-Xylene & p-Xylene	0.000691	J F2 F1	0.200	0.2124	F2	mg/L		106	70 - 130	167	25
o-Xylene	<0.000642	U	0.100	0.1095		mg/L		109	70 - 130	0	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

GC VOA

Prep Batch: 22509

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22509/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 22561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2133-1	MW-23	Total/NA	Water	8021B	
890-2133-2	MW-24	Total/NA	Water	8021B	
MB 880-22561/8	Method Blank	Total/NA	Water	8021B	
LCS 880-22561/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-22561/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-12763-C-10 MS	Matrix Spike	Total/NA	Water	8021B	
880-12763-C-10 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 22605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2133-3	MW-28	Total/NA	Water	8021B	
890-2133-4	MW-33	Total/NA	Water	8021B	
890-2133-5	MW-7	Total/NA	Water	8021B	
890-2133-6	MW-19	Total/NA	Water	8021B	
890-2133-7	MW-25	Total/NA	Water	8021B	
890-2133-7	MW-25	Total/NA	Water	8021B	
890-2133-8	MW-22	Total/NA	Water	8021B	
890-2133-8	MW-22	Total/NA	Water	8021B	
890-2133-9	MW-21	Total/NA	Water	8021B	
890-2133-10	MW-32	Total/NA	Water	8021B	
890-2133-11	MW-31	Total/NA	Water	8021B	
MB 880-22509/5-A	Method Blank	Total/NA	Water	8021B	22509
MB 880-22605/39	Method Blank	Total/NA	Water	8021B	
LCS 880-22605/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-22605/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-12821-A-7 MS	Matrix Spike	Total/NA	Water	8021B	
880-12821-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 22679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2133-1	MW-23	Total/NA	Water	Total BTEX	
890-2133-2	MW-24	Total/NA	Water	Total BTEX	
890-2133-3	MW-28	Total/NA	Water	Total BTEX	
890-2133-4	MW-33	Total/NA	Water	Total BTEX	
890-2133-5	MW-7	Total/NA	Water	Total BTEX	
890-2133-6	MW-19	Total/NA	Water	Total BTEX	
890-2133-7	MW-25	Total/NA	Water	Total BTEX	
890-2133-8	MW-22	Total/NA	Water	Total BTEX	
890-2133-9	MW-21	Total/NA	Water	Total BTEX	
890-2133-10	MW-32	Total/NA	Water	Total BTEX	
890-2133-11	MW-31	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Client Sample ID: MW-23
Date Collected: 03/23/22 07:30
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2133-1
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	22561	03/30/22 11:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			22679	03/30/22 17:52	AJ	XEN MID

Client Sample ID: MW-24
Date Collected: 03/23/22 08:15
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2133-2
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	22561	03/30/22 12:10	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			22679	03/30/22 17:52	AJ	XEN MID

Client Sample ID: MW-28
Date Collected: 03/23/22 08:45
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2133-3
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	22605	03/31/22 12:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			22679	03/30/22 17:52	AJ	XEN MID

Client Sample ID: MW-33
Date Collected: 03/23/22 09:00
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2133-4
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	22605	03/31/22 13:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			22679	03/30/22 17:52	AJ	XEN MID

Client Sample ID: MW-7
Date Collected: 03/23/22 09:15
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2133-5
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	22605	03/31/22 07:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			22679	03/30/22 17:52	AJ	XEN MID

Client Sample ID: MW-19
Date Collected: 03/23/22 09:15
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2133-6
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	22605	03/31/22 08:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			22679	03/30/22 17:52	AJ	XEN MID

Lab Chronicle

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Client Sample ID: MW-25
Date Collected: 03/23/22 10:10
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2133-7
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	22605	03/31/22 08:26	MR	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	22605	03/31/22 16:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			22679	03/30/22 17:52	AJ	XEN MID

Client Sample ID: MW-22
Date Collected: 03/23/22 08:38
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2133-8
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	22605	03/31/22 08:52	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22605	03/31/22 13:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			22679	03/30/22 17:52	AJ	XEN MID

Client Sample ID: MW-21
Date Collected: 03/23/22 09:00
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2133-9
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		1000	5 mL	5 mL	22605	03/31/22 16:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			22679	03/30/22 17:52	AJ	XEN MID

Client Sample ID: MW-32
Date Collected: 03/23/22 09:26
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2133-10
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	22605	03/31/22 09:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			22679	03/30/22 17:52	AJ	XEN MID

Client Sample ID: MW-31
Date Collected: 03/23/22 09:49
Date Received: 03/23/22 12:36

Lab Sample ID: 890-2133-11
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	22605	03/31/22 09:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			22679	03/30/22 17:52	AJ	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

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	T104704400-21-22	06-30-22

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: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

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

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

Sample Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-2133-1
SDG: Leas County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2133-1	MW-23	Water	03/23/22 07:30	03/23/22 12:36	N/A
890-2133-2	MW-24	Water	03/23/22 08:15	03/23/22 12:36	N/A
890-2133-3	MW-28	Water	03/23/22 08:45	03/23/22 12:36	N/A
890-2133-4	MW-33	Water	03/23/22 09:00	03/23/22 12:36	N/A
890-2133-5	MW-7	Water	03/23/22 09:15	03/23/22 12:36	N/A
890-2133-6	MW-19	Water	03/23/22 09:15	03/23/22 12:36	N/A
890-2133-7	MW-25	Water	03/23/22 10:10	03/23/22 12:36	N/A
890-2133-8	MW-22	Water	03/23/22 08:38	03/23/22 12:36	N/A
890-2133-9	MW-21	Water	03/23/22 09:00	03/23/22 12:36	N/A
890-2133-10	MW-32	Water	03/23/22 09:26	03/23/22 12:36	N/A
890-2133-11	MW-31	Water	03/23/22 09:49	03/23/22 12:36	N/A

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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 2

Project Manager:	David Adkins	Bill to: (if different)	Plains All American
Company Name:	Talon LPE	Company Name:	Pipeline
Address:	408 Texas St	Address:	Attn: Camille Bryant
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline	Turn Around	☑ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	R.B/D.W./M.G.		
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	NM007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	6.0	
Total Containers:		Corrected Temperature:	5.8	

ANALYSIS REQUEST

Pres. Code

Parameters: BTEX 8021B

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_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		Sample Comments
MW-23	GW	3/23/22	7:30	N/A		3	X	Email Analytical to: CJBryant@paalp.com MaOchoa@paalp.com
MW-24			8:15					
MW-28			8:45					
MW-33			9:00					
MW-7			9:15					
MW-19			9:15					
MW-25			10:10					
MW-22			8:38					
MW-21			9:00					
MW-32			9:26					

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 Matthew Gomez		3 23 22 1236	4		
3			6		
5					

Revised Date: 08/25/2020 Rev: 2020.2

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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 2 of 2

Project Manager:	David Adkins	Bill to: (if different)	Plains All American
Company Name:	Talon LPE	Company Name:	Pipeline
Address:	408 Texas St.	Address:	Attn: Camille Bryant
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	Lea County	Due Date:	
Sampler's Name:	RiB,	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2003-00017		

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B
MW-31	GW	3/23/22	9:49	N/A		3		X

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_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 Comments

Email Analyticals to:
CJBryant@paalp.com
MaDchao@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	Matthew Gomez		32322 1230			
3						
5						

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Carlsbad
1089 N Canal St
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-684 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-2133-1
Address: 1211 W Florida Ave ,	Due Date Requested: 3/29/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Hobbs Junction Mainline	Project #: 89000047			
Site:	SSOW#:			

Preservation Codes

A - HCL	M - Hexane
B - NaOH	N None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P Na2O4S
E NaHSO4	Q - Na2SO3
F MeOH	R Na2S2O3
G Amchlor	S H2SO4
H - Ascorbic Acid	T TSP Dodecahydrate
I - Ice	U - Acetone
J DI Water	V MCAA
K EDTA	W - pH 4-5
L EDA	Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5030B BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-23 (890-2133-1)	3/23/22	07 30 Mountain		Water			X	X	3	
MW-24 (890-2133-2)	3/23/22	08 15 Mountain		Water			X	X	3	
MW-28 (890-2133-3)	3/23/22	08 45 Mountain		Water			X	X	3	
MW-33 (890-2133-4)	3/23/22	09 00 Mountain		Water			X	X	3	
MW-7 (890-2133-5)	3/23/22	09 15 Mountain		Water			X	X	3	
MW-19 (890-2133-9)	3/23/22	09 15 Mountain		Water			X	X	3	
MW-25 (890-2133-7)	3/23/22	10 10 Mountain		Water			X	X	3	
MW-22 (890-2133-8)	3/23/22	08 38 Mountain		Water			X	X	3	
MW-21 (890-2133-9)	3/23/22	09 00 Mountain		Water			X	X	3	

Note. Since laboratory accreditations are subject to change Eurofins Environment Testing South Central, LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Clw Chf 3 23 22				3/24/22 10 35	
2						
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		3 3/3.2 -1 IR8

Ver: 06/08/2021

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone 575-988-3199 Fax 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer, Jessica	Carrier Tracking No(s):	COC No: 890-684 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Texas		Job #: 890-2133-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 3/29/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Hobbs Junction Mainline	Project #: 89000047			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5030B BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-32 (890-2133-10)	3/23/22	09 26 Mountain		Water			X	X	3	
MW-31 (890-2133-11)	3/23/22	09 49 Mountain		Water			X	X	3	

Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I, II III, IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Relinquished by: [signature] 3 23 22	Date/Time:	Company	Received by: [signature]	Date/Time: 3/24/22 10:35	Company
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks
		3.3/3.2 -.1 IR

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2133-1
SDG Number: Leas County NM

Login Number: 2133
List Number: 1
Creator: Clifton, Cloe

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: 890-2133-1
SDG Number: Leas County NM

Login Number: 2133
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/24/22 10:41 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2449-1
Client Project/Site: Hobbs Junction Mainline (HJM)

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKramer

Authorized for release by:
6/30/2022 7:54:41 PM

Jessica Kramer, Project Manager
(432)704-5440
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Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory Job ID: 890-2449-1

Table of Contents

Definitions/Glossary

Client: Talon/LPE Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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)

Definitions/Glossary

Client: Talon/LPE
Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-2449-1

Job ID: 890-2449-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2449-1

Receipt
The samples were received on 6/22/2022 12:36 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 1.6°C

GC VOA
Method RSK_175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-21 (890-2449-1). Elevated reporting limits (RLs) are provided.

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

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

Metals
Method 6020A: The method blank for preparation batch 860-59053 and analytical batch 860-59293 contained Manganese above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore re-analysis of samples was not performed.

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

General Chemistry
Method 3500_FE_D: The following samples were received outside of holding time: MW-21 (890-2449-1), MW-19 (890-2449-2), (870-9005-A-1) and (870-9005-A-1 DU).

Method 3500_FE_D: The following samples were received outside of holding time: MW-24 (890-2449-3), MW-23 (890-2449-4) and (890-2449-B-3 DU).

Method 3500_FE_D: The following samples were received outside of holding time: MW-24 (890-2449-3), MW-23 (890-2449-4) and (890-2449-B-3 DU).

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
Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-21
Lab Sample ID: 890-2449-1
Date Collected: 06/22/22 10:00
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**1.27**		0.100	0.00905	mg/L			06/27/22 12:11	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*92*		*70 - 130*		*06/24/22 11:02*	*1*
Trifluoroethane	*91*		*70 - 130*		*06/27/22 12:11*	*20*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.210**		0.100	0.0391	mg/L			06/23/22 13:29	1
Sulfate	**43.0**		0.500	0.109	mg/L			06/23/22 13:29	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.0625**	**B**	0.00200	0.000199	mg/L		06/29/22 09:30	06/30/22 00:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**364**		4.00	4.00	mg/L			06/27/22 13:05	1
Bicarbonate Alkalinity as CaCO3	**364**		4.00	4.00	mg/L			06/27/22 13:05	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/27/22 13:05	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			06/27/22 13:05	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			06/27/22 13:05	1
Ferrous Iron	**0.0300**	**J HF**	0.0500	0.0280	mg/L			06/28/22 20:52	1

Client Sample ID: MW-19
Lab Sample ID: 890-2449-2
Date Collected: 06/22/22 08:58
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.486**		0.00500	0.000453	mg/L			06/24/22 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*90*		*70 - 130*		*06/24/22 11:19*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.273**		0.100	0.0391	mg/L			06/23/22 14:31	1
Sulfate	**21.8**		0.500	0.109	mg/L			06/23/22 14:31	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.0887**	**B**	0.00200	0.000199	mg/L		06/29/22 09:30	06/30/22 00:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**496**		4.00	4.00	mg/L			06/27/22 13:15	1
Bicarbonate Alkalinity as CaCO3	**496**		4.00	4.00	mg/L			06/27/22 13:15	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/27/22 13:15	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			06/27/22 13:15	1

Client Sample Results

Client: Talon/LPE
Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-19
Lab Sample ID: 890-2449-2
Date Collected: 06/22/22 08:58
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			06/27/22 13:15	1
Ferrous Iron	<0.0280	U HF	0.0500	0.0280	mg/L			06/28/22 20:52	1

Client Sample ID: MW-24
Lab Sample ID: 890-2449-3
Date Collected: 06/22/22 07:48
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.000979**	**J**	0.00500	0.000453	mg/L			06/24/22 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*92*		*70 - 130*		*06/24/22 11:35*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**2.25**		0.100	0.0391	mg/L			06/23/22 14:44	1
Sulfate	**105**		0.500	0.109	mg/L			06/23/22 14:44	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.0130**	**B**	0.00200	0.000199	mg/L		06/29/22 09:30	06/30/22 00:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**235**		4.00	4.00	mg/L			06/28/22 11:45	1
Bicarbonate Alkalinity as CaCO3	**235**		4.00	4.00	mg/L			06/28/22 11:45	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/28/22 11:45	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			06/28/22 11:45	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			06/28/22 11:45	1
Ferrous Iron	**0.0600**	**HF**	0.0500	0.0280	mg/L			06/28/22 20:52	1

Client Sample ID: MW-23
Lab Sample ID: 890-2449-4
Date Collected: 06/22/22 06:48
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.000813**	**J**	0.00500	0.000453	mg/L			06/24/22 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*91*		*70 - 130*		*06/24/22 11:52*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**2.36**		0.100	0.0391	mg/L			06/23/22 14:56	1
Sulfate	**121**		0.500	0.109	mg/L			06/23/22 14:56	1

Client Sample Results

Client: Talon/LPE
Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-23
Lab Sample ID: 890-2449-4
Date Collected: 06/22/22 06:48
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.0232**	**B**	0.00200	0.000199	mg/L		06/29/22 09:30	06/30/22 00:49	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**285**		4.00	4.00	mg/L			06/28/22 11:54	1
Bicarbonate Alkalinity as CaCO3	**285**		4.00	4.00	mg/L			06/28/22 11:54	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/28/22 11:54	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			06/28/22 11:54	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			06/28/22 11:54	1
Ferrous Iron	**0.660**	**HF**	0.0500	0.0280	mg/L			06/28/22 20:52	1

Surrogate Summary

Client: Talon/LPE Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Method: RSK-175 - Dissolved Gases (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)							
		fluoroethar							
Lab Sample ID	Client Sample ID	(70-130)							
890-2449-1	MW-21	92							
890-2449-1	MW-21	91							
890-2449-2	MW-19	90							
890-2449-3	MW-24	92							
890-2449-4	MW-23	91							
LCS 860-58335/5	Lab Control Sample	91							
LCS 860-58616/5	Lab Control Sample	93							
LCSD 860-58335/6	Lab Control Sample Dup	93							
LCSD 860-58616/6	Lab Control Sample Dup	94							
MB 860-58335/4	Method Blank	93							
MB 860-58616/4	Method Blank	92							

Surrogate Legend

Trifluoroethane = Trifluoroethane

QC Sample Results

Client: Talon/LPE
Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-58335/4
Matrix: Water
Analysis Batch: 58335

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			06/24/22 09:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*93*		*70 - 130*		*06/24/22 09:07*	*1*

Lab Sample ID: LCS 860-58335/5
Matrix: Water
Analysis Batch: 58335

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			0.0199	0.01744		mg/L		88	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Trifluoroethane	*91*		*70 - 130*

Lab Sample ID: LCSD 860-58335/6
Matrix: Water
Analysis Batch: 58335

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
Methane			0.0199	0.01758		mg/L		88	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Trifluoroethane	*93*		*70 - 130*

Lab Sample ID: MB 860-58616/4
Matrix: Water
Analysis Batch: 58616

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			06/27/22 10:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*92*		*70 - 130*		*06/27/22 10:28*	*1*

Lab Sample ID: LCS 860-58616/5
Matrix: Water
Analysis Batch: 58616

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			0.0199	0.01805		mg/L		91	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Trifluoroethane	*93*		*70 - 130*

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-2449-1

Method: RSK-175 - Dissolved Gases (GC) (Continued)

Lab Sample ID: LCSD 860-58616/6
Matrix: Water
Analysis Batch: 58616

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
Methane			0.0199	0.01804		mg/L		91	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Trifluoroethane	*94*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-58122/3
Matrix: Water
Analysis Batch: 58122

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109	mg/L			06/23/22 11:38	1

Lab Sample ID: LCS 860-58122/6
Matrix: Water
Analysis Batch: 58122

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	9.608		mg/L		96	90 - 110		

Lab Sample ID: LCSD 860-58122/7
Matrix: Water
Analysis Batch: 58122

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
Sulfate			10.0	9.583		mg/L		96	90 - 110	0	20

Lab Sample ID: LLCS 860-58122/5
Matrix: Water
Analysis Batch: 58122

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			0.500	0.4805	J	mg/L		96	50 - 150		

Lab Sample ID: 890-2449-1 MS
Matrix: Water
Analysis Batch: 58122

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	43.0		10.0	52.19	4	mg/L		92	90 - 110		

Lab Sample ID: 890-2449-1 MSD
Matrix: Water
Analysis Batch: 58122

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	43.0		10.0	52.23	4	mg/L		93	90 - 110	0	20

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-2449-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 860-58123/3
Matrix: Water
Analysis Batch: 58123

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			06/23/22 11:38	1

Lab Sample ID: LCS 860-58123/6
Matrix: Water
Analysis Batch: 58123

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.750		mg/L		97	80 - 120

Lab Sample ID: LCSD 860-58123/7
Matrix: Water
Analysis Batch: 58123

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
Nitrate as N	10.0	9.790		mg/L		98	80 - 120	0	20

Lab Sample ID: LLCS 860-58123/4
Matrix: Water
Analysis Batch: 58123

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1153		mg/L		115	50 - 150

Lab Sample ID: 890-2449-1 MS
Matrix: Water
Analysis Batch: 58123

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.210		10.0	9.927		mg/L		97	80 - 120

Lab Sample ID: 890-2449-1 MSD
Matrix: Water
Analysis Batch: 58123

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.210		10.0	9.962		mg/L		98	80 - 120	0	15

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-59053/1-A
Matrix: Water
Analysis Batch: 59293

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 59053

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0004170	J	0.00200	0.000199	mg/L		06/29/22 09:30	06/30/22 00:00	1

QC Sample Results

Client: Talon/LPE
Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-59053/2-A
Matrix: Water
Analysis Batch: 59293

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 59053

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.1002		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-59053/3-A
Matrix: Water
Analysis Batch: 59293

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 59053

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.100	0.09895		mg/L		99	80 - 120	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-58749/3
Matrix: Water
Analysis Batch: 58749

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			06/27/22 11:58	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/27/22 11:58	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/27/22 11:58	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			06/27/22 11:58	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			06/27/22 11:58	1

Lab Sample ID: LCS 860-58749/4
Matrix: Water
Analysis Batch: 58749

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	250.0		mg/L		100	85 - 115

Lab Sample ID: LCSD 860-58749/5
Matrix: Water
Analysis Batch: 58749

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
Alkalinity	250	255.4		mg/L		102	85 - 115	2	20

Lab Sample ID: MB 860-58958/3
Matrix: Water
Analysis Batch: 58958

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			06/28/22 10:53	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/28/22 10:53	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			06/28/22 10:53	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			06/28/22 10:53	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			06/28/22 10:53	1

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-2449-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 860-58958/4
Matrix: Water
Analysis Batch: 58958

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	259.6		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-58958/5
Matrix: Water
Analysis Batch: 58958

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
Alkalinity	250	261.9		mg/L		105	85 - 115	1	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 860-59011/18
Matrix: Water
Analysis Batch: 59011

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			06/28/22 20:52	1

Lab Sample ID: MB 860-59011/34
Matrix: Water
Analysis Batch: 59011

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			06/28/22 20:52	1

Lab Sample ID: LCS 860-59011/19
Matrix: Water
Analysis Batch: 59011

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	1.00	0.9600		mg/L		96	75 - 125

Lab Sample ID: LCS 860-59011/35
Matrix: Water
Analysis Batch: 59011

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	1.00	0.9600		mg/L		96	75 - 125

Lab Sample ID: LCSD 860-59011/20
Matrix: Water
Analysis Batch: 59011

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
Ferrous Iron	1.00	0.9700		mg/L		97	75 - 125	1	25

QC Sample Results

Client: Talon/LPE
Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: LCSD 860-59011/36
Client Sample ID: Lab Control Sample Dup
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 59011

