Review of 2021 ANNUAL GROUNDWATER MONITORING REPORT: Content satisfactory

Contractor recommendations approved by NMOCD and are as follows;

- 1. Continue monthly MDPE events
- 2. Perform quarterly groundwater monitoring events in accordance with NMOCD directives
- 3. Submit annual report to NMOCD no later than March 31,2023.

REVIEWED

By Nelson Velez at 8:23 am, Jul 19, 2022







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2021 ANNUAL GROUNDWATER MONITORING REPORT

LOVINGTON DEEP 6"
LEA COUNTY, NEW MEXICO
SRS #2002—10312
NMOCD REF. # AP-037, nAPP2109530339

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

PREPARED BY: COLIN TABBERT, G.I.T. TALON/LPE 408 TEXAS AVENUE ARTESIA, NEW MEXICO 88210

FEBRUARY 21, 2022



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TALON/LPE PROJECT NO. 700376.051.54

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FEBRUARY 21, 2022



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NMOCD - New Mexico Oil Conservation Division

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1.0 INTRODUCTION AND OBJECTIVES

1.1 Site Background

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

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

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

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

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

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

1.2 Site Geology

The surficial deposits in Lea County are composed of Blackwater Draw (Illinoian) sediments, Ogallala sediments and undivided Quaternary alluvium, which is also termed 'cover sands'. The soil in the upper two (2) feet at the site is composed of gravelly loam that contains abundant eroded gravel to cobble size caliche fragments. Below the 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, Ogallala sediments were deposited by fluvial mechanism as paleovalley fill, which is composed of gravelly to sandy braided stream deposits that trend west to east across the Southern High Plains. During the late Miocene, the west to east drainage was diverted (captured) by the Pecos River. Subsequently, the Pecos River basin has experienced deflation, which facilitated eolian deposition on the Southern High Plains during the Pliocene.

1.3 Previous Environmental Investigations

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

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

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

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

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

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

Currently, there are two (2) air sparge bubblers operating in monitoring wells MW-18 and MW-19. In 2021, MDPE events recovered an estimated total of 66.72 bbls of PSH consisting of 14.02 bbls of liquid and 52.70 bbls of vapor phase PSH. To date, approximately 476.67 bbls of PSH have been recovered during the described remediation efforts.

1.4 Regulatory Framework

Groundwater analytical data collected from the Deep 6" site is evaluated to the NMWQCC groundwater standards outlined 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							

The subsequent sections of this report provide summaries of the groundwater monitoring activities that were conducted at the subject site during the year 2021 as well as analytical results from each groundwater sampling event. Cumulative analytical results for the four (4) 2021 sampling events are summarized in Table 2, in Appendix B, and Figures 1, 2a through 2d, and 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C.

2.0 SITE ACTIVITIES

The sections that follow summarize groundwater monitoring and PSH recovery activities conducted at the subject site during 2021. The primary function of groundwater monitoring is to measure the depths to fluids and to collect groundwater samples from monitor wells 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 groundwater remediation system as to inhibiting plume migration, reducing the volume of PSH impacting the groundwater and determining if modifications to the remediation system would improve its performance and efficiency.

2.1 Groundwater Monitoring Activities

A total of four (4) groundwater monitoring events were conducted by Talon during the year 2021 on March 16, 18-19, 29, June 10-11, September 1 and 7, and November 29-30.

During the March 2021 event, groundwater samples were collected from thirteen (13) monitor wells: MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20. Groundwater samples were not collected from three (3) monitor wells due to the wells being dry (MW-2, MW-6, and MW-10), one (1) well (MW-7) was purged dry without recovery, and three (3) wells (MW-13, MW-14, and MW-17) were impacted by PSH. Details of the gauging, purging, and sampling activities are presented below in Section 2.2.

During the June 2021 event, groundwater samples were collected from thirteen (13) monitor wells: MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20. Groundwater samples were not collected from two (2) monitor wells due to the wells being dry (MW-6 and MW-10), one (1) well (MW-7) was purged dry without recovery, and four (4) wells were impacted by PSH (MW-2, MW-13, MW-14, and MW-17). Details of the gauging, purging, and sampling activities are presented below in Section 2.2.

During the September 2021 event, groundwater samples were collected from thirteen (13) monitor wells: MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20. Groundwater samples were not collected from two (2) monitor wells due to the wells being dry (MW-6 and MW-10), one (1) well (MW-7) was purged dry without recovery, and four (4) wells were impacted by PSH (MW-2, MW-13, MW-14, and MW-17). Details of the gauging, purging, and sampling activities are presented below in Section 2.2.

During the November 2021 event, groundwater samples were collected from thirteen (13) monitor wells: MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20. Groundwater samples were not collected from two (2) monitor wells due to the wells being dry (MW-6 and MW-10), one (1) well (MW-7) was purged dry without recovery, and four (4) wells were impacted by PSH (MW-2, MW-13, MW-14, and MW-17). Details of the gauging, purging, and sampling activities are presented below in Section 2.2.

2.2 Groundwater Gauging, Purging, and Sample Collection Procedures

During each groundwater monitoring event, all monitor wells were measured with an oil/water interface probe to determine static water levels and to determine the thickness of PSH accumulations, if present. The data collected from these measurements was used to construct groundwater gradient maps and PSH thickness isopleth maps. The results of the measured depths to fluids collected during the four (4) events are incorporated in Table 1 – Summary of Historical Fluid Level Measurements.

Subsequent to gauging, all monitor wells were purged using a down-hole pump equipped with vinyl tubing. The pump and tubing were decontaminated with Alconox® detergent and rinsed with distilled water after each use. Recovered purge water and water used in the decontamination process was contained in 55-gallon drums. After the groundwater monitoring event, all retained water was placed into the on-site storage tank and removed with a vacuum truck for disposal at Gandy Marley, a NMOCD approved facility.

Groundwater samples were collected from all monitor wells using dedicated disposable polyethylene bailers. Each groundwater sample was contained in laboratory supplied sample containers with the appropriate preservative required for the analysis requested. The groundwater samples were maintained on ice, in the custody of Talon personnel, until they were delivered to Xenco Laboratory in Carlsbad, New Mexico, for analysis. The groundwater samples collected during all four (4) events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B.

2.3 Phase Separated Hydrocarbon Recovery

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

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

During 2021, the quarterly MDPE PSH and groundwater recovery totals are as follows:

- 1st Quarter 10.72 bbls PSH and 88.29 bbls of groundwater
- 2nd Quarter 16.25 bbls PSH and 95.50 bbls of groundwater
- 3rd Quarter 19.70 bbls PSH and 77.17 bbls of groundwater

• 4th Quarter – 19.99 bbls PSH and 70.12 bbls groundwater

The MDPE individual event recovery totals are as follows:

- January 27, 2021 2.12 bbls vapor PSH, 0.93 bbls liquid PSH
- February 24, 2021–1.14 bbls vapor PSH, 0.90 bbls liquid PSH
- March 23, 2021 4.51 bbls vapor PSH, 1.12 bbls liquid PSH
- April 6, 2021 1.92 bbls vapor PSH, 1.76 bbls liquid PSH
- May 17, 2021 4.18 bbls vapor PSH, 0.55 bbls liquid PSH
- June 15, 2021 6.34 bbls vapor PSH, 1.50 bbls liquid PSH
- July 8, 2021 5.03 bbls vapor PSH, 1.12 bbls liquid PSH
- August 5, 2021 5.27 bbls vapor PSH, 1.21 bbls liquid PSH
- September 2, 2021 4.55 bbls vapor PSH, 2.52 bbls liquid PSH
- October 7, 2021 7.58 bbls vapor PSH, 0.74 bbls liquid PSH
- November 23, 2021 4.89 bbls vapor PSH, 0.86 bbls liquid PSH
- December 9, 2021 5.18 bbls vapor PSH, 0.74 bbls liquid PSH

In 2021, an estimated total of 66.72 bbls of PSH were recovered during the MDPE events. Approximately 476.67 bbls of PSH consisting of 222.53 bbls of vapor phase and 254.14 bbls of liquid phase PSH have been recovered from the site to date.

3.0 GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 – Summary of Historical Groundwater Analytical Data in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C. The following sections present the results from the monitoring of the first water-bearing zone underlying the site.

3.1 Physical Characteristics of the First Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, 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 six (6) counties in New Mexico.

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

The Ogallala Aquifer is generally unconfined and the potentiometric surface mimics the topography with 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 ranged from 60 to 65 feet below ground surface (bgs) and the groundwater flow direction is to the east. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet. The variable thickness is due to the irregularly eroded Triassic surface that underlies it.

The composition of Ogallala groundwater is defined as mixed-cation-HCO₃, 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

The depth to fluid measurements were collected during each of the four (4) groundwater monitoring events during the year 2021. The results of the fluid level measurements are summarized in Table 1, Appendix B - Summary of Historical Fluid Level Measurements. The collected data was used to construct potentiometric surface maps in order to interpret the groundwater gradient and flow direction. The maps, designated Figures 2a through 2d, are presented in Appendix A.

The potentiometric surface maps constructed for each of the four (4) groundwater monitoring events indicates that the groundwater flow direction is to the east at an approximate gradient of average 0.0036 feet/foot or approximately 19.01 feet/mile. Groundwater levels at the subject site have declined slightly, approximately 0.18 feet for the year 2021.

3.3 Phase Separated Hydrocarbon (PSH)

An oil/water interface probe was used to determine the thicknesses of PSH during the four (4) groundwater monitoring events. Generally, PSH thicknesses have fluctuated slightly from quarter to quarter during the year 2021.

In addition to potentiometric surface maps, isopleth maps were prepared depicting the measured PSH thicknesses and PSH plume geometry. PSH plume delineation and thickness isopleth maps are presented in Appendix A as Figures 3a through 3d. The PSH plume is delineated by the current monitor well geometry.

- In March 2021, PSH was observed in three (3) monitor wells: MW-13, MW-14, and MW-17. PSH thickness ranged from 0.02 feet to 2.41 feet.
- In June 2021, PSH was observed in four (4) monitor wells: MW-2, MW-13, MW-14, and MW-17. PSH thickness ranged from 0.02 feet to 3.81 feet.
- In September 2021, PSH was observed in four (4) monitor wells: MW-2, MW-13, MW-14, and MW-17. PSH thickness ranged from 0.01 feet to 3.84 feet.
- In November 2021, PSH was observed in four (4) monitor wells MW-2, MW-13, MW-14, and MW-17. PSH thickness ranged from 0.03 feet to 1.65 feet.