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron			1.00	0.9700		mg/L		97	75 - 125	1	25

Lab Sample ID: 890-2449-3 DU
Client Sample ID: MW-24
Matrix: Water
Prep Type: Total/NA
Analysis Batch: 59011

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	0.0600	HF		0.06000		mg/L				0	25

QC Association Summary

Client: Talon/LPE
Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

GC VOA

Analysis Batch: 58335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2449-1	MW-21	Total/NA	Water	RSK-175	
890-2449-2	MW-19	Total/NA	Water	RSK-175	
890-2449-3	MW-24	Total/NA	Water	RSK-175	
890-2449-4	MW-23	Total/NA	Water	RSK-175	
MB 860-58335/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-58335/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-58335/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

Analysis Batch: 58616

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2449-1	MW-21	Total/NA	Water	RSK-175	
MB 860-58616/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-58616/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-58616/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 58122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2449-1	MW-21	Total/NA	Water	300.0	
890-2449-2	MW-19	Total/NA	Water	300.0	
890-2449-3	MW-24	Total/NA	Water	300.0	
890-2449-4	MW-23	Total/NA	Water	300.0	
MB 860-58122/3	Method Blank	Total/NA	Water	300.0	
LCS 860-58122/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-58122/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-58122/5	Lab Control Sample	Total/NA	Water	300.0	
890-2449-1 MS	MW-21	Total/NA	Water	300.0	
890-2449-1 MSD	MW-21	Total/NA	Water	300.0	

Analysis Batch: 58123

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2449-1	MW-21	Total/NA	Water	300.0	
890-2449-2	MW-19	Total/NA	Water	300.0	
890-2449-3	MW-24	Total/NA	Water	300.0	
890-2449-4	MW-23	Total/NA	Water	300.0	
MB 860-58123/3	Method Blank	Total/NA	Water	300.0	
LCS 860-58123/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-58123/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-58123/4	Lab Control Sample	Total/NA	Water	300.0	
890-2449-1 MS	MW-21	Total/NA	Water	300.0	
890-2449-1 MSD	MW-21	Total/NA	Water	300.0	

Metals

Prep Batch: 59053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2449-1	MW-21	Total/NA	Water	3010A	
890-2449-2	MW-19	Total/NA	Water	3010A	
890-2449-3	MW-24	Total/NA	Water	3010A	
890-2449-4	MW-23	Total/NA	Water	3010A	
MB 860-59053/1-A	Method Blank	Total/NA	Water	3010A	

QC Association Summary

Client: Talon/LPE
Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Metals (Continued)

Prep Batch: 59053 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-59053/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-59053/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 59293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2449-1	MW-21	Total/NA	Water	6020A	59053
890-2449-2	MW-19	Total/NA	Water	6020A	59053
890-2449-3	MW-24	Total/NA	Water	6020A	59053
890-2449-4	MW-23	Total/NA	Water	6020A	59053
MB 860-59053/1-A	Method Blank	Total/NA	Water	6020A	59053
LCS 860-59053/2-A	Lab Control Sample	Total/NA	Water	6020A	59053
LCSD 860-59053/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	59053

General Chemistry

Analysis Batch: 58749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2449-1	MW-21	Total/NA	Water	SM 2320B	
890-2449-2	MW-19	Total/NA	Water	SM 2320B	
MB 860-58749/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-58749/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-58749/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 58958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2449-3	MW-24	Total/NA	Water	SM 2320B	
890-2449-4	MW-23	Total/NA	Water	SM 2320B	
MB 860-58958/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-58958/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-58958/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Analysis Batch: 59011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2449-1	MW-21	Total/NA	Water	SM 3500 FE D	
890-2449-2	MW-19	Total/NA	Water	SM 3500 FE D	
890-2449-3	MW-24	Total/NA	Water	SM 3500 FE D	
890-2449-4	MW-23	Total/NA	Water	SM 3500 FE D	
MB 860-59011/18	Method Blank	Total/NA	Water	SM 3500 FE D	
MB 860-59011/34	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-59011/19	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCS 860-59011/35	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 860-59011/20	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	
LCSD 860-59011/36	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	
890-2449-3 DU	MW-24	Total/NA	Water	SM 3500 FE D	

Lab Chronicle

Client: Talon/LPE
Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-21
Lab Sample ID: 890-2449-1
Date Collected: 06/22/22 10:00
Matrix: Water
Date Received: 06/22/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	58335	06/24/22 11:02	CZT	XEN STF
Total/NA	Analysis	RSK-175		20	33 mL	33 mL	58616	06/27/22 12:11	CZT	XEN STF
Total/NA	Analysis	300.0		1			58122	06/23/22 13:29	A1S	XEN STF
Total/NA	Analysis	300.0		1			58123	06/23/22 13:29	A1S	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	59053	06/29/22 09:30	MD	XEN STF
Total/NA	Analysis	6020A		1			59293	06/30/22 00:40	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			58749	06/27/22 13:05	TL	XEN STF
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	59011	06/28/22 20:52	ADL	XEN STF

Client Sample ID: MW-19
Lab Sample ID: 890-2449-2
Date Collected: 06/22/22 08:58
Matrix: Water
Date Received: 06/22/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	58335	06/24/22 11:19	CZT	XEN STF
Total/NA	Analysis	300.0		1			58122	06/23/22 14:31	A1S	XEN STF
Total/NA	Analysis	300.0		1			58123	06/23/22 14:31	A1S	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	59053	06/29/22 09:30	MD	XEN STF
Total/NA	Analysis	6020A		1			59293	06/30/22 00:43	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			58749	06/27/22 13:15	TL	XEN STF
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	59011	06/28/22 20:52	ADL	XEN STF

Client Sample ID: MW-24
Lab Sample ID: 890-2449-3
Date Collected: 06/22/22 07:48
Matrix: Water
Date Received: 06/22/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	58335	06/24/22 11:35	CZT	XEN STF
Total/NA	Analysis	300.0		1			58122	06/23/22 14:44	A1S	XEN STF
Total/NA	Analysis	300.0		1			58123	06/23/22 14:44	A1S	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	59053	06/29/22 09:30	MD	XEN STF
Total/NA	Analysis	6020A		1			59293	06/30/22 00:46	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			58958	06/28/22 11:45	TL	XEN STF
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	59011	06/28/22 20:52	ADL	XEN STF

Client Sample ID: MW-23
Lab Sample ID: 890-2449-4
Date Collected: 06/22/22 06:48
Matrix: Water
Date Received: 06/22/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	58335	06/24/22 11:52	CZT	XEN STF
Total/NA	Analysis	300.0		1			58122	06/23/22 14:56	A1S	XEN STF
Total/NA	Analysis	300.0		1			58123	06/23/22 14:56	A1S	XEN STF

Lab Chronicle

Client: Talon/LPE
Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-23
Lab Sample ID: 890-2449-4

Date Collected: 06/22/22 06:48
Matrix: Water

Date Received: 06/22/22 12:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3010A			50 mL	50 mL	59053	06/29/22 09:30	MD	XEN STF
Total/NA	Analysis	6020A		1			59293	06/30/22 00:49	SHZ	XEN STF
Total/NA	Analysis	SM 2320B		1			58958	06/28/22 11:54	TL	XEN STF
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	59011	06/28/22 20:52	ADL	XEN STF

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Talon/LPE Job ID: 890-2449-1
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-46	06-30-22

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
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-2449-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	XEN STF
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
6020A	Metals (ICP/MS)	SW846	XEN STF
SM 2320B	Alkalinity	SM	XEN STF
SM 3500 FE D	Iron, Ferrous and Ferric	SM	XEN STF
3010A	Preparation, Total Metals	SW846	XEN STF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Talon/LPE

Job ID: 890-2449-1

Project/Site: Hobbs Junction Mainline (HJM)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2449-1	MW-21	Water	06/22/22 10:00	06/22/22 12:36	N/A
890-2449-2	MW-19	Water	06/22/22 08:58	06/22/22 12:36	N/A
890-2449-3	MW-24	Water	06/22/22 07:48	06/22/22 12:36	N/A
890-2449-4	MW-23	Water	06/22/22 06:48	06/22/22 12:36	N/A

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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 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline (HJM)	Turn Around	☑ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	D. Winchell		
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	Therm-007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.8
Total Containers:		Corrected Temperature:	1.6

ANALYSIS REQUEST

Pres. Code

Parameters: MNA Parameters

890-2449 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_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	MNA Parameters
MW-21	GW	6/22/22	10:00	N/A		5	X
MW-19	"	"	8:58	"		"	"
MW-24	"	"	7:48	"		"	"
MW-23	"	"	6:48	"		"	"

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 Matthew Gomez	Ace Cruz	6.22.22 1230	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020 2

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-811 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 890-2449-1
Address: 4145 Greenbriar Dr	Due Date Requested: 6/28/2022			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: HOBBS JUNCTION MAINLINE HJM	Project #: 89000047			
Site:	SSOW#:			

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify)
Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ Sulfate	300_ORGFMS/ (MOD) Nitrate	3500_FE_D/ Ferrous Iron	2320B/ Alkalinity	6020A/3010A (MOD) Manganese	RSK_175/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-21 (890-2449-1)	6/22/22	10:00 Mountain		Water			X	X	X	X	X	X	5	
MW-19 (890-2449-2)	6/22/22	08:58 Mountain		Water			X	X	X	X	X	X	5	
MW-24 (890-2449-3)	6/22/22	07:48 Mountain		Water			X	X	X	X	X	X	5	
MW-23 (890-2449-4)	6/22/22	06:48 Mountain		Water			X	X	X	X	X	X	5	

Temp: 1.8 IR ID:HOU-332
C/F: -0.2
Corrected Temp: 1.6

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central, LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Amanda Stafford			EC		
2	EC				6/23/22 1050	FK
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-2449-1

Login Number: 2449 **List Source: Eurofins Carlsbad**
List Number: 1
Creator: Clifton, Cloe

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: 890-2449-1

Login Number: 2449 **List Source: Eurofins Houston**
List Number: 2 **List Creation: 06/23/22 11:33 AM**
Creator: Milone, Jeancarlo

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?	N/A	
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	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2450-1
Client Project/Site: Hobbs Junction Mainline (HJM)

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKramer

Authorized for release by:
6/29/2022 9:00:02 PM

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

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory Job ID: 890-2450-1

Table of Contents

Definitions/Glossary

Client: Talon/LPE Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F2	MS/MSD 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, 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: Hobbs Junction Mainline (HJM)

Job ID: 890-2450-1

Job ID: 890-2450-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2450-1

Receipt
The samples were received on 6/22/2022 12:36 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 1.6°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for analytical batch 880-28607 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: MW-33 (890-2450-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-28607 recovered outside control limits for the following analytes: Benzene, Toluene and o-Xylene.

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
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-21
Lab Sample ID: 890-2450-1
Date Collected: 06/22/22 10:00
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.119**	***1 F2**	0.00200	0.000408	mg/L			06/29/22 12:03	1
Toluene	<0.000367	U *1 F2	0.00200	0.000367	mg/L			06/29/22 12:03	1
Ethylbenzene	**0.121**	**F2**	0.00200	0.000657	mg/L			06/29/22 12:03	1
m-Xylene & p-Xylene	**0.00544**	**F2**	0.00400	0.000629	mg/L			06/29/22 12:03	1
o-Xylene	<0.000642	U *1 F2	0.00200	0.000642	mg/L			06/29/22 12:03	1
Xylenes, Total	**0.00544**	**F2**	0.00400	0.000642	mg/L			06/29/22 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*		*06/29/22 12:03*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*06/29/22 12:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.245**		0.00400	0.000657	mg/L			06/29/22 12:29	1

Client Sample ID: MW-19
Lab Sample ID: 890-2450-2
Date Collected: 06/22/22 08:58
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0266**	***1**	0.00200	0.000408	mg/L			06/29/22 12:29	1
Toluene	**0.00962**	***1**	0.00200	0.000367	mg/L			06/29/22 12:29	1
Ethylbenzene	**0.298**		0.00200	0.000657	mg/L			06/29/22 12:29	1
m-Xylene & p-Xylene	**0.122**		0.00400	0.000629	mg/L			06/29/22 12:29	1
o-Xylene	**0.0379**	***1**	0.00200	0.000642	mg/L			06/29/22 12:29	1
Xylenes, Total	**0.160**		0.00400	0.000642	mg/L			06/29/22 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*		*06/29/22 12:29*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*		*06/29/22 12:29*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.494**		0.00400	0.000657	mg/L			06/29/22 12:29	1

Client Sample ID: MW-24
Lab Sample ID: 890-2450-3
Date Collected: 06/22/22 07:48
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 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			06/29/22 12:56	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			06/29/22 12:56	1
Ethylbenzene	**0.00241**		0.00200	0.000657	mg/L			06/29/22 12:56	1
m-Xylene & p-Xylene	**0.00107**	**J**	0.00400	0.000629	mg/L			06/29/22 12:56	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			06/29/22 12:56	1
Xylenes, Total	**0.00107**	**J**	0.00400	0.000642	mg/L			06/29/22 12:56	1

Client Sample Results

Client: Talon/LPE
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-24
Lab Sample ID: 890-2450-3
Date Collected: 06/22/22 07:48
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130		06/29/22 12:56	1
1,4-Difluorobenzene (Surr)	87		70 - 130		06/29/22 12:56	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00348	J	0.00400	0.000657	mg/L			06/29/22 12:29	1

Client Sample ID: MW-23
Lab Sample ID: 890-2450-4
Date Collected: 06/22/22 06:48
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 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			06/29/22 13:22	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			06/29/22 13:22	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/29/22 13:22	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/29/22 13:22	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			06/29/22 13:22	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/29/22 13:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130		06/29/22 13:22	1
1,4-Difluorobenzene (Surr)	87		70 - 130		06/29/22 13:22	1

Method: 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			06/29/22 12:29	1

Client Sample ID: MW-28
Lab Sample ID: 890-2450-5
Date Collected: 06/21/22 12:38
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 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			06/29/22 13:48	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			06/29/22 13:48	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/29/22 13:48	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/29/22 13:48	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			06/29/22 13:48	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/29/22 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130		06/29/22 13:48	1
1,4-Difluorobenzene (Surr)	94		70 - 130		06/29/22 13:48	1

Method: 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			06/29/22 12:29	1

Client Sample Results

Client: Talon/LPE
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-33
Lab Sample ID: 890-2450-6
Date Collected: 06/21/22 12:04
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 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			06/29/22 14:14	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			06/29/22 14:14	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/29/22 14:14	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/29/22 14:14	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			06/29/22 14:14	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/29/22 14:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*		*06/29/22 14:14*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*06/29/22 14:14*	*1*

Method: 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			06/29/22 12:29	1

Client Sample ID: MW-7
Lab Sample ID: 890-2450-7
Date Collected: 06/21/22 12:55
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 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			06/29/22 14:40	1
Toluene	<0.000367	U *1	0.00200	0.000367	mg/L			06/29/22 14:40	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/29/22 14:40	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/29/22 14:40	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			06/29/22 14:40	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/29/22 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*		*06/29/22 14:40*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*		*06/29/22 14:40*	*1*

Method: 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			06/29/22 12:29	1

Client Sample ID: MW-32
Lab Sample ID: 890-2450-8
Date Collected: 06/22/22 09:30
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 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			06/28/22 15:13	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/28/22 15:13	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/28/22 15:13	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/28/22 15:13	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/28/22 15:13	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/28/22 15:13	1

Client Sample Results

Client: Talon/LPE
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-32
Lab Sample ID: 890-2450-8
Date Collected: 06/22/22 09:30
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130		06/28/22 15:13	1
1,4-Difluorobenzene (Surr)	91		70 - 130		06/28/22 15:13	1

Method: 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			06/29/22 12:29	1

Client Sample ID: MW-22
Lab Sample ID: 890-2450-9
Date Collected: 06/22/22 09:10
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 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			06/28/22 15:39	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/28/22 15:39	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/28/22 15:39	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/28/22 15:39	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/28/22 15:39	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/28/22 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130		06/28/22 15:39	1
1,4-Difluorobenzene (Surr)	94		70 - 130		06/28/22 15:39	1

Method: 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			06/29/22 12:29	1

Client Sample ID: MW-31
Lab Sample ID: 890-2450-10
Date Collected: 06/22/22 08:45
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 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			06/28/22 16:05	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/28/22 16:05	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/28/22 16:05	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/28/22 16:05	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/28/22 16:05	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/28/22 16:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130		06/28/22 16:05	1
1,4-Difluorobenzene (Surr)	90		70 - 130		06/28/22 16:05	1

Method: 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			06/29/22 12:29	1

Client Sample Results

Client: Talon/LPE
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-18
Lab Sample ID: 890-2450-11
Date Collected: 06/21/22 01:10
Matrix: Water
Date Received: 06/22/22 12:36
Sample Depth: N/A

Method: 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			06/28/22 16:31	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/28/22 16:31	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/28/22 16:31	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/28/22 16:31	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/28/22 16:31	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/28/22 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*06/28/22 16:31*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*		*06/28/22 16:31*	*1*

Method: 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			06/29/22 12:29	1

Surrogate Summary

Client: Talon/LPE
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

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)										
890-2450-1	MW-21	130	93										
890-2450-1 MS	MW-21	123	105										
890-2450-1 MSD	MW-21	127	111										
890-2450-2	MW-19	125	91										
890-2450-3	MW-24	123	87										
890-2450-4	MW-23	125	87										
890-2450-5	MW-28	127	94										
890-2450-6	MW-33	131 S1+	99										
890-2450-7	MW-7	121	96										
890-2450-8	MW-32	110	91										
890-2450-9	MW-22	121	94										
890-2450-10	MW-31	116	90										
890-2450-11	MW-18	117	94										
LCS 880-28498/3	Lab Control Sample	114	104										
LCS 880-28607/3	Lab Control Sample	111	99										
LCSD 880-28498/4	Lab Control Sample Dup	106	88										
LCSD 880-28607/4	Lab Control Sample Dup	124	114										
MB 880-28498/8	Method Blank	87	81										
MB 880-28607/8	Method Blank	95	80										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Talon/LPE
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28498/8
Matrix: Water
Analysis Batch: 28498

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0000816	U	0.000400	0.0000816	mg/L			06/28/22 13:27	1
Toluene	<0.0000734	U	0.000400	0.0000734	mg/L			06/28/22 13:27	1
Ethylbenzene	<0.000131	U	0.000400	0.000131	mg/L			06/28/22 13:27	1
m-Xylene & p-Xylene	<0.000126	U	0.000800	0.000126	mg/L			06/28/22 13:27	1
o-Xylene	<0.000128	U	0.000400	0.000128	mg/L			06/28/22 13:27	1
Xylenes, Total	<0.000128	U	0.000800	0.000128	mg/L			06/28/22 13:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*70 - 130*		*06/28/22 13:27*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*		*06/28/22 13:27*	*1*

Lab Sample ID: LCS 880-28498/3
Matrix: Water
Analysis Batch: 28498

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	0.1139		mg/L		114	70 - 130		
Toluene			0.100	0.1105		mg/L		111	70 - 130		
Ethylbenzene			0.100	0.1042		mg/L		104	70 - 130		
m-Xylene & p-Xylene			0.200	0.2110		mg/L		106	70 - 130		
o-Xylene			0.100	0.1110		mg/L		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-28498/4
Matrix: Water
Analysis Batch: 28498

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	0.09480		mg/L		95	70 - 130	18	20
Toluene			0.100	0.09722		mg/L		97	70 - 130	13	20
Ethylbenzene			0.100	0.09443		mg/L		94	70 - 130	10	20
m-Xylene & p-Xylene			0.200	0.1902		mg/L		95	70 - 130	10	20
o-Xylene			0.100	0.1005		mg/L		100	70 - 130	10	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: MB 880-28607/8
Matrix: Water
Analysis Batch: 28607

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			06/29/22 11:37	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 11:37	1

QC Sample Results

Client: Talon/LPE
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

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

Lab Sample ID: MB 880-28607/8
Matrix: Water
Analysis Batch: 28607

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/29/22 11:37	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/29/22 11:37	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/29/22 11:37	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/29/22 11:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*06/29/22 11:37*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*		*06/29/22 11:37*	*1*

Lab Sample ID: LCS 880-28607/3
Matrix: Water
Analysis Batch: 28607

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.0200	0.01809		mg/L		90	70 - 130		
Toluene			0.0200	0.01735		mg/L		87	70 - 130		
Ethylbenzene			0.0200	0.01649		mg/L		82	70 - 130		
m-Xylene & p-Xylene			0.0400	0.03290		mg/L		82	70 - 130		
o-Xylene			0.0200	0.01776		mg/L		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 880-28607/4
Matrix: Water
Analysis Batch: 28607

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			0.0200	0.02285	*1	mg/L		114	70 - 130	23	20
Toluene			0.0200	0.02144	*1	mg/L		107	70 - 130	21	20
Ethylbenzene			0.0200	0.02021		mg/L		101	70 - 130	20	20
m-Xylene & p-Xylene			0.0400	0.04031		mg/L		101	70 - 130	20	20
o-Xylene			0.0200	0.02192	*1	mg/L		110	70 - 130	21	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*