3.4 Groundwater Analytical Results

During the March 2021 sampling event, groundwater samples were collected from thirteen (13) monitor wells (MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 though MW-20). Groundwater samples were not collected from three (3) monitor wells due to PSH (MW-13, MW-14, and MW-17) and three (3) wells were gauged dry (MW-2, MW-6, and MW-10). Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than the laboratory method detection limit (MDL) in wells MW-1, MW-4, MW-5, MW-8. MW-9, MW-11, MW-15, MW-16, and MW-20 to 0.0235 mg/L in MW-19. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-19.
- Toluene concentrations ranged from less than the laboratory MDL in wells MW-1, MW-4, MW-5, MW-8, MW-9, MW-11, MW-15, MW-16, MW-19, and MW-20 to 0.0236 mg/L in MW-18. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations ranged from less than the laboratory MDL in wells MW-1, MW-4, MW-5, MW-8, MW-9, MW-11, MW-15, and MW-18 through MW-20 to 0.0226 mg/L in MW-3. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.

Xylene concentrations ranged from less than the laboratory MDL in wells MW-1, MW-4, MW-5, MW-8, MW-9, MW-11, MW-15, and MW-18 through MW-20 to 0.00928 mg/L in MW-16. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

During the June 2021 sampling event, groundwater samples were collected from thirteen (13) monitor wells (MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20). Groundwater samples were not collected from four (4) monitor wells due to PSH (MW-2, MW-13, MW-14, and MW-17) and two (2) wells were gauged dry (MW-6 and MW-10). Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than the laboratory MDL in wells MW-1, MW-4, MW-5, MW-8, MW-9, MW-11, MW-15, MW-16, and MW-18 to 0.0958 mg/L in MW-19. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-19.
- Toluene concentrations ranged from less than the laboratory MDL in wells MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-15, MW-16, MW-19, and MW-20 to 0.0175 mg/L in MW-18. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations ranged from less than the laboratory MDL in wells MW-1, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-19, and MW-20 to 0.0838 mg/L in MW-3. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations ranged from less than the MDL in wells MW-1, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-18, and MW-20 to 0.107 mg/L in MW-3. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

During the September 2021 sampling event, groundwater samples were collected from thirteen (13) monitor wells MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20. Groundwater samples were not collected from four (4) monitor wells due to PSH (MW-2, MW-13, MW-14, and MW-17) and two (2) wells were gauged dry (MW-6 and MW-10). Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than the laboratory MDL in wells MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-15, MW-16, and MW-20 to 0.11 mg/L in MW-19. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-19.
- Toluene concentrations ranged from less than the laboratory MDL in wells MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-20 to 0.00218 mg/L in MW-18. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.

- Ethylbenzene concentrations ranged from less than the laboratory MDL in wells MW-1, MW-5, MW-8, MW-9, MW-11, MW-19, and MW-20 to 0.0561 mg/L in MW-3. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations ranged from less than the laboratory MDL in wells MW-1, MW-5, MW-8, MW-9, MW-11, MW-12, MW-16, and MW-18 through MW-20 to 0.0718 mg/L in MW-3. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

During the November 2021 sampling event, groundwater samples were collected from thirteen (13) monitor wells MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-18 through MW-20. Groundwater samples were not collected from four (4) monitor wells due to PSH (MW-2, MW-13, MW-14, and MW-17) and two (2) wells were gauged dry (MW-6 and MW-10). Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged less than the laboratory MDL in MW-1, MW-4, MW-5, MW-8, MW-9, MW-11, MW-15, MW-16, and MW-20 to 0.00575 mg/L in MW-19.
 Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations were less than the laboratory MDL in monitor wells MW-1, MW-3 through MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, and MW-20 to 0.00527 mg/L in MW-18. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations ranged from less than the laboratory MDL in MW-1, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-16, MW-19, and MW-20 to 0.0339 mg/L in MW-3. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations ranged from less than the laboratory MDL in MW-1, MW-4, MW-5, MW-8, MW-9, MW-11, MW-12, MW-15, MW-16, MW-19, and MW-20 to 0.0448 mg/L in MW-18. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

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

4.0 CONCLUSIONS AND RECOMMENDATIONS

The following section presents a summary of the four (4) groundwater monitoring events conducted at the Lovington Deep 6" site and Section 4.2 provides recommendations for future corrective action.

4.1 Summary of Findings

- The groundwater flow direction is to the east with an average gradient of average 0.0036 feet/foot based on the water level measurement data collected in 2021.
- Groundwater levels at the subject site have decreased slightly for the year 2021.
- PSH has impacted monitor wells MW-2, MW-13, MW-14, and MW-17 in 2021. The PSH plume is well defined.
- Approximately 66.72 bbls of PSH were recovered during the year 2021.
- The benzene concentration in MW-19 exceeded the NMWQCC groundwater standard of 0.0100 mg/L in the 1st, 2nd, and 3rd Quarter sampling events. In the 4th Quarter sampling event, no monitor wells sampled exceeded the NMWQCC groundwater standard for benzene of 0.0100 mg/L.
- NMOCD has approved discontinuation of PAH analysis from MW-4, MW-10, MW-12, MW-18, MW-19 and MW-20.

4.2 Recommendations

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

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

APPENDIX A

Figures

Figure 1	- Site	Plan
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Figure 2a - Groundwater Gradient Map - 03/16/2021

Figure 2b - Groundwater Gradient Map - 06/10/2021

Figure 2c - Groundwater Gradient Map - 09/01/2021

Figure 2d - Groundwater Gradient Map - 11/29/2021

Figure 3a - PSH Thickness & Groundwater Concentration Map - 03/18-19, 29/2021

Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/11/2021

Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/07/2021

Figure 3d - PSH Thickness & Groundwater Concentration Map – 11/29-30/2021



TALON LPE Released to Imaging: 8/2/2022 2:57:54 PM

1 in = 80 ft

Drafted By: JAI

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

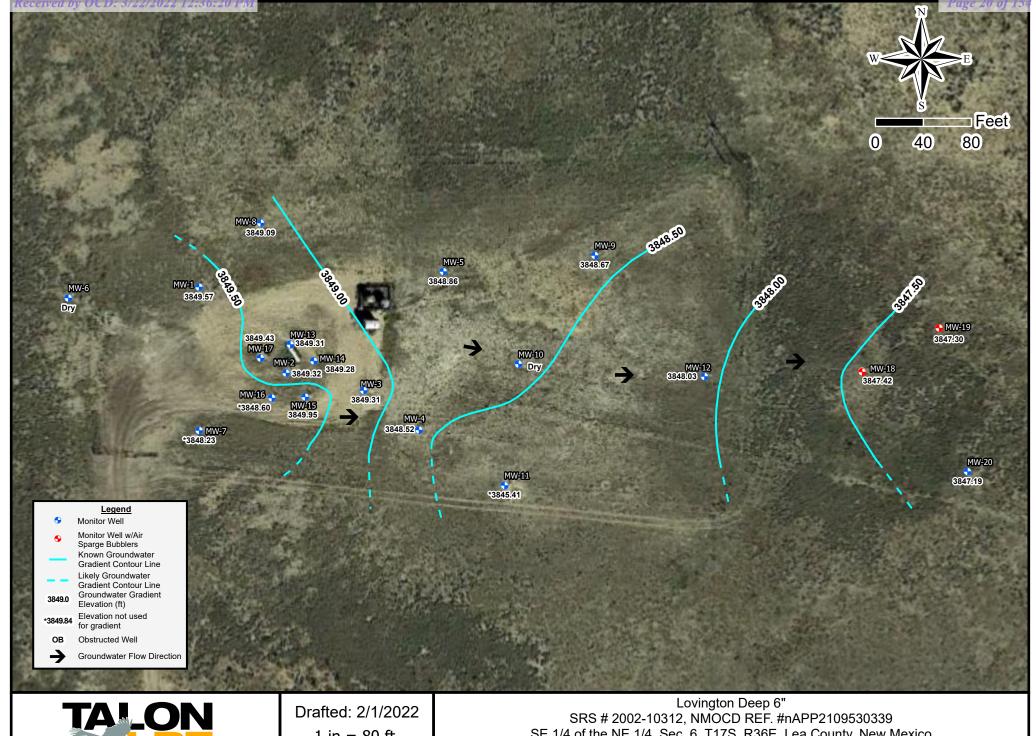




Drafted By: JAI

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico 32.867039, -103.387542

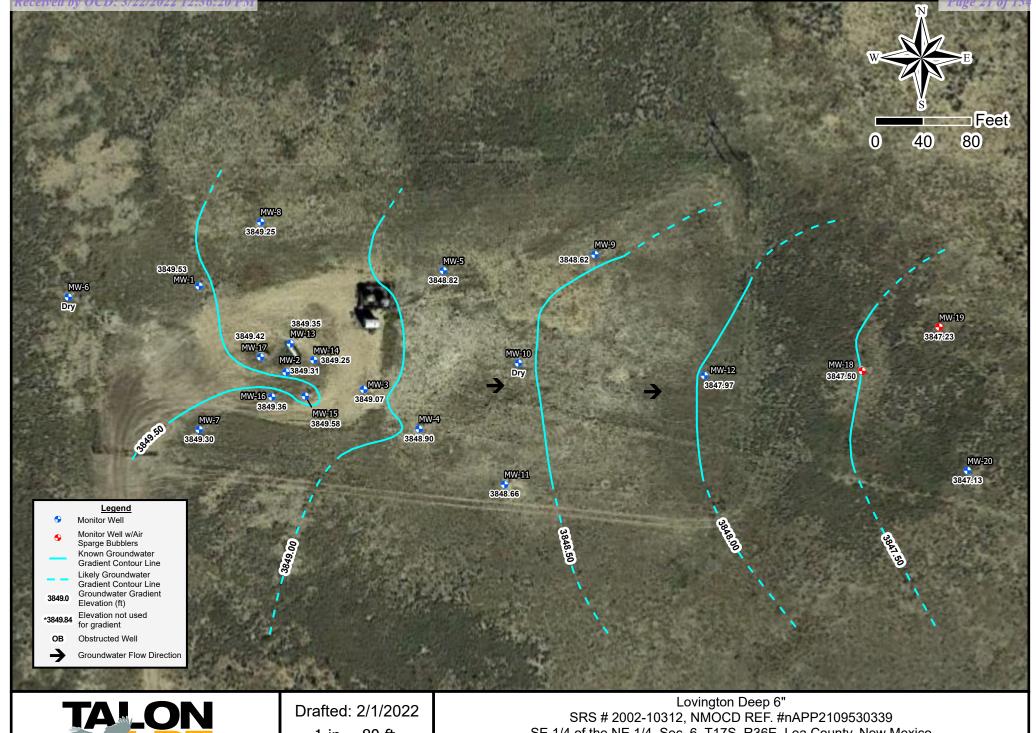
Figure 2a - Groundwater Gradient Map (03/16/2021)