Lab Sample ID: 890-2450-1 MS
Matrix: Water
Analysis Batch: 28607

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	0.119	*1 F2	0.0200	0.03465	4	mg/L		-420	70 - 130		
Toluene	<0.000367	U *1 F2	0.0200	0.01957		mg/L		98	70 - 130		
Ethylbenzene	0.121	F2	0.0200	0.03847	4	mg/L		-410	70 - 130		
m-Xylene & p-Xylene	0.00544	F2	0.0400	0.03906		mg/L		84	70 - 130		

QC Sample Results

Client: Talon/LPE
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

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

Lab Sample ID: 890-2450-1 MS
Matrix: Water
Analysis Batch: 28607

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
o-Xylene	<0.000642	U *1 F2	0.0200	0.02100		mg/L		105	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 890-2450-1 MSD
Matrix: Water
Analysis Batch: 28607

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.119	*1 F2	0.100	0.2045	F2	mg/L		86	70 - 130	142	25
Toluene	<0.000367	U *1 F2	0.100	0.1107	F2	mg/L		111	70 - 130	140	25
Ethylbenzene	0.121	F2	0.100	0.2027	F2	mg/L		82	70 - 130	136	25
m-Xylene & p-Xylene	0.00544	F2	0.200	0.1979	F2	mg/L		96	70 - 130	134	25
o-Xylene	<0.000642	U *1 F2	0.100	0.1126	F2	mg/L		113	70 - 130	137	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

QC Association Summary

Client: Talon/LPE Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

GC VOA

Analysis Batch: 28498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2450-8	MW-32	Total/NA	Water	8021B	
890-2450-9	MW-22	Total/NA	Water	8021B	
890-2450-10	MW-31	Total/NA	Water	8021B	
890-2450-11	MW-18	Total/NA	Water	8021B	
MB 880-28498/8	Method Blank	Total/NA	Water	8021B	
LCS 880-28498/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-28498/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 28607

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2450-1	MW-21	Total/NA	Water	8021B	
890-2450-2	MW-19	Total/NA	Water	8021B	
890-2450-3	MW-24	Total/NA	Water	8021B	
890-2450-4	MW-23	Total/NA	Water	8021B	
890-2450-5	MW-28	Total/NA	Water	8021B	
890-2450-6	MW-33	Total/NA	Water	8021B	
890-2450-7	MW-7	Total/NA	Water	8021B	
MB 880-28607/8	Method Blank	Total/NA	Water	8021B	
LCS 880-28607/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-28607/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-2450-1 MS	MW-21	Total/NA	Water	8021B	
890-2450-1 MSD	MW-21	Total/NA	Water	8021B	

Analysis Batch: 28661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2450-1	MW-21	Total/NA	Water	Total BTEX	
890-2450-2	MW-19	Total/NA	Water	Total BTEX	
890-2450-3	MW-24	Total/NA	Water	Total BTEX	
890-2450-4	MW-23	Total/NA	Water	Total BTEX	
890-2450-5	MW-28	Total/NA	Water	Total BTEX	
890-2450-6	MW-33	Total/NA	Water	Total BTEX	
890-2450-7	MW-7	Total/NA	Water	Total BTEX	
890-2450-8	MW-32	Total/NA	Water	Total BTEX	
890-2450-9	MW-22	Total/NA	Water	Total BTEX	
890-2450-10	MW-31	Total/NA	Water	Total BTEX	
890-2450-11	MW-18	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Talon/LPE
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-21
Lab Sample ID: 890-2450-1
Date Collected: 06/22/22 10:00
Matrix: Water
Date Received: 06/22/22 12:36

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			28607	06/29/22 12:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28661	06/29/22 12:29	AJ	XEN MID

Client Sample ID: MW-19
Lab Sample ID: 890-2450-2
Date Collected: 06/22/22 08:58
Matrix: Water
Date Received: 06/22/22 12:36

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			28607	06/29/22 12:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28661	06/29/22 12:29	AJ	XEN MID

Client Sample ID: MW-24
Lab Sample ID: 890-2450-3
Date Collected: 06/22/22 07:48
Matrix: Water
Date Received: 06/22/22 12:36

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			28607	06/29/22 12:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28661	06/29/22 12:29	AJ	XEN MID

Client Sample ID: MW-23
Lab Sample ID: 890-2450-4
Date Collected: 06/22/22 06:48
Matrix: Water
Date Received: 06/22/22 12:36

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			28607	06/29/22 13:22	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28661	06/29/22 12:29	AJ	XEN MID

Client Sample ID: MW-28
Lab Sample ID: 890-2450-5
Date Collected: 06/21/22 12:38
Matrix: Water
Date Received: 06/22/22 12:36

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			28607	06/29/22 13:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28661	06/29/22 12:29	AJ	XEN MID

Client Sample ID: MW-33
Lab Sample ID: 890-2450-6
Date Collected: 06/21/22 12:04
Matrix: Water
Date Received: 06/22/22 12:36

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			28607	06/29/22 14:14	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28661	06/29/22 12:29	AJ	XEN MID

Lab Chronicle

Client: Talon/LPE
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-7
Lab Sample ID: 890-2450-7
Date Collected: 06/21/22 12:55
Matrix: Water
Date Received: 06/22/22 12:36

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			28607	06/29/22 14:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28661	06/29/22 12:29	AJ	XEN MID

Client Sample ID: MW-32
Lab Sample ID: 890-2450-8
Date Collected: 06/22/22 09:30
Matrix: Water
Date Received: 06/22/22 12:36

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			28498	06/28/22 15:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28661	06/29/22 12:29	AJ	XEN MID

Client Sample ID: MW-22
Lab Sample ID: 890-2450-9
Date Collected: 06/22/22 09:10
Matrix: Water
Date Received: 06/22/22 12:36

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			28498	06/28/22 15:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28661	06/29/22 12:29	AJ	XEN MID

Client Sample ID: MW-31
Lab Sample ID: 890-2450-10
Date Collected: 06/22/22 08:45
Matrix: Water
Date Received: 06/22/22 12:36

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			28498	06/28/22 16:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28661	06/29/22 12:29	AJ	XEN MID

Client Sample ID: MW-18
Lab Sample ID: 890-2450-11
Date Collected: 06/21/22 01:10
Matrix: Water
Date Received: 06/22/22 12:36

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			28498	06/28/22 16:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28661	06/29/22 12:29	AJ	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

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	T104704400-21-22	06-30-22

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

Job ID: 890-2450-1

Project/Site: Hobbs Junction Mainline (HJM)

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

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

Sample Summary

Client: Talon/LPE
Job ID: 890-2450-1
Project/Site: Hobbs Junction Mainline (HJM)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2450-1	MW-21	Water	06/22/22 10:00	06/22/22 12:36	N/A
890-2450-2	MW-19	Water	06/22/22 08:58	06/22/22 12:36	N/A
890-2450-3	MW-24	Water	06/22/22 07:48	06/22/22 12:36	N/A
890-2450-4	MW-23	Water	06/22/22 06:48	06/22/22 12:36	N/A
890-2450-5	MW-28	Water	06/21/22 12:38	06/22/22 12:36	N/A
890-2450-6	MW-33	Water	06/21/22 12:04	06/22/22 12:36	N/A
890-2450-7	MW-7	Water	06/21/22 12:55	06/22/22 12:36	N/A
890-2450-8	MW-32	Water	06/22/22 09:30	06/22/22 12:36	N/A
890-2450-9	MW-22	Water	06/22/22 09:10	06/22/22 12:36	N/A
890-2450-10	MW-31	Water	06/22/22 08:45	06/22/22 12:36	N/A
890-2450-11	MW-18	Water	06/21/22 01:10	06/22/22 12:36	N/A

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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 2

Project Manager:	David Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	Attn: Camille Bryant
Address:	408 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline (HJM)	Turn Around	☑ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	J. Flores		
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.8
Total Containers:		Corrected Temperature:	1.6

ANALYSIS REQUEST

Pres. Code

Parameters: BTEX 8021 B

890-2450 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_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 8021 B
MW-21	GW	6/22/22	10:00	N/A		3	X
MW-19	"	"	8:58	"		"	"
MW-24	"	"	7:48	"		"	"
MW-23	"	"	6:48	"		"	"
MW-28	"	6/21/22	12:38	"		"	"
MW-33	"	"	12:04	"		"	"
MW-7	"	"	12:55	"		"	"
MW-32	"	6/22/22	9:30	"		"	"
MW-22	"	"	9:10	"		"	"
MW-31	"	"	8:45	"		"	"

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

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 Matthew Gomez	[signature]	6/22/22 1236			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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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 2 of 2

Project Manager:	David Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	Attn: Camille Bryant
Address:	408 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline (HJM)	Turn Around	
Project Number:		☑ Routine	☐ Rush
Project Location:	Lea County	Due Date:	
Sampler's Name:	J. Flores	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT

Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	
Total Containers:		Corrected Temperature:	

ANALYSIS REQUEST — Pres. Code / Parameters: BTEX 8021 B

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	BTEX 8021 B
MW-18	GW	6/21/22	1:10	N/A		3	X

Preservative Codes

None: NO — DI Water: H_2O
Cool: Cool — MeOH: Me
HCL: HC — HNO_3: HN
H_2SO_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 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 Matthew Gomez	[signature]	6/22/22 1236	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-2450-1

Login Number: 2450 **List Source: Eurofins Carlsbad**
List Number: 1
Creator: Clifton, Cloe

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: 890-2450-1

Login Number: 2450 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 06/23/22 11:07 AM**
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-2454-1
Client Project/Site: Hobbs Junction Mainline (HJM)

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKRAMER

Authorized for release by:
6/30/2022 1:09:19 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory Job ID: 890-2454-1

Table of Contents

Definitions/Glossary

Client: Talon/LPE Job ID: 890-2454-1
Project/Site: Hobbs Junction Mainline (HJM)

Qualifiers

GC VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
B	Compound was found in the blank and sample.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD 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.
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
Job ID: 890-2454-1
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-2454-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-2454-1

Receipt
The samples were received on 6/23/2022 12:19 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 4.0°C

GC VOA
Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 880-28608 recovered outside control limits for the following analytes: Ethylbenzene, m-Xylene & p-Xylene, o-Xylene and Xylenes, Total.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for analytical batch 880-28608 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

Method 8021B: The method blank for analytical batch 880-28608 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples 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
Job ID: 890-2454-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-25
Lab Sample ID: 890-2454-1
Date Collected: 06/23/22 09:07
Matrix: Water
Date Received: 06/23/22 12:19
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.268**	**F2 F1 B**	0.00200	0.000408	mg/L			06/29/22 12:43	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 12:43	1
Ethylbenzene	**0.0117**	**F2 F1 *1**	0.00200	0.000657	mg/L			06/29/22 12:43	1
m-Xylene & p-Xylene	**0.00653**	**F2 F1 *1**	0.00400	0.000629	mg/L			06/29/22 12:43	1
o-Xylene	<0.000642	U F2 *1	0.00200	0.000642	mg/L			06/29/22 12:43	1
Xylenes, Total	**0.00653**	**F2 F1 *1**	0.00400	0.000642	mg/L			06/29/22 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*06/29/22 12:43*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*		*06/29/22 12:43*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.286**		0.00400	0.000657	mg/L			06/30/22 09:53	1

Client Sample ID: MW-13
Lab Sample ID: 890-2454-2
Date Collected: 06/23/22 07:25
Matrix: Water
Date Received: 06/23/22 12:19
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00405**	**B**	0.00200	0.000408	mg/L			06/29/22 13:03	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 13:03	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			06/29/22 13:03	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			06/29/22 13:03	1
o-Xylene	<0.000642	U *1	0.00200	0.000642	mg/L			06/29/22 13:03	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			06/29/22 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*		*06/29/22 13:03*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*		*06/29/22 13:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00405**		0.00400	0.000657	mg/L			06/30/22 09:53	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-2454-1

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-2454-1	MW-25	84	116										
890-2454-1 MS	MW-25	79	109										
890-2454-1 MSD	MW-25	100	103										
890-2454-2	MW-13	85	110										
LCS 880-28608/3	Lab Control Sample	80	111										
LCSD 880-28608/4	Lab Control Sample Dup	104	100										
MB 880-28608/8	Method Blank	86	110										

Surrogate Legend

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

QC Sample Results

Client: Talon/LPE
Job ID: 890-2454-1
Project/Site: Hobbs Junction Mainline (HJM)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-28608/8
Matrix: Water
Analysis Batch: 28608

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0006620	J	0.00200	0.000408	mg/L			06/29/22 12:21	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/29/22 12:21	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/29/22 12:21	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/29/22 12:21	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/29/22 12:21	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/29/22 12:21	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*06/29/22 12:21*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*		*06/29/22 12:21*	*1*

Lab Sample ID: LCS 880-28608/3
Matrix: Water
Analysis Batch: 28608

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	0.1117		mg/L		112	70 - 130
Toluene	0.100	0.09153		mg/L		92	70 - 130
Ethylbenzene	0.100	0.07626		mg/L		76	70 - 130
m-Xylene & p-Xylene	0.200	0.1434		mg/L		72	70 - 130
o-Xylene	0.100	0.07624		mg/L		76	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*80*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 880-28608/4
Matrix: Water
Analysis Batch: 28608

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	0.09219		mg/L		92	70 - 130	19	20
Toluene	0.100	0.1023		mg/L		102	70 - 130	11	20
Ethylbenzene	0.100	0.09846	*1	mg/L		98	70 - 130	25	20
m-Xylene & p-Xylene	0.200	0.1988	*1	mg/L		99	70 - 130	32	20
o-Xylene	0.100	0.1051	*1	mg/L		105	70 - 130	32	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-2454-1 MS
Matrix: Water
Analysis Batch: 28608

Client Sample ID: MW-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.268	F2 F1 B	0.100	0.1071	F1	mg/L		-160	70 - 130
Toluene	<0.000367	U	0.100	0.08829		mg/L		88	70 - 130

QC Sample Results

Client: Talon/LPE
Job ID: 890-2454-1
Project/Site: Hobbs Junction Mainline (HJM)

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

Lab Sample ID: 890-2454-1 MS
Matrix: Water
Analysis Batch: 28608

Client Sample ID: MW-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.0117	F2 F1 *1	0.100	0.07380	F1	mg/L		62	70 - 130
m-Xylene & p-Xylene	0.00653	F2 F1 *1	0.200	0.1392	F1	mg/L		66	70 - 130
o-Xylene	<0.000642	U F2 *1	0.100	0.07399		mg/L		74	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-2454-1 MSD
Matrix: Water
Analysis Batch: 28608

Client Sample ID: MW-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.268	F2 F1 B	0.100	0.3135	F2 F1	mg/L		46	70 - 130	98	25
Toluene	<0.000367	U	0.100	0.09812		mg/L		98	70 - 130	11	25
Ethylbenzene	0.0117	F2 F1 *1	0.100	0.1043	F2	mg/L		93	70 - 130	34	25
m-Xylene & p-Xylene	0.00653	F2 F1 *1	0.200	0.1881	F2	mg/L		91	70 - 130	30	25
o-Xylene	<0.000642	U F2 *1	0.100	0.09710	F2	mg/L		97	70 - 130	27	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

QC Association Summary

Client: Talon/LPE
Job ID: 890-2454-1
Project/Site: Hobbs Junction Mainline (HJM)

GC VOA

Analysis Batch: 28608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2454-1	MW-25	Total/NA	Water	8021B	
890-2454-2	MW-13	Total/NA	Water	8021B	
MB 880-28608/8	Method Blank	Total/NA	Water	8021B	
LCS 880-28608/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-28608/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-2454-1 MS	MW-25	Total/NA	Water	8021B	
890-2454-1 MSD	MW-25	Total/NA	Water	8021B	

Analysis Batch: 28735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2454-1	MW-25	Total/NA	Water	Total BTEX	
890-2454-2	MW-13	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Talon/LPE
Job ID: 890-2454-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-25
Lab Sample ID: 890-2454-1
Date Collected: 06/23/22 09:07
Matrix: Water
Date Received: 06/23/22 12:19

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	28608	06/29/22 12:43	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28735	06/30/22 09:53	SM	XEN MID

Client Sample ID: MW-13
Lab Sample ID: 890-2454-2
Date Collected: 06/23/22 07:25
Matrix: Water
Date Received: 06/23/22 12:19

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	28608	06/29/22 13:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			28735	06/30/22 09:53	SM	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE Job ID: 890-2454-1
Project/Site: Hobbs Junction Mainline (HJM)

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	T104704400-21-22	06-30-22

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

Job ID: 890-2454-1

Project/Site: Hobbs Junction Mainline (HJM)

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

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

Sample Summary

Client: Talon/LPE

Job ID: 890-2454-1

Project/Site: Hobbs Junction Mainline (HJM)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2454-1	MW-25	Water	06/23/22 09:07	06/23/22 12:19	N/A
890-2454-2	MW-13	Water	06/23/22 07:25	06/23/22 12:19	N/A

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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 W. Texas Ave.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2003-00017
Phone:	575-441-4835 Email:	dadkins@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:	Hobbs Junction Mainline (HJM)	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	Lea County	Due Date:	
Sampler's Name:	M. Gomez, D. Winchell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TNM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021 B
MW-25	GW	6/23/22	9:07	N/A		3		X
MW-13	1	1	7:25	1		3		1

890-2454 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_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 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 Matthew Gomez	Cruz Chp	6.23.221219	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2454-1
SDG Number:

Login Number: 2454
List Number: 1
Creator: Clifton, Cloe

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: 890-2454-1
SDG Number:

Login Number: 2454
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 06/24/22 10:57 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-3065-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: Hobbs Junction Mainline (HJM)

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKRAMER

Authorized for release by:
10/6/2022 6:39:40 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory Job ID: 890-3065-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Job ID: 890-3065-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3065-1

Receipt
The sample was received on 9/27/2022 12:04 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C

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

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

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

General Chemistry
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: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Client Sample ID: MW-25

Date Collected: 09/27/22 09:15
Date Received: 09/27/22 12:04

Lab Sample ID: 890-3065-1

Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.753**		0.00500	0.000453	mg/L			09/30/22 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*98*		*70 - 130*		*09/30/22 13:07*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.678**		0.100	0.0391	mg/L			09/28/22 16:16	1
Sulfate	**74.9**		0.500	0.109	mg/L			09/28/22 16:16	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.121**		0.00200	0.000224	mg/L		10/03/22 09:30	10/05/22 22:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**259**		4.00	4.00	mg/L			10/05/22 13:41	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**259**		4.00	4.00	mg/L			10/05/22 13:41	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/05/22 13:41	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/05/22 13:41	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/05/22 13:41	1
Ferrous Iron (SM 3500 FE D)	**0.520**	**HF**	0.0500	0.0280	mg/L			10/03/22 13:10	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	fluoroethar (70-130)							
890-3065-1	MW-25	98							
LCS 860-71269/5	Lab Control Sample	103							
LCSD 860-71269/6	Lab Control Sample Dup	103							
MB 860-71269/4	Method Blank	104							

Surrogate Legend

Trifluoroethane = Trifluoroethane

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-71269/4
Matrix: Water
Analysis Batch: 71269

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			09/30/22 09:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*104*		*70 - 130*		*09/30/22 09:48*	*1*

Lab Sample ID: LCS 860-71269/5
Matrix: Water
Analysis Batch: 71269

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			0.0199	0.01828		mg/L		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Trifluoroethane	*103*		*70 - 130*

Lab Sample ID: LCSD 860-71269/6
Matrix: Water
Analysis Batch: 71269

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
Methane			0.0199	0.01818		mg/L		91	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Trifluoroethane	*103*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-70885/3
Matrix: Water
Analysis Batch: 70885

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109	mg/L			09/28/22 09:35	1

Lab Sample ID: LCS 860-70885/6
Matrix: Water
Analysis Batch: 70885

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	9.211		mg/L		92	90 - 110		

Lab Sample ID: LCSD 860-70885/7
Matrix: Water
Analysis Batch: 70885

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
Sulfate			10.0	9.259		mg/L		93	90 - 110	1	20

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-70885/5
Matrix: Water
Analysis Batch: 70885

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	0.500	0.5271		mg/L		105	50 - 150

Lab Sample ID: MB 860-70886/3
Matrix: Water
Analysis Batch: 70886

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			09/28/22 09:35	1

Lab Sample ID: LCS 860-70886/6
Matrix: Water
Analysis Batch: 70886

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.433		mg/L		94	80 - 120

Lab Sample ID: LCSD 860-70886/7
Matrix: Water
Analysis Batch: 70886

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
Nitrate as N	10.0	9.480		mg/L		95	80 - 120	1	20

Lab Sample ID: LLCS 860-70886/4
Matrix: Water
Analysis Batch: 70886

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1169		mg/L		117	50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-71539/1-A
Matrix: Water
Analysis Batch: 72185

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71539

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.000224	U	0.00200	0.000224	mg/L		10/03/22 09:30	10/05/22 21:33	1

Lab Sample ID: LCS 860-71539/2-A
Matrix: Water
Analysis Batch: 72185

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71539

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.1081		mg/L		108	80 - 120

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 860-71539/3-A
Matrix: Water
Analysis Batch: 72185

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71539

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese			0.100	0.1071		mg/L		107	80 - 120	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-72051/4
Matrix: Water
Analysis Batch: 72051