Drafted By: IJM

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico 32.867039, -103.387542 Figure 2b - Groundwater Gradient Map (06/10/2021)

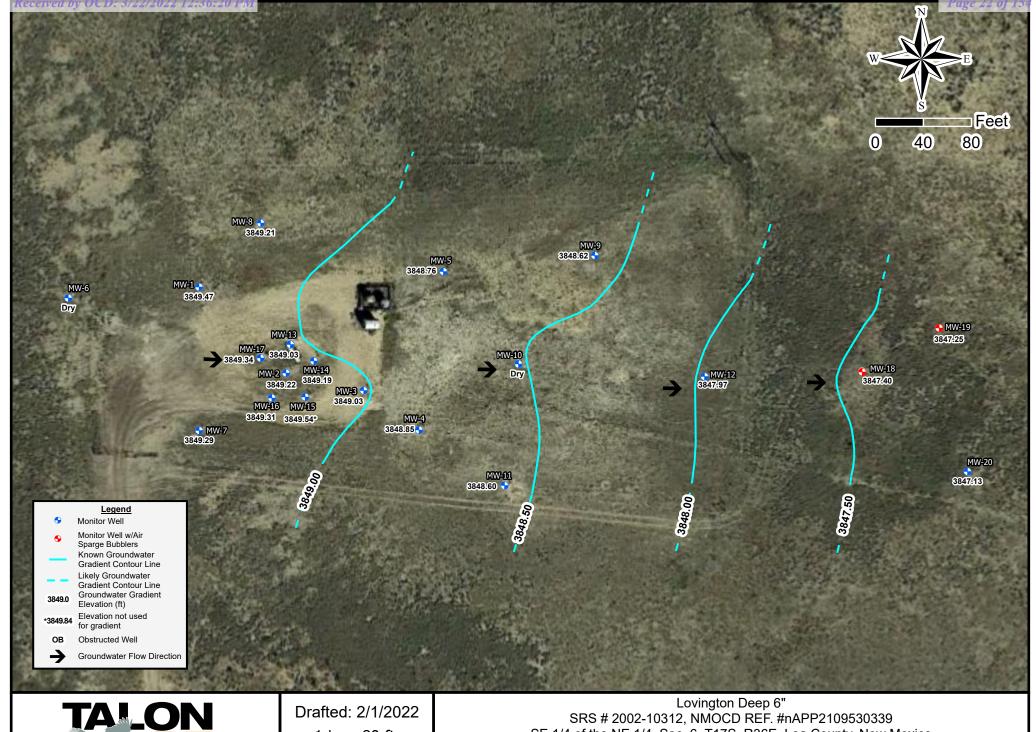




Drafted By: IJM

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico 32.867039, -103.387542

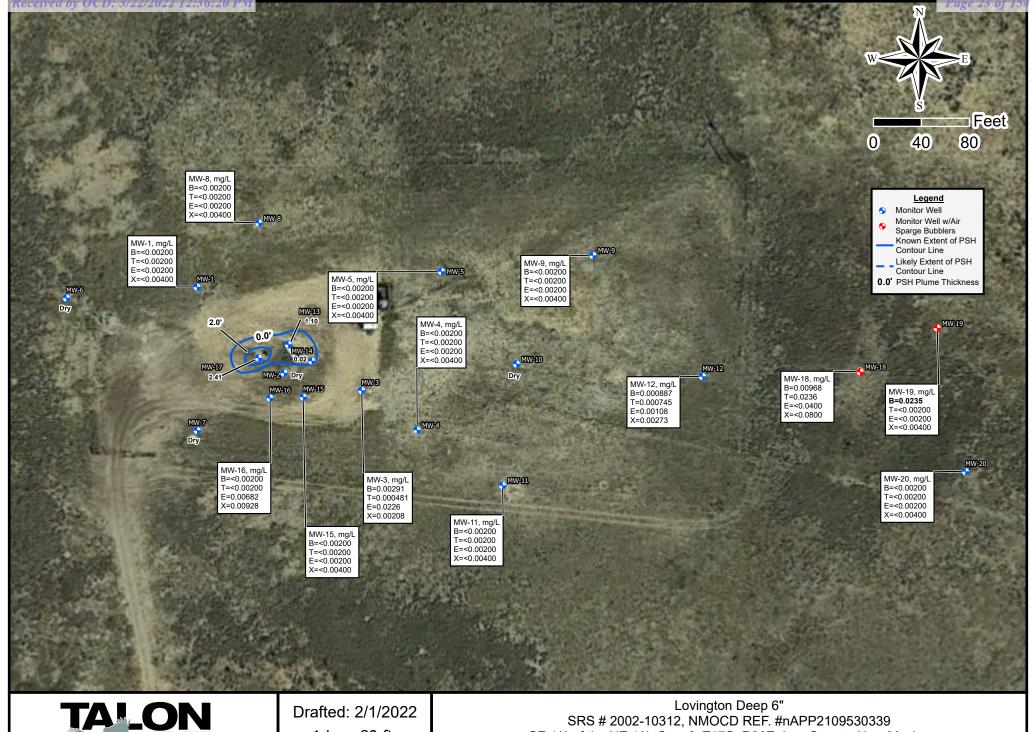
Figure 2c - Groundwater Gradient Map (09/01/2021)