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			10/05/22 11:31	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			10/05/22 11:31	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			10/05/22 11:31	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			10/05/22 11:31	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			10/05/22 11:31	1

Lab Sample ID: LCS 860-72051/5
Matrix: Water
Analysis Batch: 72051

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			250	247.1		mg/L		99	85 - 115		

Lab Sample ID: LCSD 860-72051/6
Matrix: Water
Analysis Batch: 72051

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
Alkalinity			250	247.1		mg/L		99	85 - 115	0	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 860-71633/3
Matrix: Water
Analysis Batch: 71633

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			10/03/22 13:10	1

Lab Sample ID: LCS 860-71633/4
Matrix: Water
Analysis Batch: 71633

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			1.00	0.8800		mg/L		88	75 - 125		

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: LCSD 860-71633/5
Matrix: Water
Analysis Batch: 71633

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
Ferrous Iron			1.00	0.8900		mg/L		89	75 - 125	1	25

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

GC VOA

Analysis Batch: 71269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3065-1	MW-25	Total/NA	Water	RSK-175	
MB 860-71269/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-71269/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-71269/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 70885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3065-1	MW-25	Total/NA	Water	300.0	
MB 860-70885/3	Method Blank	Total/NA	Water	300.0	
LCS 860-70885/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-70885/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-70885/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 70886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3065-1	MW-25	Total/NA	Water	300.0	
MB 860-70886/3	Method Blank	Total/NA	Water	300.0	
LCS 860-70886/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-70886/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-70886/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 71539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3065-1	MW-25	Total/NA	Water	3010A	
MB 860-71539/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-71539/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-71539/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 72185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3065-1	MW-25	Total/NA	Water	6020A	71539
MB 860-71539/1-A	Method Blank	Total/NA	Water	6020A	71539
LCS 860-71539/2-A	Lab Control Sample	Total/NA	Water	6020A	71539
LCSD 860-71539/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	71539

General Chemistry

Analysis Batch: 71633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3065-1	MW-25	Total/NA	Water	SM 3500 FE D	
MB 860-71633/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-71633/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 860-71633/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 72051

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3065-1	MW-25	Total/NA	Water	SM 2320B	
MB 860-72051/4	Method Blank	Total/NA	Water	SM 2320B	

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

General Chemistry (Continued)

Analysis Batch: 72051 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-72051/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-72051/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Client Sample ID: MW-25

Date Collected: 09/27/22 09:15
Date Received: 09/27/22 12:04

Lab Sample ID: 890-3065-1

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	RSK-175		1	33 mL	33 mL	71269	09/30/22 13:07	CZT	EET HOU
Total/NA	Analysis	300.0		1			70885	09/28/22 16:16	A1S	EET HOU
Total/NA	Analysis	300.0		1			70886	09/28/22 16:16	A1S	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71539	10/03/22 09:30	MD	EET HOU
Total/NA	Analysis	6020A		1			72185	10/05/22 22:09	SHZ	EET HOU
Total/NA	Analysis	SM 2320B		1			72051	10/05/22 13:41	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	71633	10/03/22 13:10	SCI	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-47	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
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	EET HOU
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 3500 FE D	Iron, Ferrous and Ferric	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3065-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3065-1	MW-25	Water	09/27/22 09:15	09/27/22 12:04

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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# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline (HJM)	Turn Around	
Project Number:		☑ Routine ☐ Rush	Pres. Code
Project Location:	Lea, County	Due Date:	
Sampler's Name:	M. Gomez, K. Taylor	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TDM 007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.0	
Total Containers:		Corrected Temperature:	1.8	

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	MNA Parameters	Sample Comments
MW-25	GW	9/27/22	9:15	N/A		5	X	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	Matthew Gomez	Amanda Staff	9/27/22 12:04			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3065-1
SDG Number: Lea County

Login Number: 3065
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: 890-3065-1
SDG Number: Lea County

Login Number: 3065
List Number: 2
Creator: Bolch, Taylor

List Source: Eurofins Houston
List Creation: 09/28/22 02:59 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?	N/A	
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	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-3066-1
Client Project/Site: Hobbs Junction Mainline (HJM)

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKramer

Authorized for release by:
10/10/2022 11:22:01 AM

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

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory Job ID: 890-3066-1

Table of Contents

Definitions/Glossary

Client: Talon/LPE Job ID: 890-3066-1
Project/Site: Hobbs Junction Mainline (HJM)

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: Hobbs Junction Mainline (HJM)

Job ID: 890-3066-1

Job ID: 890-3066-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3066-1

Receipt
The samples were received on 9/27/2022 12:04 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 1.8°C

GC VOA
Method 8021B: The method blank for analytical batch 880-36389 contained Benzene, Toluene and m-Xylene & p-Xylene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples 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
Job ID: 890-3066-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-28
Lab Sample ID: 890-3066-1
Date Collected: 09/27/22 08:25
Matrix: Water
Date Received: 09/27/22 12:04

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			10/07/22 22:00	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/07/22 22:00	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/07/22 22:00	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/07/22 22:00	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			10/07/22 22:00	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/07/22 22:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*10/07/22 22:00*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*		*10/07/22 22:00*	*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			10/08/22 09:14	1

Client Sample ID: MW-33
Lab Sample ID: 890-3066-2
Date Collected: 09/27/22 08:34
Matrix: Water
Date Received: 09/27/22 12:04

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			10/07/22 22:21	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/07/22 22:21	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/07/22 22:21	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/07/22 22:21	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			10/07/22 22:21	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/07/22 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*70 - 130*		*10/07/22 22:21*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*		*10/07/22 22:21*	*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			10/08/22 09:14	1

Client Sample ID: MW-25
Lab Sample ID: 890-3066-3
Date Collected: 09/27/22 09:15
Matrix: Water
Date Received: 09/27/22 12:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.392**	**B**	0.00200	0.000408	mg/L			10/07/22 22:41	1
Toluene	**0.000603**	**J B**	0.00200	0.000367	mg/L			10/07/22 22:41	1
Ethylbenzene	**0.00666**		0.00200	0.000657	mg/L			10/07/22 22:41	1
m-Xylene & p-Xylene	**0.00321**	**J B**	0.00400	0.000629	mg/L			10/07/22 22:41	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			10/07/22 22:41	1
Xylenes, Total	**0.00321**	**J B**	0.00400	0.000642	mg/L			10/07/22 22:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*10/07/22 22:41*	*1*
1,4-Difluorobenzene (Surr)	*123*		*70 - 130*		*10/07/22 22:41*	*1*

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Client Sample Results

Client: Talon/LPE
Job ID: 890-3066-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-25
Lab Sample ID: 890-3066-3
Date Collected: 09/27/22 09:15
Matrix: Water
Date Received: 09/27/22 12:04

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.402**		0.00400	0.000657	mg/L			10/08/22 09:14	1

Client Sample ID: MW-7
Lab Sample ID: 890-3066-4
Date Collected: 09/27/22 10:20
Matrix: Water
Date Received: 09/27/22 12:04

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00195**	**J B**	0.00200	0.000408	mg/L			10/07/22 23:02	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/07/22 23:02	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/07/22 23:02	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/07/22 23:02	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			10/07/22 23:02	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/07/22 23:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*10/07/22 23:02*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*		*10/07/22 23:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00195**	**J**	0.00400	0.000657	mg/L			10/08/22 09:14	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3066-1

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)										
890-3066-1	MW-28	109	85										
890-3066-2	MW-33	89	87										
890-3066-3	MW-25	101	123										
890-3066-4	MW-7	95	90										
LCS 880-36389/3	Lab Control Sample	98	97										
LCSD 880-36389/4	Lab Control Sample Dup	119	102										
MB 880-36389/7	Method Blank	84	93										

Surrogate Legend

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

QC Sample Results

Client: Talon/LPE
Job ID: 890-3066-1
Project/Site: Hobbs Junction Mainline (HJM)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-36389/7
Matrix: Water
Analysis Batch: 36389

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0005790	J	0.00200	0.000408	mg/L			10/07/22 16:52	1
Toluene	0.0005435	J	0.00200	0.000367	mg/L			10/07/22 16:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/07/22 16:52	1
m-Xylene & p-Xylene	0.0009537	J	0.00400	0.000629	mg/L			10/07/22 16:52	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			10/07/22 16:52	1
Xylenes, Total	0.0009537	J	0.00400	0.000642	mg/L			10/07/22 16:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*10/07/22 16:52*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*10/07/22 16:52*	*1*

Lab Sample ID: LCS 880-36389/3
Matrix: Water
Analysis Batch: 36389

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	0.1093		mg/L		109	70 - 130		
Toluene			0.100	0.09913		mg/L		99	70 - 130		
Ethylbenzene			0.100	0.09564		mg/L		96	70 - 130		
m-Xylene & p-Xylene			0.200	0.1999		mg/L		100	70 - 130		
o-Xylene			0.100	0.1117		mg/L		112	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-36389/4
Matrix: Water
Analysis Batch: 36389

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	0.1054		mg/L		105	70 - 130	4	20
Toluene			0.100	0.1037		mg/L		104	70 - 130	5	20
Ethylbenzene			0.100	0.1100		mg/L		110	70 - 130	14	20
m-Xylene & p-Xylene			0.200	0.2439		mg/L		122	70 - 130	20	20
o-Xylene			0.100	0.1370	*+	mg/L		137	70 - 130	20	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

QC Association Summary

Client: Talon/LPE Job ID: 890-3066-1
Project/Site: Hobbs Junction Mainline (HJM)

GC VOA

Analysis Batch: 36389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3066-1	MW-28	Total/NA	Water	8021B	
890-3066-2	MW-33	Total/NA	Water	8021B	
890-3066-3	MW-25	Total/NA	Water	8021B	
890-3066-4	MW-7	Total/NA	Water	8021B	
MB 880-36389/7	Method Blank	Total/NA	Water	8021B	
LCS 880-36389/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-36389/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 36436

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3066-1	MW-28	Total/NA	Water	Total BTEX	
890-3066-2	MW-33	Total/NA	Water	Total BTEX	
890-3066-3	MW-25	Total/NA	Water	Total BTEX	
890-3066-4	MW-7	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Talon/LPE
Job ID: 890-3066-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-28
Lab Sample ID: 890-3066-1
Date Collected: 09/27/22 08:25
Matrix: Water
Date Received: 09/27/22 12:04

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	36389	10/07/22 22:00	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36436	10/08/22 09:14	AJ	EET MID

Client Sample ID: MW-33
Lab Sample ID: 890-3066-2
Date Collected: 09/27/22 08:34
Matrix: Water
Date Received: 09/27/22 12:04

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	36389	10/07/22 22:21	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36436	10/08/22 09:14	AJ	EET MID

Client Sample ID: MW-25
Lab Sample ID: 890-3066-3
Date Collected: 09/27/22 09:15
Matrix: Water
Date Received: 09/27/22 12:04

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	36389	10/07/22 22:41	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36436	10/08/22 09:14	AJ	EET MID

Client Sample ID: MW-7
Lab Sample ID: 890-3066-4
Date Collected: 09/27/22 10:20
Matrix: Water
Date Received: 09/27/22 12:04

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	36389	10/07/22 23:02	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36436	10/08/22 09:14	AJ	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 Job ID: 890-3066-1
Project/Site: Hobbs Junction Mainline (HJM)

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	T104704400-22-24	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

Job ID: 890-3066-1

Project/Site: Hobbs Junction Mainline (HJM)

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

Job ID: 890-3066-1

Project/Site: Hobbs Junction Mainline (HJM)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3066-1	MW-28	Water	09/27/22 08:25	09/27/22 12:04
890-3066-2	MW-33	Water	09/27/22 08:34	09/27/22 12:04
890-3066-3	MW-25	Water	09/27/22 09:15	09/27/22 12:04
890-3066-4	MW-7	Water	09/27/22 10:20	09/27/22 12:04

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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# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline (HJM)	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	Lea, County	Due Date:	
Sampler's Name:	M. Gomez, K. Taylor	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT	Temp Blank: (Yes) No	Wet Ice: (Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TDM 007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	2.0
Total Containers:		Corrected Temperature:	1.8

ANALYSIS REQUEST

Pres. Code

Parameters

BTEX 8021B

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_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-28	GW	9/27/22	8:25	N/A		3	X
MW-33	"	"	8:54	"		"	"
MW-25	"	"	9:15	"		"	"
MW-7	"	"	10:20	"		"	"

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 Matthew Gomez	Amanda Stark	9/27/22 1204	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-3066-1

Login Number: 3066 **List Source: Eurofins Carlsbad**
List Number: 1
Creator: Stutzman, Amanda

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: 890-3066-1

Login Number: 3066 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 09/28/22 10:31 AM**
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-3097-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: Hobbs Junction Mainline (HJM)

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKRAMER

Authorized for release by:
10/6/2022 6:47:01 PM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory Job ID: 890-3097-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Job ID: 890-3097-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3097-1

Receipt
The sample was received on 9/28/2022 12:18 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

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

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

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

General Chemistry
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: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Client Sample ID: MW-21

Date Collected: 09/28/22 10:15
Date Received: 09/28/22 12:18

Lab Sample ID: 890-3097-1

Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.627**		0.00500	0.000453	mg/L			09/30/22 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*98*		*70 - 130*		*09/30/22 13:24*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.496**		0.100	0.0391	mg/L			09/29/22 21:59	1
Sulfate	**56.0**		0.500	0.109	mg/L			09/29/22 21:59	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.0691**		0.00200	0.000224	mg/L		10/03/22 09:30	10/05/22 20:11	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**231**		4.00	4.00	mg/L			10/06/22 14:08	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**231**		4.00	4.00	mg/L			10/06/22 14:08	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/06/22 14:08	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/06/22 14:08	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/06/22 14:08	1
Ferrous Iron (SM 3500 FE D)	**0.0900**	**HF**	0.0500	0.0280	mg/L			10/03/22 13:10	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	fluoroethar (70-130)							
890-3097-1	MW-21	98							
LCS 860-71269/5	Lab Control Sample	103							
LCSD 860-71269/6	Lab Control Sample Dup	103							
MB 860-71269/4	Method Blank	104							

Surrogate Legend

Trifluoroethane = Trifluoroethane

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-71269/4
Matrix: Water
Analysis Batch: 71269

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			09/30/22 09:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*104*		*70 - 130*		*09/30/22 09:48*	*1*

Lab Sample ID: LCS 860-71269/5
Matrix: Water
Analysis Batch: 71269

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			0.0199	0.01828		mg/L		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Trifluoroethane	*103*		*70 - 130*

Lab Sample ID: LCSD 860-71269/6
Matrix: Water
Analysis Batch: 71269

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
Methane			0.0199	0.01818		mg/L		91	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Trifluoroethane	*103*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-71148/3
Matrix: Water
Analysis Batch: 71148

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109	mg/L			09/29/22 10:03	1

Lab Sample ID: LCS 860-71148/6
Matrix: Water
Analysis Batch: 71148

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	9.206		mg/L		92	90 - 110		

Lab Sample ID: LCSD 860-71148/7
Matrix: Water
Analysis Batch: 71148

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
Sulfate			10.0	9.229		mg/L		92	90 - 110	0	20

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-71148/5
Matrix: Water
Analysis Batch: 71148

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	0.500	0.5277		mg/L		106	50 - 150

Lab Sample ID: MB 860-71149/3
Matrix: Water
Analysis Batch: 71149

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			09/29/22 10:03	1

Lab Sample ID: LCS 860-71149/6
Matrix: Water
Analysis Batch: 71149

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.636		mg/L		96	80 - 120

Lab Sample ID: LCSD 860-71149/7
Matrix: Water
Analysis Batch: 71149

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
Nitrate as N	10.0	9.663		mg/L		97	80 - 120	0	20

Lab Sample ID: LLCS 860-71149/4
Matrix: Water
Analysis Batch: 71149

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

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1076		mg/L		108	50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-71541/1-A
Matrix: Water
Analysis Batch: 71897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.000224	U	0.00200	0.000224	mg/L		10/03/22 09:30	10/04/22 23:53	1

Lab Sample ID: MB 860-71541/1-A
Matrix: Water
Analysis Batch: 72084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.000224	U	0.00200	0.000224	mg/L		10/03/22 09:30	10/05/22 19:25	1

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Method: 6020A - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-71541/2-A
Matrix: Water
Analysis Batch: 71897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.1019		mg/L		102	80 - 120

Lab Sample ID: LCS 860-71541/2-A
Matrix: Water
Analysis Batch: 72084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.09490		mg/L		95	80 - 120

Lab Sample ID: LCSD 860-71541/3-A
Matrix: Water
Analysis Batch: 71897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71541

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.100	0.1074		mg/L		107	80 - 120	5	20

Lab Sample ID: LCSD 860-71541/3-A
Matrix: Water
Analysis Batch: 72084

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71541

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.100	0.1051		mg/L		105	80 - 120	10	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-72221/4
Matrix: Water
Analysis Batch: 72221

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			10/06/22 11:48	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			10/06/22 11:48	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			10/06/22 11:48	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			10/06/22 11:48	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			10/06/22 11:48	1

Lab Sample ID: LCS 860-72221/5
Matrix: Water
Analysis Batch: 72221

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	247.2		mg/L		99	85 - 115

Lab Sample ID: LCSD 860-72221/6
Matrix: Water
Analysis Batch: 72221

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
Alkalinity	250	248.8		mg/L		100	85 - 115	1	20

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 860-71633/3
Matrix: Water
Analysis Batch: 71633

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			10/03/22 13:10	1

Lab Sample ID: LCS 860-71633/4
Matrix: Water
Analysis Batch: 71633

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			1.00	0.8800		mg/L		88	75 - 125		

Lab Sample ID: LCSD 860-71633/5
Matrix: Water
Analysis Batch: 71633

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
Ferrous Iron			1.00	0.8900		mg/L		89	75 - 125	1	25

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

GC VOA

Analysis Batch: 71269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3097-1	MW-21	Total/NA	Water	RSK-175	
MB 860-71269/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-71269/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-71269/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 71148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3097-1	MW-21	Total/NA	Water	300.0	
MB 860-71148/3	Method Blank	Total/NA	Water	300.0	
LCS 860-71148/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-71148/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-71148/5	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 71149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3097-1	MW-21	Total/NA	Water	300.0	
MB 860-71149/3	Method Blank	Total/NA	Water	300.0	
LCS 860-71149/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-71149/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-71149/4	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 71541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3097-1	MW-21	Total/NA	Water	3010A	
MB 860-71541/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-71541/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-71541/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 71897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-71541/1-A	Method Blank	Total/NA	Water	6020A	71541
LCS 860-71541/2-A	Lab Control Sample	Total/NA	Water	6020A	71541
LCSD 860-71541/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	71541

Analysis Batch: 72084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3097-1	MW-21	Total/NA	Water	6020A	71541
MB 860-71541/1-A	Method Blank	Total/NA	Water	6020A	71541
LCS 860-71541/2-A	Lab Control Sample	Total/NA	Water	6020A	71541
LCSD 860-71541/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	71541

General Chemistry

Analysis Batch: 71633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3097-1	MW-21	Total/NA	Water	SM 3500 FE D	
MB 860-71633/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-71633/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

General Chemistry (Continued)

Analysis Batch: 71633 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 860-71633/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 72221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3097-1	MW-21	Total/NA	Water	SM 2320B	
MB 860-72221/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-72221/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-72221/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Client Sample ID: MW-21

Date Collected: 09/28/22 10:15
Date Received: 09/28/22 12:18

Lab Sample ID: 890-3097-1

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	RSK-175		1	33 mL	33 mL	71269	09/30/22 13:24	CZT	EET HOU
Total/NA	Analysis	300.0		1			71148	09/29/22 21:59	A1S	EET HOU
Total/NA	Analysis	300.0		1			71149	09/29/22 21:59	A1S	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71541	10/03/22 09:30	MD	EET HOU
Total/NA	Analysis	6020A		1			72084	10/05/22 20:11	SHZ	EET HOU
Total/NA	Analysis	SM 2320B		1			72221	10/06/22 14:08	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	71633	10/03/22 13:10	SCI	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-47	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
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	EET HOU
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 3500 FE D	Iron, Ferrous and Ferric	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3097-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3097-1	MW-21	Water	09/28/22 10:15	09/28/22 12:18

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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# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline (HJM)	Turn Around	☑ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:	Lea, County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	M. Gomez, K. Taylor		
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT	Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No		Thermometer ID:	TRW007
Cooler Custody Seals:	Yes No (N/A)		Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)		Temperature Reading:	2.8
Total Containers:			Corrected Temperature:	2.6

ANALYSIS REQUEST — Parameters

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	MNA Parameters
MW-21	GW	9/28/22	10:15	N/A		5		X

[barcode] 890-3097 Chain of Custody

Preservative Codes

None: NO	DI Water: H_2O
Cool: Cool	MeOH: Me
HCL: HC	HNO_3: HN
H_2SO_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 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 Matthew Gomez	[signature]	9-28-22 1215			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3097-1
SDG Number: Lea County

Login Number: 3097
List Number: 1
Creator: Clifton, Cloe

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: 890-3097-1
SDG Number: Lea County

Login Number: 3097
List Number: 2
Creator: Bolch, Taylor

List Source: Eurofins Houston
List Creation: 09/29/22 06:26 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?	N/A	
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	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-3098-1
Client Project/Site: Hobbs Junction Mainline (HJM)

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKramer

Authorized for release by:
10/10/2022 11:23:04 AM

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

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory Job ID: 890-3098-1

Table of Contents

Definitions/Glossary

Client: Talon/LPE Job ID: 890-3098-1
Project/Site: Hobbs Junction Mainline (HJM)

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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: Hobbs Junction Mainline (HJM)

Job ID: 890-3098-1

Job ID: 890-3098-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3098-1

Receipt
The samples were received on 9/28/2022 12:18 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 2.6°C

GC VOA
Method 8021B: The method blank for analytical batch 880-36389 contained Benzene, Toluene and m-Xylene & p-Xylene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples 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
Job ID: 890-3098-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-32
Lab Sample ID: 890-3098-1
Date Collected: 09/28/22 09:30
Matrix: Water
Date Received: 09/28/22 12:18
Sample Depth: n/a

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			10/07/22 23:22	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/07/22 23:22	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/07/22 23:22	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/07/22 23:22	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			10/07/22 23:22	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/07/22 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*10/07/22 23:22*	*1*
1,4-Difluorobenzene (Surr)	*75*		*70 - 130*		*10/07/22 23:22*	*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			10/08/22 09:14	1

Client Sample ID: MW-22
Lab Sample ID: 890-3098-2
Date Collected: 09/28/22 09:45
Matrix: Water
Date Received: 09/28/22 12:18
Sample Depth: n/a

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			10/07/22 23:42	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/07/22 23:42	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/07/22 23:42	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/07/22 23:42	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			10/07/22 23:42	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/07/22 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*10/07/22 23:42*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*		*10/07/22 23:42*	*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			10/08/22 09:14	1

Client Sample ID: MW-21
Lab Sample ID: 890-3098-3
Date Collected: 09/28/22 10:15
Matrix: Water
Date Received: 09/28/22 12:18
Sample Depth: n/a

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			10/08/22 00:03	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/08/22 00:03	1
Ethylbenzene	**0.00102**	**J**	0.00200	0.000657	mg/L			10/08/22 00:03	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/08/22 00:03	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			10/08/22 00:03	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/08/22 00:03	1

Client Sample Results

Client: Talon/LPE
Job ID: 890-3098-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-21
Lab Sample ID: 890-3098-3
Date Collected: 09/28/22 10:15
Matrix: Water
Date Received: 09/28/22 12:18
Sample Depth: n/a

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/08/22 00:03*	*1*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*		*10/08/22 00:03*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00102**	**J**	0.00400	0.000657	mg/L			10/08/22 09:14	1

Client Sample ID: MW31
Lab Sample ID: 890-3098-4
Date Collected: 09/28/22 10:18
Matrix: Water
Date Received: 09/28/22 12:18
Sample Depth: n/a

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			10/08/22 00:23	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/08/22 00:23	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/08/22 00:23	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/08/22 00:23	1
o-Xylene	<0.000642	U *+	0.00200	0.000642	mg/L			10/08/22 00:23	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/08/22 00:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*10/08/22 00:23*	*1*
1,4-Difluorobenzene (Surr)	*78*		*70 - 130*		*10/08/22 00:23*	*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			10/08/22 09:14	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3098-1

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)
890-3098-1	MW-32	105	75
890-3098-2	MW-22	99	83
890-3098-3	MW-21	96	84
890-3098-4	MW31	113	78
LCS 880-36389/3	Lab Control Sample	98	97
LCSD 880-36389/4	Lab Control Sample Dup	119	102
MB 880-36389/7	Method Blank	84	93

Surrogate Legend

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

QC Sample Results

Client: Talon/LPE
Job ID: 890-3098-1
Project/Site: Hobbs Junction Mainline (HJM)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-36389/7
Matrix: Water
Analysis Batch: 36389

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0005790	J	0.00200	0.000408	mg/L			10/07/22 16:52	1
Toluene	0.0005435	J	0.00200	0.000367	mg/L			10/07/22 16:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/07/22 16:52	1
m-Xylene & p-Xylene	0.0009537	J	0.00400	0.000629	mg/L			10/07/22 16:52	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			10/07/22 16:52	1
Xylenes, Total	0.0009537	J	0.00400	0.000642	mg/L			10/07/22 16:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*		*10/07/22 16:52*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*10/07/22 16:52*	*1*

Lab Sample ID: LCS 880-36389/3
Matrix: Water
Analysis Batch: 36389

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	0.1093		mg/L		109	70 - 130
Toluene	0.100	0.09913		mg/L		99	70 - 130
Ethylbenzene	0.100	0.09564		mg/L		96	70 - 130
m-Xylene & p-Xylene	0.200	0.1999		mg/L		100	70 - 130
o-Xylene	0.100	0.1117		mg/L		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 880-36389/4
Matrix: Water
Analysis Batch: 36389

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	0.1054		mg/L		105	70 - 130	4	20
Toluene	0.100	0.1037		mg/L		104	70 - 130	5	20
Ethylbenzene	0.100	0.1100		mg/L		110	70 - 130	14	20
m-Xylene & p-Xylene	0.200	0.2439		mg/L		122	70 - 130	20	20
o-Xylene	0.100	0.1370	*+	mg/L		137	70 - 130	20	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

QC Association Summary

Client: Talon/LPE
Job ID: 890-3098-1
Project/Site: Hobbs Junction Mainline (HJM)

GC VOA

Analysis Batch: 36389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3098-1	MW-32	Total/NA	Water	8021B	
890-3098-2	MW-22	Total/NA	Water	8021B	
890-3098-3	MW-21	Total/NA	Water	8021B	
890-3098-4	MW31	Total/NA	Water	8021B	
MB 880-36389/7	Method Blank	Total/NA	Water	8021B	
LCS 880-36389/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-36389/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 36437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3098-1	MW-32	Total/NA	Water	Total BTEX	
890-3098-2	MW-22	Total/NA	Water	Total BTEX	
890-3098-3	MW-21	Total/NA	Water	Total BTEX	
890-3098-4	MW31	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Talon/LPE
Job ID: 890-3098-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-32
Lab Sample ID: 890-3098-1
Date Collected: 09/28/22 09:30
Matrix: Water
Date Received: 09/28/22 12:18

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	36389	10/07/22 23:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36437	10/08/22 09:14	AJ	EET MID

Client Sample ID: MW-22
Lab Sample ID: 890-3098-2
Date Collected: 09/28/22 09:45
Matrix: Water
Date Received: 09/28/22 12:18

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	36389	10/07/22 23:42	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36437	10/08/22 09:14	AJ	EET MID

Client Sample ID: MW-21
Lab Sample ID: 890-3098-3
Date Collected: 09/28/22 10:15
Matrix: Water
Date Received: 09/28/22 12:18

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	36389	10/08/22 00:03	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36437	10/08/22 09:14	AJ	EET MID

Client Sample ID: MW31
Lab Sample ID: 890-3098-4
Date Collected: 09/28/22 10:18
Matrix: Water
Date Received: 09/28/22 12:18

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	36389	10/08/22 00:23	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36437	10/08/22 09:14	AJ	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 Job ID: 890-3098-1
Project/Site: Hobbs Junction Mainline (HJM)

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	T104704400-22-24	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

Job ID: 890-3098-1

Project/Site: Hobbs Junction Mainline (HJM)

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

Job ID: 890-3098-1

Project/Site: Hobbs Junction Mainline (HJM)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3098-1	MW-32	Water	09/28/22 09:30	09/28/22 12:18	n/a
890-3098-2	MW-22	Water	09/28/22 09:45	09/28/22 12:18	n/a
890-3098-3	MW-21	Water	09/28/22 10:15	09/28/22 12:18	n/a
890-3098-4	MW31	Water	09/28/22 10:18	09/28/22 12:18	n/a

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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# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline (HJM)	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	Lea, County	Due Date:	
Sampler's Name:	M. Gomez, K. Taylor	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	IR#007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	2.8	
Total Containers:		Corrected Temperature:	2.6	

ANALYSIS REQUEST

Pres. Code

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-32	GW	4/28/22	9:30	N/A		3	X
MW-22	"	"	9:45	"		"	"
MW-21	"	"	10:15	"		"	"
MW-31	"	"	10:18	"		"	"

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 Matthew Gomez	[signature]	9.28.22 1218	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-3098-1

Login Number: 3098 **List Source: Eurofins Carlsbad**
List Number: 1
Creator: Clifton, Cloe

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: 890-3098-1

Login Number: 3098 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 09/29/22 11:21 AM**
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-3109-1
Client Project/Site: Hobbs Junction Mainline (HJM)

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKramer

Authorized for release by:
10/10/2022 11:25:13 AM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory Job ID: 890-3109-1

Table of Contents

Definitions/Glossary

Client: Talon/LPE Job ID: 890-3109-1
Project/Site: Hobbs Junction Mainline (HJM)

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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: Hobbs Junction Mainline (HJM)

Job ID: 890-3109-1

Job ID: 890-3109-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3109-1

Receipt
The samples were received on 9/29/2022 12:13 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 3.2°C

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-71339 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

General Chemistry
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
Job ID: 890-3109-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-23
Lab Sample ID: 890-3109-1
Date Collected: 09/29/22 09:15
Matrix: Water
Date Received: 09/29/22 12:13

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			09/30/22 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*101*		*70 - 130*		*09/30/22 15:28*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**1.95**		0.100	0.0391	mg/L			09/30/22 18:47	1
Sulfate	**121**	**F1**	0.500	0.109	mg/L			09/30/22 18:47	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.00507**		0.00200	0.000224	mg/L		10/03/22 09:30	10/05/22 20:17	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**268**		4.00	4.00	mg/L			10/07/22 13:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**268**		4.00	4.00	mg/L			10/07/22 13:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/07/22 13:10	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/07/22 13:10	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/07/22 13:10	1
Ferrous Iron (SM 3500 FE D)	**0.470**	**HF**	0.0500	0.0280	mg/L			10/05/22 16:45	1

Client Sample ID: MW-24
Lab Sample ID: 890-3109-2
Date Collected: 09/29/22 10:18
Matrix: Water
Date Received: 09/29/22 12:13

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			09/30/22 15:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*97*		*70 - 130*		*09/30/22 15:45*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**2.26**		0.100	0.0391	mg/L			09/30/22 19:21	1
Sulfate	**108**		0.500	0.109	mg/L			09/30/22 19:21	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.00509**		0.00200	0.000224	mg/L		10/03/22 09:30	10/05/22 20:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**227**		4.00	4.00	mg/L			10/07/22 13:51	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**227**		4.00	4.00	mg/L			10/07/22 13:51	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/07/22 13:51	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/07/22 13:51	1

Client Sample Results

Client: Talon/LPE
Job ID: 890-3109-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-24
Lab Sample ID: 890-3109-2
Date Collected: 09/29/22 10:18
Matrix: Water
Date Received: 09/29/22 12:13

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			10/07/22 13:51	1
Ferrous Iron (SM 3500 FE D)	**0.280**	**HF**	0.0500	0.0280	mg/L			10/05/22 16:45	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3109-1

Method: RSK-175 - Dissolved Gases (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	luoroetha (70-130)
890-3109-1	MW-23	101
890-3109-2	MW-24	97
LCS 860-71269/5	Lab Control Sample	103
LCSD 860-71269/6	Lab Control Sample Dup	103
MB 860-71269/4	Method Blank	104

Surrogate Legend

Trifluoroethane = Trifluoroethane

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3109-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-71269/4
Matrix: Water
Analysis Batch: 71269

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			09/30/22 09:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*104*		*70 - 130*		*09/30/22 09:48*	*1*

Lab Sample ID: LCS 860-71269/5
Matrix: Water
Analysis Batch: 71269

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			0.0199	0.01828		mg/L		92	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Trifluoroethane	*103*		*70 - 130*

Lab Sample ID: LCSD 860-71269/6
Matrix: Water
Analysis Batch: 71269

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
Methane			0.0199	0.01818		mg/L		91	70 - 130	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Trifluoroethane	*103*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-71339/3
Matrix: Water
Analysis Batch: 71339

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109	mg/L			09/30/22 17:50	1

Lab Sample ID: LCS 860-71339/6
Matrix: Water
Analysis Batch: 71339

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	10.00		mg/L		100	90 - 110		

Lab Sample ID: LCSD 860-71339/7
Matrix: Water
Analysis Batch: 71339

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
Sulfate			10.0	9.987		mg/L		100	90 - 110	0	20

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3109-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-71339/5
Matrix: Water
Analysis Batch: 71339

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			0.500	0.5018		mg/L		100	50 - 150		

Lab Sample ID: 890-3109-1 MS
Matrix: Water
Analysis Batch: 71339

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	121	F1	10.0	130.2	4	mg/L		94	90 - 110		

Lab Sample ID: 890-3109-1 MSD
Matrix: Water
Analysis Batch: 71339

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	121	F1	10.0	130.9	4	mg/L		102	90 - 110	1	20

Lab Sample ID: MB 860-71340/3
Matrix: Water
Analysis Batch: 71340

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			09/30/22 17:50	1

Lab Sample ID: LCS 860-71340/6
Matrix: Water
Analysis Batch: 71340

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			10.0	9.468		mg/L		95	80 - 120		

Lab Sample ID: LCSD 860-71340/7
Matrix: Water
Analysis Batch: 71340

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
Nitrate as N			10.0	9.438		mg/L		94	80 - 120	0	20

Lab Sample ID: LLCS 860-71340/4
Matrix: Water
Analysis Batch: 71340

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.100	0.1025		mg/L		102	50 - 150		

Lab Sample ID: 890-3109-1 MS
Matrix: Water
Analysis Batch: 71340

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	1.95		10.0	11.45		mg/L		95	80 - 120		

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3109-1

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-71541/1-A
Matrix: Water
Analysis Batch: 71897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.000224	U	0.00200	0.000224	mg/L		10/03/22 09:30	10/04/22 23:53	1

Lab Sample ID: MB 860-71541/1-A
Matrix: Water
Analysis Batch: 72084

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 71541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.000224	U	0.00200	0.000224	mg/L		10/03/22 09:30	10/05/22 19:25	1

Lab Sample ID: LCS 860-71541/2-A
Matrix: Water
Analysis Batch: 71897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.1019		mg/L		102	80 - 120

Lab Sample ID: LCS 860-71541/2-A
Matrix: Water
Analysis Batch: 72084

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 71541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.09490		mg/L		95	80 - 120

Lab Sample ID: LCSD 860-71541/3-A
Matrix: Water
Analysis Batch: 71897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71541

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.100	0.1074		mg/L		107	80 - 120	5	20

Lab Sample ID: LCSD 860-71541/3-A
Matrix: Water
Analysis Batch: 72084

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 71541

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.100	0.1051		mg/L		105	80 - 120	10	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-72395/4
Matrix: Water
Analysis Batch: 72395

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			10/07/22 11:55	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			10/07/22 11:55	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			10/07/22 11:55	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			10/07/22 11:55	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			10/07/22 11:55	1

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3109-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCS 860-72395/5
Matrix: Water
Analysis Batch: 72395

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	237.6		mg/L		95	85 - 115

Lab Sample ID: LCSD 860-72395/6
Matrix: Water
Analysis Batch: 72395

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
Alkalinity	250	238.8		mg/L		96	85 - 115	1	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 860-72055/3
Matrix: Water
Analysis Batch: 72055

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			10/05/22 16:45	1

Lab Sample ID: LCS 860-72055/4
Matrix: Water
Analysis Batch: 72055

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	1.00	0.9000		mg/L		90	75 - 125

Lab Sample ID: LCSD 860-72055/5
Matrix: Water
Analysis Batch: 72055

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
Ferrous Iron	1.00	0.9000		mg/L		90	75 - 125	0	25

Lab Sample ID: 890-3109-1 DU
Matrix: Water
Analysis Batch: 72055

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ferrous Iron	0.470	HF	0.4400		mg/L		7	25

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3109-1

GC VOA

Analysis Batch: 71269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3109-1	MW-23	Total/NA	Water	RSK-175	
890-3109-2	MW-24	Total/NA	Water	RSK-175	
MB 860-71269/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-71269/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-71269/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 71339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3109-1	MW-23	Total/NA	Water	300.0	
890-3109-2	MW-24	Total/NA	Water	300.0	
MB 860-71339/3	Method Blank	Total/NA	Water	300.0	
LCS 860-71339/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-71339/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-71339/5	Lab Control Sample	Total/NA	Water	300.0	
890-3109-1 MS	MW-23	Total/NA	Water	300.0	
890-3109-1 MSD	MW-23	Total/NA	Water	300.0	

Analysis Batch: 71340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3109-1	MW-23	Total/NA	Water	300.0	
890-3109-2	MW-24	Total/NA	Water	300.0	
MB 860-71340/3	Method Blank	Total/NA	Water	300.0	
LCS 860-71340/6	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-71340/7	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-71340/4	Lab Control Sample	Total/NA	Water	300.0	
890-3109-1 MS	MW-23	Total/NA	Water	300.0	

Metals

Prep Batch: 71541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3109-1	MW-23	Total/NA	Water	3010A	
890-3109-2	MW-24	Total/NA	Water	3010A	
MB 860-71541/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-71541/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-71541/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 71897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-71541/1-A	Method Blank	Total/NA	Water	6020A	71541
LCS 860-71541/2-A	Lab Control Sample	Total/NA	Water	6020A	71541
LCSD 860-71541/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	71541

Analysis Batch: 72084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3109-1	MW-23	Total/NA	Water	6020A	71541
890-3109-2	MW-24	Total/NA	Water	6020A	71541
MB 860-71541/1-A	Method Blank	Total/NA	Water	6020A	71541
LCS 860-71541/2-A	Lab Control Sample	Total/NA	Water	6020A	71541
LCSD 860-71541/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	71541

QC Association Summary

Client: Talon/LPE
Job ID: 890-3109-1
Project/Site: Hobbs Junction Mainline (HJM)

General Chemistry

Analysis Batch: 72055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3109-1	MW-23	Total/NA	Water	SM 3500 FE D	
890-3109-2	MW-24	Total/NA	Water	SM 3500 FE D	
MB 860-72055/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-72055/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 860-72055/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	
890-3109-1 DU	MW-23	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 72395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3109-1	MW-23	Total/NA	Water	SM 2320B	
890-3109-2	MW-24	Total/NA	Water	SM 2320B	
MB 860-72395/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-72395/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-72395/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Talon/LPE
Job ID: 890-3109-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-23
Lab Sample ID: 890-3109-1
Date Collected: 09/29/22 09:15
Matrix: Water
Date Received: 09/29/22 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	71269	09/30/22 15:28	CZT	EET HOU
Total/NA	Analysis	300.0		1			71339	09/30/22 18:47	A1S	EET HOU
Total/NA	Analysis	300.0		1			71340	09/30/22 18:47	A1S	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71541	10/03/22 09:30	MD	EET HOU
Total/NA	Analysis	6020A		1			72084	10/05/22 20:17	SHZ	EET HOU
Total/NA	Analysis	SM 2320B		1			72395	10/07/22 13:10	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	72055	10/05/22 16:45	SCI	EET HOU

Client Sample ID: MW-24
Lab Sample ID: 890-3109-2
Date Collected: 09/29/22 10:18
Matrix: Water
Date Received: 09/29/22 12:13

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	71269	09/30/22 15:45	CZT	EET HOU
Total/NA	Analysis	300.0		1			71339	09/30/22 19:21	A1S	EET HOU
Total/NA	Analysis	300.0		1			71340	09/30/22 19:21	A1S	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	71541	10/03/22 09:30	MD	EET HOU
Total/NA	Analysis	6020A		1			72084	10/05/22 20:20	SHZ	EET HOU
Total/NA	Analysis	SM 2320B		1			72395	10/07/22 13:51	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	72055	10/05/22 16:45	SCI	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Talon/LPE
Job ID: 890-3109-1
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-47	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
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3109-1

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	EET HOU
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 3500 FE D	Iron, Ferrous and Ferric	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique, RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3109-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3109-1	MW-23	Water	09/29/22 09:15	09/29/22 12:13
890-3109-2	MW-24	Water	09/29/22 10:18	09/29/22 12:13

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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# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline (HJM)	Turn Around	☑ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:	Lea, County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	M. Gomez, K. Taylor		
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TAM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.4
Total Containers:		Corrected Temperature:	3.2

ANALYSIS REQUEST

Pres. Code

Parameters

MNA Parameters

890-3109 Chain of Custody

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	MNA Parameters
MW-23	GW	9/29/22	9:15	N/A		5	X
MW-24	GW	9/29/22	10:18	N/A		5	X

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 Matthew Gomez	Amanda Stelz	9/29/22 1213			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-3109-1

Login Number: 3109 **List Source: Eurofins Carlsbad**
List Number: 1
Creator: Stutzman, Amanda

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: 890-3109-1

Login Number: 3109 **List Source: Eurofins Houston**
List Number: 2 **List Creation: 09/30/22 02:42 PM**
Creator: Bolch, Taylor

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?	N/A	
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	

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ANALYTICAL REPORT

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-3110-1
Client Project/Site: Hobbs Junction Mainline (HJM)

For:
Talon/LPE
408 W. Texas St.
Artesia, New Mexico 88210

Attn: David Adkins

JKramer

Authorized for release by:
10/10/2022 11:30:22 AM

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

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory Job ID: 890-3110-1

Table of Contents

Definitions/Glossary

Client: Talon/LPE Job ID: 890-3110-1
Project/Site: Hobbs Junction Mainline (HJM)

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
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
Job ID: 890-3110-1
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 890-3110-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3110-1

Receipt
The samples were received on 9/29/2022 12:13 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 3.2°C

GC VOA
Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-36469 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.