Drafted By: IJR

SRS # 2002-10312, NMOCD REF. #nAPP2109530339
SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico 32.867039, -103.387542
Figure 2d - Groundwater Gradient Map (11/29/2021)



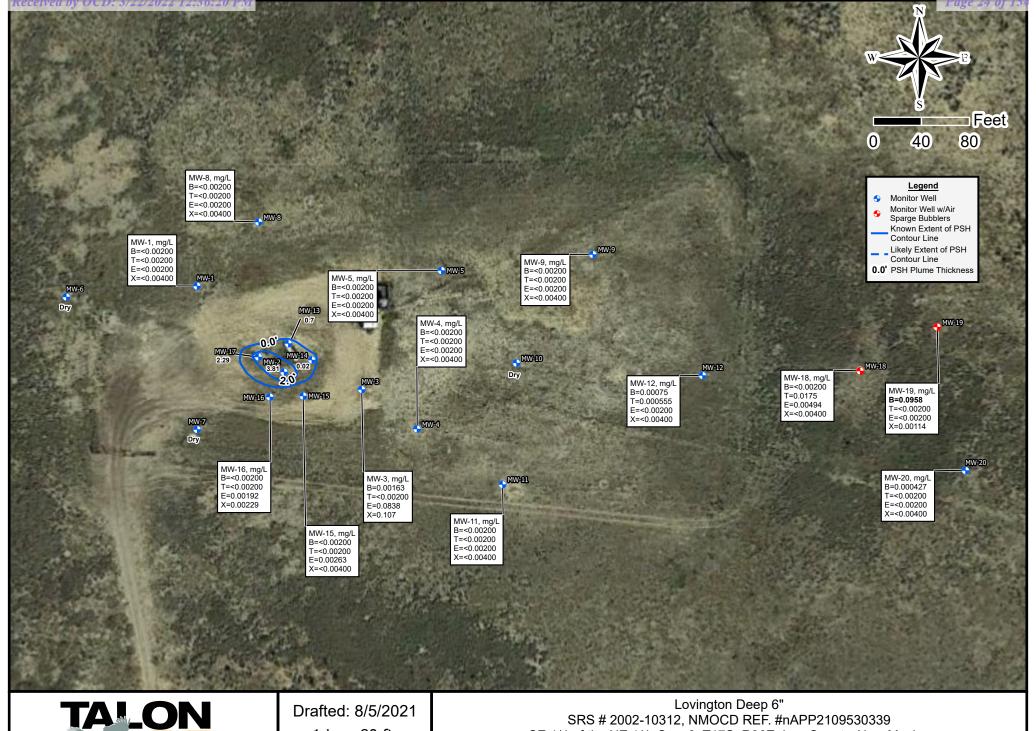
Released to Imaging 8/2/2022 2.57.54 PM

1 in = 80 ft

Drafted By: JAI

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico 32.867039, -103.387542

Figure 3a - PSH Thickness and Groundwater Concentration Map to 03/18-19, 29/2021



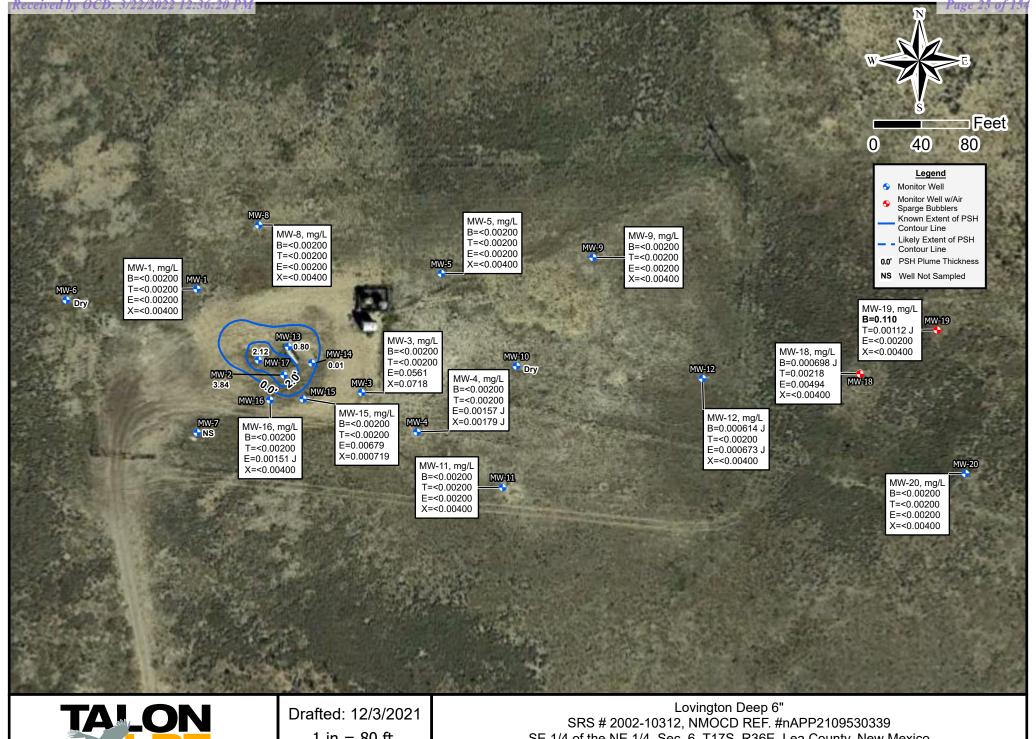
Released to Imaging 8/2/2022 2.57.54 PM

1 in = 80 ft

Drafted By: IJM

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico 32.867039, -103.387542

Figure 3b - PSH Thickness and Groundwater Concentration Map (06/11/2021)