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
Job ID: 890-3110-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-23
Lab Sample ID: 890-3110-1
Date Collected: 09/29/22 09:15
Matrix: Water
Date Received: 09/29/22 12:13

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			10/09/22 14:37	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/09/22 14:37	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/09/22 14:37	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/09/22 14:37	1
o-Xylene	<0.000642	U *+ *1	0.00200	0.000642	mg/L			10/09/22 14:37	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/09/22 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*		*10/09/22 14:37*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*		*10/09/22 14:37*	*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			10/10/22 10:23	1

Client Sample ID: MW-24
Lab Sample ID: 890-3110-2
Date Collected: 09/29/22 10:18
Matrix: Water
Date Received: 09/29/22 12:13

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			10/09/22 14:58	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/09/22 14:58	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/09/22 14:58	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/09/22 14:58	1
o-Xylene	<0.000642	U *+ *1	0.00200	0.000642	mg/L			10/09/22 14:58	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/09/22 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*10/09/22 14:58*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*10/09/22 14:58*	*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			10/10/22 10:23	1

Surrogate Summary

Client: Talon/LPE
Job ID: 890-3110-1
Project/Site: Hobbs Junction Mainline (HJM)

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)										
890-3110-1	MW-23	76	91										
890-3110-2	MW-24	96	92										
LCS 880-36469/3	Lab Control Sample	108	106										
LCSD 880-36469/4	Lab Control Sample Dup	128	92										
MB 880-36469/8	Method Blank	86	91										

Surrogate Legend

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

QC Sample Results

Client: Talon/LPE
Job ID: 890-3110-1
Project/Site: Hobbs Junction Mainline (HJM)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-36469/8
Matrix: Water
Analysis Batch: 36469

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			10/09/22 13:35	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			10/09/22 13:35	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			10/09/22 13:35	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			10/09/22 13:35	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			10/09/22 13:35	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			10/09/22 13:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*70 - 130*		*10/09/22 13:35*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*		*10/09/22 13:35*	*1*

Lab Sample ID: LCS 880-36469/3
Matrix: Water
Analysis Batch: 36469

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	0.09735		mg/L		97	70 - 130		
Toluene			0.100	0.09020		mg/L		90	70 - 130		
Ethylbenzene			0.100	0.09559		mg/L		96	70 - 130		
m-Xylene & p-Xylene			0.200	0.2049		mg/L		102	70 - 130		
o-Xylene			0.100	0.1134		mg/L		113	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-36469/4
Matrix: Water
Analysis Batch: 36469

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	0.09825		mg/L		98	70 - 130	1	20
Toluene			0.100	0.1000		mg/L		100	70 - 130	10	20
Ethylbenzene			0.100	0.1152		mg/L		115	70 - 130	19	20
m-Xylene & p-Xylene			0.200	0.2504		mg/L		125	70 - 130	20	20
o-Xylene			0.100	0.1404	*+ *1	mg/L		140	70 - 130	21	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

QC Association Summary

Client: Talon/LPE Job ID: 890-3110-1
Project/Site: Hobbs Junction Mainline (HJM)

GC VOA

Analysis Batch: 36469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3110-1	MW-23	Total/NA	Water	8021B	
890-3110-2	MW-24	Total/NA	Water	8021B	
MB 880-36469/8	Method Blank	Total/NA	Water	8021B	
LCS 880-36469/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-36469/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 36535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3110-1	MW-23	Total/NA	Water	Total BTEX	
890-3110-2	MW-24	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Talon/LPE
Job ID: 890-3110-1
Project/Site: Hobbs Junction Mainline (HJM)

Client Sample ID: MW-23
Lab Sample ID: 890-3110-1
Date Collected: 09/29/22 09:15
Matrix: Water
Date Received: 09/29/22 12:13

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	36469	10/09/22 14:37	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36535	10/10/22 10:23	AJ	EET MID

Client Sample ID: MW-24
Lab Sample ID: 890-3110-2
Date Collected: 09/29/22 10:18
Matrix: Water
Date Received: 09/29/22 12:13

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	36469	10/09/22 14:58	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			36535	10/10/22 10:23	AJ	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 Job ID: 890-3110-1
Project/Site: Hobbs Junction Mainline (HJM)

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	T104704400-22-24	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

Job ID: 890-3110-1

Project/Site: Hobbs Junction Mainline (HJM)

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

Job ID: 890-3110-1

Project/Site: Hobbs Junction Mainline (HJM)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3110-1	MW-23	Water	09/29/22 09:15	09/29/22 12:13
890-3110-2	MW-24	Water	09/29/22 10:18	09/29/22 12:13

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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# 2003-00017
Phone:	575-441-4835	Email:	dadkins@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:	Hobbs Junction Mainline (HJM)	Turn Around	☑ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:	Lea, County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	M. Gomez, K. Taylor		
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IAM-001
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	3.4
Total Containers:		Corrected Temperature:	3.2

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_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	Pres. Code	Parameters: BTEX 8021B
MW-23	GW	9/29/22	9:15	N/A		3		X
MW-24	"	"	10:18	"		3		X

890-3110 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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Matthew Gomez	Amanda Luttrell	9/29/22 12:13	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-3110-1

Login Number: 3110 **List Source: Eurofins Carlsbad**
List Number: 1
Creator: Stutzman, Amanda

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: 890-3110-1

Login Number: 3110 **List Source: Eurofins Midland**
List Number: 2 **List Creation: 09/30/22 10:25 AM**
Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/5/2023 11:47:58 AM

JOB DESCRIPTION

Hobbs Junction Mainline
SDG NUMBER Lea County

JOB NUMBER

890-3719-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

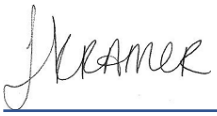
See page two for job notes and contact information.

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



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1/5/2023 11:47:58 AM

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

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Laboratory Job ID: 890-3719-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-3719-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
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: Hobbs Junction Mainline

Job ID: 890-3719-1
SDG: Lea County

Job ID: 890-3719-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3719-1

Receipt
The samples were received on 12/28/2022 12:24 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 4.0°C

GC VOA
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: Hobbs Junction Mainline

Job ID: 890-3719-1
SDG: Lea County

Client Sample ID: MW-23

Lab Sample ID: 890-3719-1
Matrix: Water
Date Collected: 12/28/22 10:35
Date Received: 12/28/22 12:24
Sample Depth: N/A

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			01/05/23 01:44	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/05/23 01:44	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			01/05/23 01:44	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/05/23 01:44	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/05/23 01:44	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/05/23 01:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*01/05/23 01:44*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*		*01/05/23 01:44*	*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			01/05/23 10:15	1

Client Sample ID: MW-7

Lab Sample ID: 890-3719-2
Matrix: Water
Date Collected: 12/28/22 09:30
Date Received: 12/28/22 12:24
Sample Depth: N/A

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			01/05/23 02:05	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/05/23 02:05	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			01/05/23 02:05	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/05/23 02:05	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/05/23 02:05	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/05/23 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*01/05/23 02:05*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*		*01/05/23 02:05*	*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			01/05/23 10:15	1

Client Sample ID: MW-28

Lab Sample ID: 890-3719-3
Matrix: Water
Date Collected: 12/28/22 08:00
Date Received: 12/28/22 12:24
Sample Depth: N/A

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			01/05/23 02:25	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/05/23 02:25	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			01/05/23 02:25	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/05/23 02:25	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/05/23 02:25	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/05/23 02:25	1

Client Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-3719-1
SDG: Lea County

Client Sample ID: MW-28

Lab Sample ID: 890-3719-3
Matrix: Water
Date Collected: 12/28/22 08:00
Date Received: 12/28/22 12:24
Sample Depth: N/A

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*01/05/23 02:25*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*		*01/05/23 02:25*	*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			01/05/23 10:15	1

Client Sample ID: MW-33

Lab Sample ID: 890-3719-4
Matrix: Water
Date Collected: 12/28/22 10:40
Date Received: 12/28/22 12:24
Sample Depth: N/A

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			01/05/23 02:46	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/05/23 02:46	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			01/05/23 02:46	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/05/23 02:46	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/05/23 02:46	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/05/23 02:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*01/05/23 02:46*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*		*01/05/23 02:46*	*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			01/05/23 10:15	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-3719-1
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)										
890-3719-1	MW-23	102	107										
890-3719-2	MW-7	104	107										
890-3719-3	MW-28	105	108										
890-3719-4	MW-33	105	108										
LCS 880-43117/34	Lab Control Sample	102	106										
LCSD 880-43117/35	Lab Control Sample Dup	98	117										
MB 880-43114/5-A	Method Blank	97	107										
MB 880-43117/39	Method Blank	100	106										

Surrogate Legend

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

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-3719-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43114/5-A
Matrix: Water
Analysis Batch: 43117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		01/04/23 08:41	01/04/23 12:40	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		01/04/23 08:41	01/04/23 12:40	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		01/04/23 08:41	01/04/23 12:40	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		01/04/23 08:41	01/04/23 12:40	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		01/04/23 08:41	01/04/23 12:40	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		01/04/23 08:41	01/04/23 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/04/23 08:41*	*01/04/23 12:40*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/04/23 08:41*	*01/04/23 12:40*	*1*

Lab Sample ID: MB 880-43117/39
Matrix: Water
Analysis Batch: 43117

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			01/05/23 00:14	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/05/23 00:14	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			01/05/23 00:14	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/05/23 00:14	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/05/23 00:14	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/05/23 00:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/05/23 00:14*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*01/05/23 00:14*	*1*

Lab Sample ID: LCS 880-43117/34
Matrix: Water
Analysis Batch: 43117

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	0.1009		mg/L		101	70 - 130
Toluene	0.100	0.09587		mg/L		96	70 - 130
Ethylbenzene	0.100	0.09356		mg/L		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1953		mg/L		98	70 - 130
o-Xylene	0.100	0.09310		mg/L		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-43117/35
Matrix: Water
Analysis Batch: 43117

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	0.1000		mg/L		100	70 - 130	1	20

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-3719-1
SDG: Lea County

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

Lab Sample ID: LCSD 880-43117/35
Matrix: Water
Analysis Batch: 43117

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	0.09771		mg/L		98	70 - 130	2	20
Ethylbenzene			0.100	0.09514		mg/L		95	70 - 130	2	20
m-Xylene & p-Xylene			0.200	0.1972		mg/L		99	70 - 130	1	20
o-Xylene			0.100	0.09631		mg/L		96	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-3719-1
SDG: Lea County

GC VOA

Prep Batch: 43114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43114/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 43117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3719-1	MW-23	Total/NA	Water	8021B	
890-3719-2	MW-7	Total/NA	Water	8021B	
890-3719-3	MW-28	Total/NA	Water	8021B	
890-3719-4	MW-33	Total/NA	Water	8021B	
MB 880-43114/5-A	Method Blank	Total/NA	Water	8021B	43114
MB 880-43117/39	Method Blank	Total/NA	Water	8021B	
LCS 880-43117/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-43117/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 43224

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3719-1	MW-23	Total/NA	Water	Total BTEX	
890-3719-2	MW-7	Total/NA	Water	Total BTEX	
890-3719-3	MW-28	Total/NA	Water	Total BTEX	
890-3719-4	MW-33	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline

Job ID: 890-3719-1
SDG: Lea County

Client Sample ID: MW-23

Date Collected: 12/28/22 10:35
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3719-1
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	43117	01/05/23 01:44	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43224	01/05/23 10:15	AJ	EET MID

Client Sample ID: MW-7

Date Collected: 12/28/22 09:30
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3719-2
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	43117	01/05/23 02:05	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43224	01/05/23 10:15	AJ	EET MID

Client Sample ID: MW-28

Date Collected: 12/28/22 08:00
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3719-3
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	43117	01/05/23 02:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43224	01/05/23 10:15	AJ	EET MID

Client Sample ID: MW-33

Date Collected: 12/28/22 10:40
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3719-4
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	43117	01/05/23 02:46	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43224	01/05/23 10:15	AJ	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: Hobbs Junction Mainline

Job ID: 890-3719-1
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: Hobbs Junction Mainline

Job ID: 890-3719-1
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: Hobbs Junction Mainline

Job ID: 890-3719-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3719-1	MW-23	Water	12/28/22 10:35	12/28/22 12:24	N/A
890-3719-2	MW-7	Water	12/28/22 09:30	12/28/22 12:24	N/A
890-3719-3	MW-28	Water	12/28/22 08:00	12/28/22 12:24	N/A
890-3719-4	MW-33	Water	12/28/22 10:40	12/28/22 12:24	N/A

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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# 2003-00017
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:	Hobbs Junction Mainline (HJM)	Turn Around	☑ Routine ☐ Rush
Project Number:		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# 2003-00017		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TN007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2
Total Containers:		Corrected Temperature:	4.0

ANALYSIS REQUEST

Parameters: BTEX 8021B

890-3719 Chain of Custody

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_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-23	GW	12/28/22	10:35	N/A		3	X
MW-7	GW	12/28/22	9:30	N/A		3	X
MW-28	GW	12/27/22	8:00	N/A		3	X
MW-53	GW	12/28/22	10:40	N/A		3	X

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		12.28.22 1234	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3719-1
SDG Number: Lea County

Login Number: 3719
List Number: 1
Creator: Clifton, Cloe

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: 890-3719-1
SDG Number: Lea County

Login Number: 3719
List Number: 2
Creator: Teel, Brianna

List Source: Eurofins Midland
List Creation: 12/29/22 11:42 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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/10/2023 2:48:18 PM

JOB DESCRIPTION

HOBBS JUNCTION MAINLINE (HJM)
SDG NUMBER Lea County

JOB NUMBER

890-3721-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

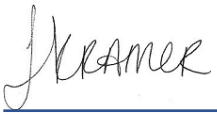
See page two for job notes and contact information.

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



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1/10/2023 2:48:18 PM

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

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Laboratory Job ID: 890-3721-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Job ID: 890-3721-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-3721-1

Receipt
The sample was received on 12/28/2022 12:24 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-83836 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 / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

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

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

General Chemistry
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: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Client Sample ID: MW-23

Date Collected: 12/28/22 10:35
Date Received: 12/28/22 12:24
Sample Depth: N/A

Lab Sample ID: 890-3721-1

Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			01/05/23 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*107*		*70 - 130*		*01/05/23 16:12*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**1.65**		0.100	0.0391	mg/L			12/29/22 16:47	1
Sulfate	**109**		0.500	0.109	mg/L			12/29/22 16:47	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.00528**		0.00200	0.000224	mg/L		01/07/23 10:30	01/09/23 21:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**295**		4.00	4.00	mg/L			01/03/23 14:59	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**295**		4.00	4.00	mg/L			01/03/23 14:59	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 14:59	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 14:59	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 14:59	1
Ferrous Iron (SM 3500 FE D)	**0.160**	**HF**	0.0500	0.0280	mg/L			12/29/22 17:49	1

Surrogate Summary

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	fluoroethan (70-130)							
890-3721-1	MW-23	107							
LCS 860-84285/5	Lab Control Sample	111							
LCSD 860-84285/6	Lab Control Sample Dup	111							
MB 860-84285/4	Method Blank	112							

Surrogate Legend

Trifluoroethane = Trifluoroethane

QC Sample Results

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-84285/4
Matrix: Water
Analysis Batch: 84285

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			01/05/23 14:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*112*		*70 - 130*		*01/05/23 14:16*	*1*

Lab Sample ID: LCS 860-84285/5
Matrix: Water
Analysis Batch: 84285

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			0.0199	0.01885		mg/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Trifluoroethane	*111*		*70 - 130*

Lab Sample ID: LCSD 860-84285/6
Matrix: Water
Analysis Batch: 84285

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
Methane			0.0199	0.01880		mg/L		95	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Trifluoroethane	*111*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-83836/3
Matrix: Water
Analysis Batch: 83836

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109	mg/L			12/29/22 15:27	1

Lab Sample ID: LCS 860-83836/4
Matrix: Water
Analysis Batch: 83836

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	9.358		mg/L		94	90 - 110		

Lab Sample ID: LCSD 860-83836/5
Matrix: Water
Analysis Batch: 83836

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
Sulfate			10.0	9.333		mg/L		93	90 - 110	0	20

QC Sample Results

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-83836/7
Matrix: Water
Analysis Batch: 83836

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			0.500	0.5451		mg/L		109	50 - 150		

Lab Sample ID: 890-3721-1 MS
Matrix: Water
Analysis Batch: 83836

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	109		10.0	133.6	4	mg/L		243	90 - 110		

Lab Sample ID: 890-3721-1 MSD
Matrix: Water
Analysis Batch: 83836

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	109		10.0	133.4	4	mg/L		241	90 - 110	0	20

Lab Sample ID: MB 860-83837/3
Matrix: Water
Analysis Batch: 83837

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			12/29/22 15:27	1

Lab Sample ID: LCS 860-83837/4
Matrix: Water
Analysis Batch: 83837

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			10.0	9.430		mg/L		94	80 - 120		

Lab Sample ID: LCSD 860-83837/5
Matrix: Water
Analysis Batch: 83837

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
Nitrate as N			10.0	9.414		mg/L		94	80 - 120	0	20

Lab Sample ID: LLCS 860-83837/6
Matrix: Water
Analysis Batch: 83837

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.100	0.1189		mg/L		119	50 - 150		

Lab Sample ID: 890-3721-1 MS
Matrix: Water
Analysis Batch: 83837

Client Sample ID: MW-23
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	1.65		10.0	11.13		mg/L		95	80 - 120		

QC Sample Results

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-3721-1 MSD — **Client Sample ID: MW-23**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 83837

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	1.65		10.0	11.11		mg/L		95	80 - 120	0	15

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-84810/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 85132 — **Prep Batch: 84810**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.000224	U	0.00200	0.000224	mg/L		01/07/23 10:30	01/09/23 21:05	1

Lab Sample ID: LCS 860-84810/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 85132 — **Prep Batch: 84810**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.09943		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-84810/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 85132 — **Prep Batch: 84810**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.100	0.09711		mg/L		97	80 - 120	2	20

Lab Sample ID: 890-3721-1 MS — **Client Sample ID: MW-23**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 85132 — **Prep Batch: 84810**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.00528		0.100	0.09494		mg/L		90	75 - 125

Lab Sample ID: 890-3721-1 MSD — **Client Sample ID: MW-23**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 85132 — **Prep Batch: 84810**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.00528		0.100	0.09839		mg/L		93	75 - 125	4	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-84201/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 84201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			01/03/23 11:37	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			01/03/23 11:37	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			01/03/23 11:37	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			01/03/23 11:37	1

QC Sample Results

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-84201/3
Matrix: Water
Analysis Batch: 84201

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			01/03/23 11:37	1

Lab Sample ID: LCS 860-84201/4
Matrix: Water
Analysis Batch: 84201

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	248.7		mg/L		99	85 - 115

Lab Sample ID: LCSD 860-84201/5
Matrix: Water
Analysis Batch: 84201

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
Alkalinity	250	255.2		mg/L		102	85 - 115	3	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 860-83873/3
Matrix: Water
Analysis Batch: 83873

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			12/29/22 17:49	1

Lab Sample ID: LCS 860-83873/4
Matrix: Water
Analysis Batch: 83873

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	1.00	0.9100		mg/L		91	75 - 125

Lab Sample ID: LCSD 860-83873/5
Matrix: Water
Analysis Batch: 83873

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
Ferrous Iron	1.00	0.9100		mg/L		91	75 - 125	0	25

QC Association Summary

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

GC VOA

Analysis Batch: 84285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3721-1	MW-23	Total/NA	Water	RSK-175	
MB 860-84285/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-84285/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-84285/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 83836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3721-1	MW-23	Total/NA	Water	300.0	
MB 860-83836/3	Method Blank	Total/NA	Water	300.0	
LCS 860-83836/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-83836/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-83836/7	Lab Control Sample	Total/NA	Water	300.0	
890-3721-1 MS	MW-23	Total/NA	Water	300.0	
890-3721-1 MSD	MW-23	Total/NA	Water	300.0	

Analysis Batch: 83837

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3721-1	MW-23	Total/NA	Water	300.0	
MB 860-83837/3	Method Blank	Total/NA	Water	300.0	
LCS 860-83837/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-83837/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-83837/6	Lab Control Sample	Total/NA	Water	300.0	
890-3721-1 MS	MW-23	Total/NA	Water	300.0	
890-3721-1 MSD	MW-23	Total/NA	Water	300.0	

Metals

Prep Batch: 84810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3721-1	MW-23	Total/NA	Water	3010A	
MB 860-84810/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-84810/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-84810/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
890-3721-1 MS	MW-23	Total/NA	Water	3010A	
890-3721-1 MSD	MW-23	Total/NA	Water	3010A	