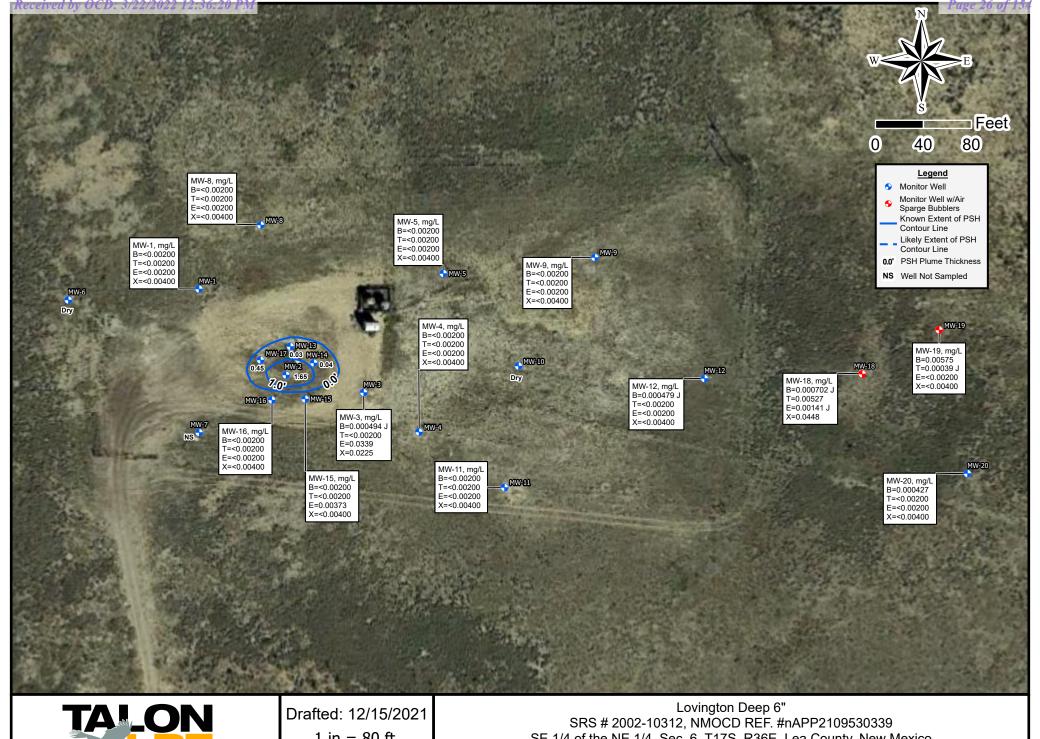
Released to Imaging 8/2/2022 2.57.54 PM

1 in = 80 ft

Drafted By: IJM

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico 32.867039, -103.387542

Figure 3c - PSH Thickness and Groundwater Concentration Map (09/07/2021)



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1 in = 80 ft

Drafted By: IJR

SE 1/4 of the NE 1/4, Sec. 6, T17S, R36E, Lea County, New Mexico 32.867039, -103.387542

Figure 3d - PSH Thickness and Groundwater Concentration Map (11/29-30/2021)

APPENDIX B

Tables

- Table 1 Summary of Historical Fluid Level Measurements
- Table 2 Summary of Historical Groundwater Analytical Results for BTEX
- Table 3 Summary of Groundwater Analytical Results for PAH