Analysis Batch: 85132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3721-1	MW-23	Total/NA	Water	6020A	84810
MB 860-84810/1-A	Method Blank	Total/NA	Water	6020A	84810
LCS 860-84810/2-A	Lab Control Sample	Total/NA	Water	6020A	84810
LCSD 860-84810/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	84810
890-3721-1 MS	MW-23	Total/NA	Water	6020A	84810
890-3721-1 MSD	MW-23	Total/NA	Water	6020A	84810

General Chemistry

Analysis Batch: 83873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3721-1	MW-23	Total/NA	Water	SM 3500 FE D	

QC Association Summary

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

General Chemistry (Continued)

Analysis Batch: 83873 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-83873/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-83873/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 860-83873/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 84201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3721-1	MW-23	Total/NA	Water	SM 2320B	
MB 860-84201/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-84201/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-84201/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Client Sample ID: MW-23

Date Collected: 12/28/22 10:35
Date Received: 12/28/22 12:24

Lab Sample ID: 890-3721-1

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	RSK-175		1	33 mL	33 mL	84285	01/05/23 16:12	DD	EET HOU
Total/NA	Analysis	300.0		1			83836	12/29/22 16:47	A1S	EET HOU
Total/NA	Analysis	300.0		1			83837	12/29/22 16:47	A1S	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	84810	01/07/23 10:30	MD	EET HOU
Total/NA	Analysis	6020A		1			85132	01/09/23 21:14	DP	EET HOU
Total/NA	Analysis	SM 2320B		1			84201	01/03/23 14:59	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	83873	12/29/22 17:49	SCI	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-48	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
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	EET HOU
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 3500 FE D	Iron, Ferrous and Ferric	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Talon/LPE
Project/Site: HOBBS JUNCTION MAINLINE (HJM)

Job ID: 890-3721-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3721-1	MW-23	Water	12/28/22 10:35	12/28/22 12:24	N/A

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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# 2003-00017
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:	Hobbs Junction Mainline (HJM)	Turn Around	☑ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:	Lea, County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	M. Gomez, N. Rose		
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:	TM009	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2	
Total Containers:		Corrected Temperature:	4.0	

ANALYSIS REQUEST

890-3721 Chain of Custody

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_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	Pres. Code	Parameters: MNA Parameters	Sample Comments
MW-73	GW	12/28/22	10:35	N/A		5		X	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		12.28.22 1224	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-1079.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 890-3721-1
Address: 4145 Greenbriar Dr	Due Date Requested: 1/4/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: HOBBS JUNCTION MAINLINE (HJM)	Project #: 89000047			
Site:	SSOW#:			

Preservation Codes:

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Y	Trizma
		Z	other (specify)

Other:

Analysis Requested

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ Sulfate	300_ORGFMS/ (MOD) Nitrate	3500_FE_D/ Ferrous Iron	2320B/ Alkalinity	6020A/3010A (MOD) Manganese	RSK_175/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-23 (890-3721-1)	12/28/22	10:35 Mountain		Water			X	X	X	X	X	X	5	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Clay			FedEx		
2	FedEx				12/29/22 11.40AM	Ex
3						

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:
		C/F: +0.3 1.4 Corrected Temp: 1.7 Temp: IR ID: HOU 343

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3721-1
SDG Number: Lea County

Login Number: 3721
List Number: 1
Creator: Clifton, Cloe

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	
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: 890-3721-1
SDG Number: Lea County

Login Number: 3721
List Number: 2
Creator: Pena, Jesiel

List Source: Eurofins Houston
List Creation: 12/29/22 01:22 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?	N/A	
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	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/11/2023 2:59:07 PM

JOB DESCRIPTION

Hobbs Junction Mainline (HJM)
SDG NUMBER Lea County NM

JOB NUMBER

880-23177-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

my EOL

Eurofins Midland

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
1/11/2023 2:59:07 PM

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

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory Job ID: 880-23177-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
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: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Job ID: 880-23177-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23177-1

Receipt
The samples were received on 12/29/2022 4:11 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 2.3°C

GC VOA
Method RSK_175: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW-21 (880-23177-2). Elevated reporting limits (RLs) are provided.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 860-84010 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

General Chemistry
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: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Client Sample ID: MW-25

Date Collected: 12/29/22 09:15
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23177-1
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1330		5.00	0.453	ug/L			01/05/23 16:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*104*		*70 - 130*		*01/05/23 16:40*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.342		0.100	0.0391	mg/L			12/31/22 00:04	1
Sulfate	66.0		0.500	0.109	mg/L			12/31/22 00:04	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0267		0.00200	0.000224	mg/L		01/10/23 08:30	01/10/23 22:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	293		4.00	4.00	mg/L			01/03/23 15:07	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	293		4.00	4.00	mg/L			01/03/23 15:07	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 15:07	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 15:07	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 15:07	1
Ferrous Iron (SM 3500 FE D)	0.0500	HF	0.0500	0.0280	mg/L			01/05/23 14:45	1

Client Sample ID: MW-21

Date Collected: 12/29/22 10:40
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23177-2
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	1860		50.0	4.53	ug/L			01/05/23 17:44	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*104*		*70 - 130*		*01/05/23 16:56*	*1*
Trifluoroethane	*101*		*70 - 130*		*01/05/23 17:44*	*10*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.352		0.100	0.0391	mg/L			12/31/22 01:10	1
Sulfate	26.7		0.500	0.109	mg/L			12/31/22 01:10	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0611		0.00200	0.000224	mg/L		01/10/23 08:30	01/10/23 23:16	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	394		4.00	4.00	mg/L			01/03/23 15:16	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	394		4.00	4.00	mg/L			01/03/23 15:16	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 15:16	1

Eurofins Midland

Client Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Client Sample ID: MW-21

Lab Sample ID: 880-23177-2
Date Collected: 12/29/22 10:40
Matrix: Water
Date Received: 12/29/22 16:11

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 15:16	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 15:16	1
Ferrous Iron (SM 3500 FE D)	**0.510**	**HF**	0.0500	0.0280	mg/L			01/05/23 14:45	1

Client Sample ID: MW-24

Lab Sample ID: 880-23177-3
Date Collected: 12/29/22 12:20
Matrix: Water
Date Received: 12/29/22 16:11

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.554**	**J**	5.00	0.453	ug/L			01/05/23 17:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*106*		*70 - 130*		*01/05/23 17:13*	*1*

Method: MCAWW 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**2.30**		0.100	0.0391	mg/L			12/31/22 01:23	1
Sulfate	**95.4**		0.500	0.109	mg/L			12/31/22 01:23	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.00545**		0.00200	0.000224	mg/L		01/10/23 08:30	01/10/23 23:19	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	**234**		4.00	4.00	mg/L			01/03/23 15:26	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	**234**		4.00	4.00	mg/L			01/03/23 15:26	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 15:26	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 15:26	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			01/03/23 15:26	1
Ferrous Iron (SM 3500 FE D)	**0.160**	**HF**	0.0500	0.0280	mg/L			01/05/23 14:45	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Method: RSK-175 - Dissolved Gases (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	fluoroethar (70-130)							
880-23177-1	MW-25	104							
880-23177-2	MW-21	104							
880-23177-2	MW-21	101							
880-23177-3	MW-24	106							
LCS 860-84285/5	Lab Control Sample	111							
LCSD 860-84285/6	Lab Control Sample Dup	111							
MB 860-84285/4	Method Blank	112							

Surrogate Legend

Trifluoroethane = Trifluoroethane

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-84285/4
Matrix: Water
Analysis Batch: 84285

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.453	U	5.00	0.453	ug/L			01/05/23 14:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*112*		*70 - 130*		*01/05/23 14:16*	*1*

Lab Sample ID: LCS 860-84285/5
Matrix: Water
Analysis Batch: 84285

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane			19.9	18.85		ug/L		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Trifluoroethane	*111*		*70 - 130*

Lab Sample ID: LCSD 860-84285/6
Matrix: Water
Analysis Batch: 84285

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
Methane			19.9	18.80		ug/L		95	70 - 130	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Trifluoroethane	*111*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-84010/3
Matrix: Water
Analysis Batch: 84010

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109	mg/L			12/30/22 19:53	1

Lab Sample ID: LCS 860-84010/4
Matrix: Water
Analysis Batch: 84010

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			10.0	9.447		mg/L		94	90 - 110		

Lab Sample ID: LCSD 860-84010/5
Matrix: Water
Analysis Batch: 84010

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
Sulfate			10.0	9.450		mg/L		94	90 - 110	0	20

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-84010/7
Matrix: Water
Analysis Batch: 84010

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate			0.500	0.5538		mg/L		111	50 - 150		

Lab Sample ID: 880-23177-1 MS
Matrix: Water
Analysis Batch: 84010

Client Sample ID: MW-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	66.0		10.0	75.09	4	mg/L		91	90 - 110		

Lab Sample ID: 880-23177-1 MSD
Matrix: Water
Analysis Batch: 84010

Client Sample ID: MW-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	66.0		10.0	75.11	4	mg/L		91	90 - 110	0	20

Lab Sample ID: MB 860-84011/3
Matrix: Water
Analysis Batch: 84011

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			12/30/22 19:53	1

Lab Sample ID: LCS 860-84011/4
Matrix: Water
Analysis Batch: 84011

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			10.0	9.561		mg/L		96	80 - 120		

Lab Sample ID: LCSD 860-84011/5
Matrix: Water
Analysis Batch: 84011

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
Nitrate as N			10.0	9.555		mg/L		96	80 - 120	0	20

Lab Sample ID: LLCS 860-84011/6
Matrix: Water
Analysis Batch: 84011

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

Analyte			Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N			0.100	0.1201		mg/L		120	50 - 150		

Lab Sample ID: 880-23177-1 MS
Matrix: Water
Analysis Batch: 84011

Client Sample ID: MW-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Nitrate as N	0.342		10.0	9.768		mg/L		94	80 - 120		

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-23177-1 MSD — **Client Sample ID: MW-25**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 84011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	0.342		10.0	9.760		mg/L		94	80 - 120	0	15

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-85070/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 85305 — **Prep Batch: 85070**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.000224	U	0.00200	0.000224	mg/L		01/10/23 08:30	01/10/23 22:47	1

Lab Sample ID: LCS 860-85070/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 85305 — **Prep Batch: 85070**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.1024		mg/L		102	80 - 120

Lab Sample ID: LCSD 860-85070/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 85305 — **Prep Batch: 85070**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.100	0.1017		mg/L		102	80 - 120	1	20

Lab Sample ID: 880-23177-1 MS — **Client Sample ID: MW-25**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 85305 — **Prep Batch: 85070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.0267		0.100	0.1205		mg/L		94	75 - 125

Lab Sample ID: 880-23177-1 MSD — **Client Sample ID: MW-25**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 85305 — **Prep Batch: 85070**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.0267		0.100	0.1185		mg/L		92	75 - 125	2	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-84201/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 84201

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			01/03/23 11:37	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			01/03/23 11:37	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			01/03/23 11:37	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			01/03/23 11:37	1

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-84201/3
Matrix: Water
Analysis Batch: 84201

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			01/03/23 11:37	1

Lab Sample ID: LCS 860-84201/4
Matrix: Water
Analysis Batch: 84201

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Alkalinity			250	248.7		mg/L		99	85 - 115		

Lab Sample ID: LCSD 860-84201/5
Matrix: Water
Analysis Batch: 84201

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
Alkalinity			250	255.2		mg/L		102	85 - 115	3	20

Lab Sample ID: 870-13491-B-4 DU
Matrix: Water
Analysis Batch: 84201

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	<4.00	U		<4.00	U	mg/L				NC	20
Bicarbonate Alkalinity as CaCO3	<4.00	U		<4.00	U	mg/L				NC	20
Carbonate Alkalinity as CaCO3	<4.00	U		<4.00	U	mg/L				NC	20
Hydroxide Alkalinity	<4.00	U		<4.00	U	mg/L				NC	20
Phenolphthalein Alkalinity	<4.00	U		<4.00	U	mg/L				NC	20

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 860-84543/3
Matrix: Water
Analysis Batch: 84543

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			01/05/23 14:45	1

Lab Sample ID: LCS 860-84543/4
Matrix: Water
Analysis Batch: 84543

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Ferrous Iron			1.00	0.8900		mg/L		89	75 - 125		

Lab Sample ID: LCSD 860-84543/5
Matrix: Water
Analysis Batch: 84543

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
Ferrous Iron			1.00	0.8900		mg/L		89	75 - 125	0	25

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: 880-23177-1 DU
Matrix: Water
Analysis Batch: 84543

Client Sample ID: MW-25
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	0.0500	HF		0.05000		mg/L				0	25

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

GC VOA

Analysis Batch: 84285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23177-1	MW-25	Total/NA	Water	RSK-175	
880-23177-2	MW-21	Total/NA	Water	RSK-175	
880-23177-2	MW-21	Total/NA	Water	RSK-175	
880-23177-3	MW-24	Total/NA	Water	RSK-175	
MB 860-84285/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-84285/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-84285/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 84010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23177-1	MW-25	Total/NA	Water	300.0	
880-23177-2	MW-21	Total/NA	Water	300.0	
880-23177-3	MW-24	Total/NA	Water	300.0	
MB 860-84010/3	Method Blank	Total/NA	Water	300.0	
LCS 860-84010/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-84010/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-84010/7	Lab Control Sample	Total/NA	Water	300.0	
880-23177-1 MS	MW-25	Total/NA	Water	300.0	
880-23177-1 MSD	MW-25	Total/NA	Water	300.0	

Analysis Batch: 84011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23177-1	MW-25	Total/NA	Water	300.0	
880-23177-2	MW-21	Total/NA	Water	300.0	
880-23177-3	MW-24	Total/NA	Water	300.0	
MB 860-84011/3	Method Blank	Total/NA	Water	300.0	
LCS 860-84011/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-84011/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-84011/6	Lab Control Sample	Total/NA	Water	300.0	
880-23177-1 MS	MW-25	Total/NA	Water	300.0	
880-23177-1 MSD	MW-25	Total/NA	Water	300.0	

Metals

Prep Batch: 85070

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23177-1	MW-25	Total/NA	Water	3010A	
880-23177-2	MW-21	Total/NA	Water	3010A	
880-23177-3	MW-24	Total/NA	Water	3010A	
MB 860-85070/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-85070/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-85070/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
880-23177-1 MS	MW-25	Total/NA	Water	3010A	
880-23177-1 MSD	MW-25	Total/NA	Water	3010A	

Analysis Batch: 85305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23177-1	MW-25	Total/NA	Water	6020A	85070
880-23177-2	MW-21	Total/NA	Water	6020A	85070
880-23177-3	MW-24	Total/NA	Water	6020A	85070

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Metals (Continued)

Analysis Batch: 85305 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-85070/1-A	Method Blank	Total/NA	Water	6020A	85070
LCS 860-85070/2-A	Lab Control Sample	Total/NA	Water	6020A	85070
LCSD 860-85070/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	85070
880-23177-1 MS	MW-25	Total/NA	Water	6020A	85070
880-23177-1 MSD	MW-25	Total/NA	Water	6020A	85070

General Chemistry

Analysis Batch: 84201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23177-1	MW-25	Total/NA	Water	SM 2320B	
880-23177-2	MW-21	Total/NA	Water	SM 2320B	
880-23177-3	MW-24	Total/NA	Water	SM 2320B	
MB 860-84201/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-84201/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-84201/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
870-13491-B-4 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 84543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23177-1	MW-25	Total/NA	Water	SM 3500 FE D	
880-23177-2	MW-21	Total/NA	Water	SM 3500 FE D	
880-23177-3	MW-24	Total/NA	Water	SM 3500 FE D	
MB 860-84543/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-84543/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 860-84543/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	
880-23177-1 DU	MW-25	Total/NA	Water	SM 3500 FE D	

Lab Chronicle

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Client Sample ID: MW-25

Date Collected: 12/29/22 09:15
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23177-1
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	RSK-175		1	33 mL	33 mL	84285	01/05/23 16:40	DD	EET HOU
Total/NA	Analysis	300.0		1			84010	12/31/22 00:04	RBNS	EET HOU
Total/NA	Analysis	300.0		1			84011	12/31/22 00:04	RBNS	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	85070	01/10/23 08:30	MD	EET HOU
Total/NA	Analysis	6020A		1			85305	01/10/23 22:56	DP	EET HOU
Total/NA	Analysis	SM 2320B		1			84201	01/03/23 15:07	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	84543	01/05/23 14:45	SCI	EET HOU

Client Sample ID: MW-21

Date Collected: 12/29/22 10:40
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23177-2
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	RSK-175		1	33 mL	33 mL	84285	01/05/23 16:56	DD	EET HOU
Total/NA	Analysis	RSK-175		10	33 mL	33 mL	84285	01/05/23 17:44	DD	EET HOU
Total/NA	Analysis	300.0		1			84010	12/31/22 01:10	RBNS	EET HOU
Total/NA	Analysis	300.0		1			84011	12/31/22 01:10	RBNS	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	85070	01/10/23 08:30	MD	EET HOU
Total/NA	Analysis	6020A		1			85305	01/10/23 23:16	DP	EET HOU
Total/NA	Analysis	SM 2320B		1			84201	01/03/23 15:16	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	84543	01/05/23 14:45	SCI	EET HOU

Client Sample ID: MW-24

Date Collected: 12/29/22 12:20
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23177-3
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	RSK-175		1	33 mL	33 mL	84285	01/05/23 17:13	DD	EET HOU
Total/NA	Analysis	300.0		1			84010	12/31/22 01:23	RBNS	EET HOU
Total/NA	Analysis	300.0		1			84011	12/31/22 01:23	RBNS	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	85070	01/10/23 08:30	MD	EET HOU
Total/NA	Analysis	6020A		1			85305	01/10/23 23:19	DP	EET HOU
Total/NA	Analysis	SM 2320B		1			84201	01/03/23 15:26	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	84543	01/05/23 14:45	SCI	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-48	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
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
RSK-175	Dissolved Gases (GC)	RSK	EET HOU
300.0	Anions, Ion Chromatography	MCAWW	EET HOU
6020A	Metals (ICP/MS)	SW846	EET HOU
SM 2320B	Alkalinity	SM	EET HOU
SM 3500 FE D	Iron, Ferrous and Ferric	SM	EET HOU
3010A	Preparation, Total Metals	SW846	EET HOU

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

RSK = Sample Prep And Calculations For Dissolved Gas Analysis In Water Samples Using A GC Headspace Equilibration Technique , RSKSOP-175, Rev. 0, 8/11/94, USEPA Research Lab

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23177-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23177-1	MW-25	Water	12/29/22 09:15	12/29/22 16:11
880-23177-2	MW-21	Water	12/29/22 10:40	12/29/22 16:11
880-23177-3	MW-24	Water	12/29/22 12:20	12/29/22 16:11

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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 C

880-23177 Chain of Custody

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# 2003-00017
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.	Hobbs Junction Mainline (HJM)	Turn Around	
Project Number		☑ Routine ☐ Rush	
Project Location	Lea, County	Due Date	
Sampler's Name	M. Gomez, N. Rose, K. Taylor	TAT starts the day received by the lab if received by 4 30pm	
PO #	SRS# 2003-00017		

SAMPLE RECEIPT			
Temp Blank.	Yes (No)	Wet Ice	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID	1298
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-0.3
Sample Custody Seals.	Yes No (N/A)	Temperature Reading	2.6
Total Containers		Corrected Temperature	2.3

ANALYSIS REQUEST

Pres. Code | Parameters | MNA Parameters

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	MNA Parameters
MW-25	GW	12/29/22	9:15	N/A		5	X
MW-21	"	"	10:40	"		5	X
MW-24	"	"	12:20	"		5	X

Preservative Codes

None NO | DI Water H_2O
Cool Cool | MeOH Me
HCL HC | HNO_3 HN
H_2SO_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 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	Kayla Taylor	J Kramer	12/29/22 1611	2		
3				4		
5				6		

Revised Date 08/25/2020 Rev 2020.2

Eurofins Midland
1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 880-6040.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 880-23177 1
Address: 4145 Greenbriar Dr	Due Date Requested: 1/5/2023			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: Hobbs Junction Mainline (HJM)	Project #: 89000087			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A HCL, B NaOH, C Zn Acetate, D Nitric Acid, E NaHSO4, F MeOH, G Amchlor, H Ascorbic Acid, I Ice, J DI Water, K EDTA, L EDA, M Hexane, N None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Y Trizma, Z other (specify), Other

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ Sulfate	300_ORGFMS/ (MOD) Nitrate	3500_FE_D/ Ferrous Iron	2320B/ Alkalinity	6020A/3010A (MOD) Manganese	RSK_175/ (MOD) Local Method	Total Number of containers	Special Instructions/Note:
			Preservation Code:											
MW-25 (880-23177 1)	12/29/22	09.15 Mountain		Water			X	X	X	X	X	X	5	
MW-21 (880-23177-2)	12/29/22	10:40 Mountain		Water			X	X	X	X	X	X	5	
MW-24 (880-23177-3)	12/29/22	12:20 Mountain		Water			X	X	X	X	X	X	5	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	FedEx			FedEx		
	Relinquished by:	Date/Time:	Company	Received by: Pedro Palmer	Date/Time: 12/30/2022 10:30	Company EX
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks: Temp: IR ID:HOU-343 C/F:+0.3 0.6 Corrected Temp: 0.9 Temp: IR ID:HOU-343

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 880-23177-1
SDG Number: Lea County NM

Login Number: 23177
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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: 880-23177-1
SDG Number: Lea County NM

Login Number: 23177
List Number: 2
Creator: Palmar, Pedro

List Source: Eurofins Houston
List Creation: 12/30/22 11:17 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?	N/A	
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	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 1/11/2023 12:47:57 PM

JOB DESCRIPTION

Hobbs Junction Mainline (HJM)
SDG NUMBER Lea County

JOB NUMBER

880-23189-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

Eurofins Midland

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
1/11/2023 12:47:57 PM

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

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Laboratory Job ID: 880-23189-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
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: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

Job ID: 880-23189-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-23189-1

Receipt
The samples were received on 12/29/2022 4:11 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 2.0°C

GC VOA
Method 8021B: The surrogate recovery for the blank associated with analytical batch 880-43695 was outside the control 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: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

Client Sample ID: MW-25

Lab Sample ID: 880-23189-1
Matrix: Water
Date Collected: 12/29/22 09:15
Date Received: 12/29/22 16:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00333**		0.00200	0.000408	mg/L			01/05/23 03:06	1
Toluene	**0.000607**	**J**	0.00200	0.000367	mg/L			01/05/23 03:06	1
Ethylbenzene	**0.00189**	**J**	0.00200	0.000657	mg/L			01/05/23 03:06	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/05/23 03:06	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/05/23 03:06	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/05/23 03:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*01/05/23 03:06*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*		*01/05/23 03:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00583**		0.00400	0.000657	mg/L			01/05/23 10:15	1

Client Sample ID: MW-21

Lab Sample ID: 880-23189-2
Matrix: Water
Date Collected: 12/29/22 10:40
Date Received: 12/29/22 16:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.613**		0.0400	0.00816	mg/L			01/11/23 12:16	20
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/05/23 03:26	1
Ethylbenzene	**0.211**		0.00200	0.000657	mg/L			01/05/23 03:26	1
m-Xylene & p-Xylene	**0.0182**		0.00400	0.000629	mg/L			01/05/23 03:26	1
o-Xylene	**0.00915**		0.00200	0.000642	mg/L			01/05/23 03:26	1
Xylenes, Total	**0.0274**		0.00400	0.000642	mg/L			01/05/23 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*		*01/05/23 03:26*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*		*01/05/23 03:26*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.851**		0.00400	0.000657	mg/L			01/05/23 10:15	1

Client Sample ID: MW-24

Lab Sample ID: 880-23189-3
Matrix: Water
Date Collected: 12/29/22 12:20
Date Received: 12/29/22 16:11

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00140**	**J**	0.00200	0.000408	mg/L			01/05/23 03:47	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/05/23 03:47	1
Ethylbenzene	**0.000889**	**J**	0.00200	0.000657	mg/L			01/05/23 03:47	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/05/23 03:47	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/05/23 03:47	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/05/23 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*01/05/23 03:47*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*		*01/05/23 03:47*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

Client Sample ID: MW-24

Date Collected: 12/29/22 12:20
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23189-3
Matrix: Water

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00229**	**J**	0.00400	0.000657	mg/L			01/05/23 10:15	1

Client Sample ID: MW-31

Date Collected: 12/29/22 09:30
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23189-4
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			01/05/23 05:37	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/05/23 05:37	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			01/05/23 05:37	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/05/23 05:37	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/05/23 05:37	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/05/23 05:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*01/05/23 05:37*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*01/05/23 05:37*	*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			01/05/23 10:15	1

Client Sample ID: MW-32

Date Collected: 12/29/22 10:00
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23189-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			01/05/23 05:57	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/05/23 05:57	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			01/05/23 05:57	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/05/23 05:57	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/05/23 05:57	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/05/23 05:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*01/05/23 05:57*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*		*01/05/23 05:57*	*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			01/05/23 10:15	1

Client Sample ID: MW-22

Date Collected: 12/29/22 10:14
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23189-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00291**		0.00200	0.000408	mg/L			01/05/23 06:17	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/05/23 06:17	1

Client Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

Client Sample ID: MW-22

Date Collected: 12/29/22 10:14
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23189-6

Matrix: Water

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			01/05/23 06:17	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/05/23 06:17	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/05/23 06:17	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/05/23 06:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*01/05/23 06:17*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*		*01/05/23 06:17*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00291**	**J**	0.00400	0.000657	mg/L			01/05/23 10:15	1

Surrogate Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
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)										
880-23097-A-1 MS	Matrix Spike	104	107										
880-23097-A-1 MSD	Matrix Spike Duplicate	98	106										
880-23189-1	MW-25	98	102										
880-23189-2	MW-21	92	109										
880-23189-2 MS	MW-21	105	108										
880-23189-2 MSD	MW-21	99	102										
880-23189-3	MW-24	102	108										
880-23189-4	MW-31	101	106										
880-23189-5	MW-32	109	110										
880-23189-6	MW-22	112	110										
LCS 880-43117/34	Lab Control Sample	102	106										
LCS 880-43695/3	Lab Control Sample	113	101										
LCSD 880-43117/35	Lab Control Sample Dup	98	117										
LCSD 880-43695/4	Lab Control Sample Dup	104	105										
MB 880-43114/5-A	Method Blank	97	107										
MB 880-43117/39	Method Blank	100	106										
MB 880-43695/8	Method Blank	67 S1-	93										

Surrogate Legend

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

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43114/5-A
Matrix: Water
Analysis Batch: 43117

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 43114

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		01/04/23 08:41	01/04/23 12:40	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		01/04/23 08:41	01/04/23 12:40	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		01/04/23 08:41	01/04/23 12:40	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		01/04/23 08:41	01/04/23 12:40	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		01/04/23 08:41	01/04/23 12:40	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		01/04/23 08:41	01/04/23 12:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*01/04/23 08:41*	*01/04/23 12:40*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*01/04/23 08:41*	*01/04/23 12:40*	*1*

Lab Sample ID: MB 880-43117/39
Matrix: Water
Analysis Batch: 43117

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			01/05/23 00:14	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/05/23 00:14	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			01/05/23 00:14	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/05/23 00:14	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/05/23 00:14	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/05/23 00:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/05/23 00:14*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*01/05/23 00:14*	*1*

Lab Sample ID: LCS 880-43117/34
Matrix: Water
Analysis Batch: 43117

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	0.1009		mg/L		101	70 - 130
Toluene	0.100	0.09587		mg/L		96	70 - 130
Ethylbenzene	0.100	0.09356		mg/L		94	70 - 130
m-Xylene & p-Xylene	0.200	0.1953		mg/L		98	70 - 130
o-Xylene	0.100	0.09310		mg/L		93	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-43117/35
Matrix: Water
Analysis Batch: 43117

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	0.1000		mg/L		100	70 - 130	1	20

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QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

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

Lab Sample ID: LCSD 880-43117/35
Matrix: Water
Analysis Batch: 43117

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	0.09771		mg/L		98	70 - 130	2	20
Ethylbenzene			0.100	0.09514		mg/L		95	70 - 130	2	20
m-Xylene & p-Xylene			0.200	0.1972		mg/L		99	70 - 130	1	20
o-Xylene			0.100	0.09631		mg/L		96	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*

Lab Sample ID: 880-23097-A-1 MS
Matrix: Water
Analysis Batch: 43117

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	0.000741	J	0.100	0.08922		mg/L		88	70 - 130
Toluene	<0.000367	U	0.100	0.08748		mg/L		87	70 - 130
Ethylbenzene	<0.000657	U	0.100	0.08794		mg/L		88	70 - 130
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1817		mg/L		91	70 - 130
o-Xylene	<0.000642	U	0.100	0.08951		mg/L		90	70 - 130

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

Lab Sample ID: 880-23097-A-1 MSD
Matrix: Water
Analysis Batch: 43117

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	0.000741	J	0.100	0.08924		mg/L		89	70 - 130	0	25
Toluene	<0.000367	U	0.100	0.08765		mg/L		88	70 - 130	0	25
Ethylbenzene	<0.000657	U	0.100	0.08760		mg/L		88	70 - 130	0	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1811		mg/L		91	70 - 130	0	25
o-Xylene	<0.000642	U	0.100	0.08835		mg/L		88	70 - 130	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 880-43695/8
Matrix: Water
Analysis Batch: 43695

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			01/11/23 11:49	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			01/11/23 11:49	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			01/11/23 11:49	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			01/11/23 11:49	1

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

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

Lab Sample ID: MB 880-43695/8
Matrix: Water
Analysis Batch: 43695

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			01/11/23 11:49	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			01/11/23 11:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*		*01/11/23 11:49*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*01/11/23 11:49*	*1*

Lab Sample ID: LCS 880-43695/3
Matrix: Water
Analysis Batch: 43695

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	0.1148		mg/L		115	70 - 130
Toluene	0.100	0.1127		mg/L		113	70 - 130
Ethylbenzene	0.100	0.1050		mg/L		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2208		mg/L		110	70 - 130
o-Xylene	0.100	0.1123		mg/L		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-43695/4
Matrix: Water
Analysis Batch: 43695

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	0.1127		mg/L		113	70 - 130	2	20
Toluene	0.100	0.1061		mg/L		106	70 - 130	6	20
Ethylbenzene	0.100	0.1028		mg/L		103	70 - 130	2	20
m-Xylene & p-Xylene	0.200	0.2094		mg/L		105	70 - 130	5	20
o-Xylene	0.100	0.1046		mg/L		105	70 - 130	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-23189-2 MS
Matrix: Water
Analysis Batch: 43695

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.613		2.00	2.601		mg/L		99	70 - 130
Toluene	0.0120	J	2.00	2.023		mg/L		101	70 - 130
Ethylbenzene	0.283		2.00	2.157		mg/L		94	70 - 130
m-Xylene & p-Xylene	0.0464	J	4.00	4.033		mg/L		100	70 - 130
o-Xylene	0.0204	J	2.00	2.037		mg/L		101	70 - 130

QC Sample Results

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

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

Lab Sample ID: 880-23189-2 MS
Matrix: Water
Analysis Batch: 43695

Client Sample ID: MW-21
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

Lab Sample ID: 880-23189-2 MSD
Matrix: Water
Analysis Batch: 43695

Client Sample ID: MW-21
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.613		2.00	2.930		mg/L		116	70 - 130	12	25
Toluene	0.0120	J	2.00	2.116		mg/L		105	70 - 130	5	25
Ethylbenzene	0.283		2.00	2.167		mg/L		94	70 - 130	0	25
m-Xylene & p-Xylene	0.0464	J	4.00	4.053		mg/L		100	70 - 130	0	25
o-Xylene	0.0204	J	2.00	2.051		mg/L		102	70 - 130	1	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

QC Association Summary

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

GC VOA

Prep Batch: 43114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-43114/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 43117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23189-1	MW-25	Total/NA	Water	8021B	
880-23189-2	MW-21	Total/NA	Water	8021B	
880-23189-3	MW-24	Total/NA	Water	8021B	
880-23189-4	MW-31	Total/NA	Water	8021B	
880-23189-5	MW-32	Total/NA	Water	8021B	
880-23189-6	MW-22	Total/NA	Water	8021B	
MB 880-43114/5-A	Method Blank	Total/NA	Water	8021B	43114
MB 880-43117/39	Method Blank	Total/NA	Water	8021B	
LCS 880-43117/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-43117/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-23097-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
880-23097-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 43225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23189-1	MW-25	Total/NA	Water	Total BTEX	
880-23189-2	MW-21	Total/NA	Water	Total BTEX	
880-23189-3	MW-24	Total/NA	Water	Total BTEX	
880-23189-4	MW-31	Total/NA	Water	Total BTEX	
880-23189-5	MW-32	Total/NA	Water	Total BTEX	
880-23189-6	MW-22	Total/NA	Water	Total BTEX	

Analysis Batch: 43695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-23189-2	MW-21	Total/NA	Water	8021B	
MB 880-43695/8	Method Blank	Total/NA	Water	8021B	
LCS 880-43695/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-43695/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-23189-2 MS	MW-21	Total/NA	Water	8021B	
880-23189-2 MSD	MW-21	Total/NA	Water	8021B	

Lab Chronicle

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

Client Sample ID: MW-25
Date Collected: 12/29/22 09:15
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23189-1
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	43117	01/05/23 03:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43225	01/05/23 10:15	AJ	EET MID

Client Sample ID: MW-21
Date Collected: 12/29/22 10:40
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23189-2
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	43117	01/05/23 03:26	MNR	EET MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	43695	01/11/23 12:16	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43225	01/05/23 10:15	AJ	EET MID

Client Sample ID: MW-24
Date Collected: 12/29/22 12:20
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23189-3
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	43117	01/05/23 03:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43225	01/05/23 10:15	AJ	EET MID

Client Sample ID: MW-31
Date Collected: 12/29/22 09:30
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23189-4
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	43117	01/05/23 05:37	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43225	01/05/23 10:15	AJ	EET MID

Client Sample ID: MW-32
Date Collected: 12/29/22 10:00
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23189-5
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	43117	01/05/23 05:57	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43225	01/05/23 10:15	AJ	EET MID

Client Sample ID: MW-22
Date Collected: 12/29/22 10:14
Date Received: 12/29/22 16:11

Lab Sample ID: 880-23189-6
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	43117	01/05/23 06:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43225	01/05/23 10:15	AJ	EET MID

Lab Chronicle

Client: Talon/LPE
Project/Site: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

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: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
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: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
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: Hobbs Junction Mainline (HJM)

Job ID: 880-23189-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-23189-1	MW-25	Water	12/29/22 09:15	12/29/22 16:11
880-23189-2	MW-21	Water	12/29/22 10:40	12/29/22 16:11
880-23189-3	MW-24	Water	12/29/22 12:20	12/29/22 16:11
880-23189-4	MW-31	Water	12/29/22 09:30	12/29/22 16:11
880-23189-5	MW-32	Water	12/29/22 10:00	12/29/22 16:11
880-23189-6	MW-22	Water	12/29/22 10:14	12/29/22 16:11

1 2 3 4 5 6 7 8 9 10 11 12 13 14

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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

880-23189 Chain of Custody

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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# 2003-00017
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	Hobbs Junction Mainline (HJM)	Turn Around	
Project Number		☑ Routine	☐ Rush
Project Location	Lea, County	Due Date	
Sampler's Name	M.Gomez, N. Rose, K.Taylor	TAT starts the day received by the lab if received by 4 30pm	
PO #:	SRS# 2003-00017		

SAMPLE RECEIPT

Temp Blank.	Yes (No)	Wet Ice	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID	1R8	
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-0.3	
Sample Custody Seals	Yes No (N/A)	Temperature Reading	2.3	
Total Containers:		Corrected Temperature	2.0	

ANALYSIS REQUEST — Parameters; Pres. Code

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BTEX 8021B
MW-25	GW	12/29/22	9:15	N/A		3	X
MW-21	|	|	10:40	|		|	|
MW-24	|	|	12:20	|		|	|
MW-31	|	|	9:30	|		|	|
MW-32	|	|	10:00	|		|	|
MW-22	|	|	10:19	|		|	|

Preservative Codes

None NO — DI Water H_2O
Cool Cool — MeOH Me
HCL HC — HNO_3 HN
H_2SO_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 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	[signature]	[signature]	12/29/22 1611	2			
3				4			
5				6			

Revised Date 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 880-23189-1
SDG Number: Lea County

Login Number: 23189
List Number: 1
Creator: Kramer, Jessica

List Source: Eurofins Midland

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	

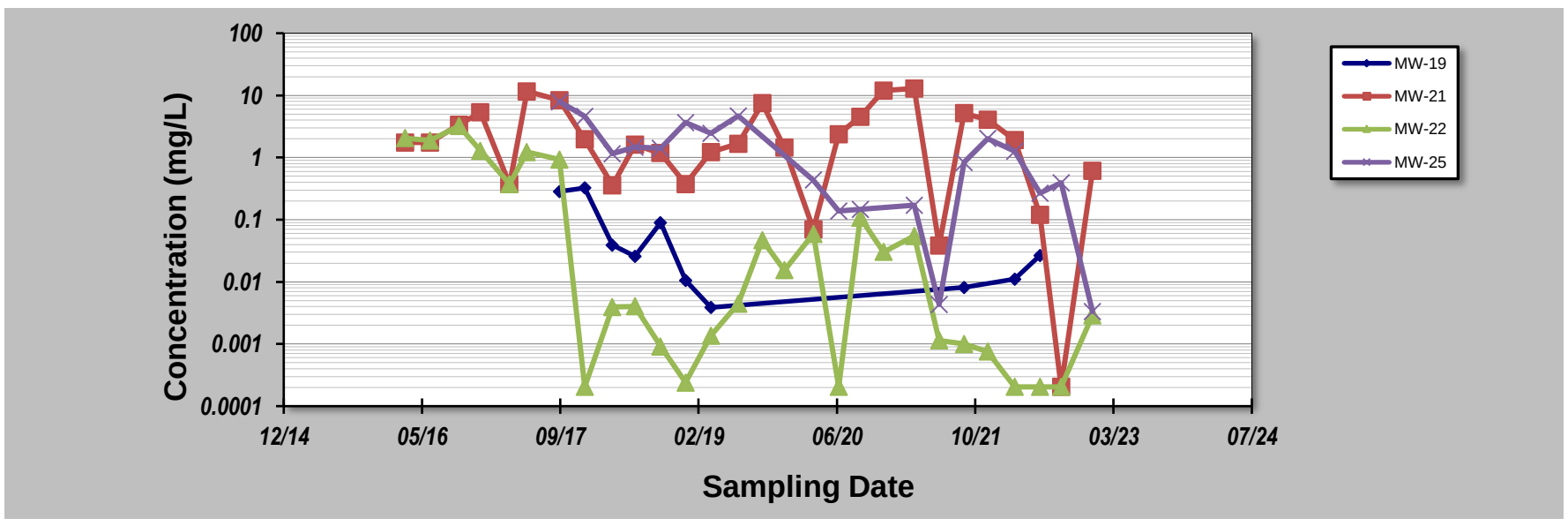
APPENDIX D

Mann-Kendall Analysis

GSI MANN-KENDALL TOOLKIT
for Constituent Trend Analysis

Evaluation Date:	27-Feb-23	Job ID:	700376.052
Facility Name:	Hobbs Junction Mainline	Constituent:	Benzene
Conducted By:	Paul Santos	Concentration Units:	mg/L

Sampling Point ID:	MW-19	MW-21	MW-22	MW-25			
Sampling Event	Sampling Date	BENZENE CONCENTRATION (mg/L)						
1	9-Mar-16		1.75	2.05				
2	8-Jun-16		1.74	1.88				
3	21-Sep-16		3.38	3.20				
4	7-Dec-16		5.32	1.28				
5	22-Mar-17		0.371	0.373				
6	24-May-17		11.6	1.23				
7	19-Sep-17	0.283	8.34	0.928	7.91			
8	19-Dec-17	0.324	1.96	0.000204	4.59			
9	29-Mar-18	0.0389	0.358	0.00392	1.15			
10	19-Jun-18	0.0258	1.6	0.00404	1.48			
11	19-Sep-18	0.0897	1.18	0.000910	1.40			
12	19-Dec-18	0.0106	0.374	0.000240	3.64			
13	20-Mar-19	0.00387	1.22	0.00136	2.45			
14	27-Jun-19		1.67	0.00447	4.67			
15	23-Sep-19		7.46	0.0471				
16	11-Dec-19		1.45	0.0154				
17	25-Mar-20		0.0699	0.0592	0.434			
18	24-Jun-20		2.38	0.000204	0.137			
19	11-Sep-20		4.55	0.108	0.146			
20	3-Dec-20		11.9	0.0302				
21	25-Mar-21		12.9	0.0545	0.170			
22	22-Jun-21		0.0383	0.00114	0.00431			
23	21-Sep-21	0.00810	5.17	0.00100	0.833			
24	15-Dec-21		4.06	0.000754	2.02			
25	23-Mar-22	0.011	1.91	0.000204	1.26			
26	22-Jun-22	0.0266	0.119	0.000204	0.268			
27	7-Sep-22		0.000204	0.000204	0.392			
28	29-Dec-22		0.613	0.00291	0.00333			
29								
30								
Coefficient of Variation:		1.46	1.14	2.01	1.21			
Mann-Kendall Statistic (S):		-21	-42	-180	-77			
Confidence Factor:		96.4%	78.9%	>99.9%	99.7%			
Concentration Trend:		Decreasing	No Trend	Decreasing	Decreasing			



Notes:

1. At least four independent sampling events per well are required for calculating the trend. *Methodology is valid for 4 to 40 samples.*
2. Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
3. Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, *Ground Water* , 41(3):355-367, 2003.

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1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
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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 202765

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	34053
	Action Number: 202765
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Content Satisfactory, but was missing content 1. Continue to Monitor groundwater wells for COCs per this report. 2. Include section for recommendations (4.2) (Missing Information in report) 3. Submit 2023 Annual Report by April 1, 2024.	6/6/2023