Table 1 - Gauging and NAPL Thickness - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Date Sampled	Depth to Water	Depth to Product	Product Thickness	Groundwat Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
ЛW-1	3915.51	54	74	03/08/2016	64.98	-	-	3850.53
4"				05/24/2016	65.02	-	-	3850.49
				09/08/2016	65.06	-	-	3850.45
				12/05/2016	64.76	-	-	3850.75
				03/08/2017	64.80	-	-	3850.71
				06/13/2017	65.21	-	-	3850.30
				09/12/2017	65.22	-	-	3850.29
				12/13/2017	65.28	-	-	3850.23
				03/23/2018	65.33	-	-	3850.18
				06/12/2018	65.38	-	-	3850.13
				09/10/2018	65.34	-	-	3850.17
				12/11/2018	65.49	-	-	3850.02
				03/13/2019	65.54	-	-	3849.97
				06/10/2019	64.59	-	-	3850.92
				09/25/2019	65.83	-	-	3849.68
				12/06/2019	65.65	-	-	3849.86
				03/11/2020	65.73	-	-	3849.78
				05/06/2020 06/09/2020	65.70 65.77	-	-	3849.81 3849.74
				09/04/2020	65.83	-	-	3849.68
				12/11/2020	65.84	-	-	3849.67
				03/16/2021	65.85		-	3849.66
				06/11/2021	65.94	-	-	3849.57
				09/01/2021	65.98	-	-	3849.53
				11/29/2021	66.04	-	-	3849.47
/W-2	3915.04	54	74	03/08/2016	68.80	63.91	4.89	3850.32
4"	3913.04	34	74	05/24/2016	68.57	64.00	4.57	3850.29
7				09/08/2016	68.32	64.08	4.24	3850.26
				12/01/2016	68.67	64.10	4.57	3850.19
				03/08/2017	68.33	64.20	4.13	3850.16
				06/13/2017	68.42	64.20	4.22	3850.14
				09/12/2017	68.30	64.30	4.00	3850.08
				12/13/2017	68.00	64.40	3.60	3850.05
				03/23/2018	65.22	65.05	0.17	3849.96
				06/12/2018	67.10	64.50	2.60	3850.11
				09/10/2018	66.52	64.50	2.02	3850.21
				12/11/2018	68.28	64.60	3.68	3849.83
				03/13/2019	66.82	65.12	1.70	3849.64
				06/10/2019	DR	-	-	-
				12/06/2019	DR	-	-	-
				03/11/2020	65.79	65.40	0.39	3849.58
				05/06/2020	66.92	65.20	1.72	3849.56
				06/09/2020	DR	-	-	-
				09/04/2020	67.75	65.10	2.65	3849.50
				12/11/2020	65.73	65.65	0.08	3849.38
				03/16/2021	DR	-	-	
				06/11/2021	68.90	65.09	3.81	3849.32
				09/01/2021	68.94	65.10	3.84	3849.31
				11/29/2021	67.20	65.55	1.65	3849.22
/W-3	3915.24	54	74	03/08/2016	65.16	-	-	3850.08
4"				05/24/2016	65.21	-	-	3850.03
				09/08/2016	65.25	-	-	3849.99
				12/05/2016	65.27	-	-	3849.97
				03/08/2017	65.33	-	-	3849.91
				06/13/2017	65.39	-	-	3849.85
				09/12/2017	65.44	-	-	3849.80
				12/13/2017	65.70	-	-	3849.54
				03/23/2018	65.50	-	-	3849.74
				06/12/2018	65.59	-	-	3849.65
				09/10/2018	65.52	-	-	3849.72
				12/11/2018	65.66		-	3849.58
				03/13/2019	65.69	-	-	3849.55
				06/10/2019	65.75	-	-	3849.49
			•	09/25/2019	65.80		-	3849.44
					CE OF			3849.39
				12/06/2019	65.85			
				12/06/2019 03/11/2020	65.89	-	-	3849.35
				12/06/2019 03/11/2020 06/09/2020	65.89 65.97	-	-	3849.35 3849.27
				12/06/2019 03/11/2020 06/09/2020 09/04/2020	65.89	- - -	- - -	3849.35 3849.27
				12/06/2019 03/11/2020 06/09/2020 09/04/2020 12/11/2020	65.89 65.97 65.97 66.04	-	-	3849.35 3849.27 3849.27 3849.20
				12/06/2019 03/11/2020 06/09/2020 09/04/2020 12/11/2020 03/16/2021	65.89 65.97 65.97 66.04 66.05	- - -	- - - -	3849.35 3849.27 3849.20 3849.19
				12/06/2019 03/11/2020 06/09/2020 09/04/2020 12/11/2020	65.89 65.97 65.97 66.04	-	-	3849.35 3849.27 3849.27 3849.20

Table 1 - Gauging and NAPL Thickness - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Date Sampled	Depth to Water	Depth to Product	Product Thickness	Groundwat Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-4	3915.3	54	74	03/08/2016	65.41	-	-	3849.89
2"				05/24/2016	65.44	-	-	3849.86
				09/08/2016	65.47	-	-	3849.83
				12/05/2016	65.50	-	-	3849.80
				03/08/2017	65.55	-	-	3849.75
				06/13/2017	65.61	-	-	3849.69
				09/12/2017	65.64	-	-	3849.66
				12/13/2017	65.70	-	-	3849.60
				03/23/2018	65.73	-	-	3849.57
				06/12/2018	65.81	-	-	3849.49
				09/10/2018	65.74	-	-	3849.56
				12/11/2018	65.90	-	-	3849.40
				03/13/2019	65.96	-	-	3849.34
				06/10/2019	66.00	-	-	3849.30
				09/25/2019	66.04	-	-	3849.26
				12/06/2019	66.13	-	-	3849.17
				03/11/2020	66.17	-	-	3849.13
				05/06/2020	66.12	-	-	3849.18
				06/09/2020	66.18	-	-	3849.12
				09/04/2020	66.23	-	-	3849.07
				12/11/2020	66.27	-	-	3849.03
				03/16/2021	66.30	-	_	3849.00
				06/11/2021	66.78	_	-	3848.52
				09/01/2021	66.40	_	_	3848.90
				11/29/2021	66.45	_	-	3848.85
/W-5	3915.26	54	74	03/08/2016	65.42	_	_	3849.84
4"	3913.20	34	74	05/24/2016	65.47	-	-	3849.79
4				09/08/2016	65.51	-	-	3849.75
						-	-	
				12/05/2016	65.52			3849.74
				03/08/2017	65.59	-	-	3849.67
				06/13/2017	65.65			3849.61
				09/12/2017	65.70	-	-	3849.56
				12/13/2017	65.75	-	-	3849.51
				03/23/2018	65.78	-	-	3849.48
				06/12/2018	65.90	-	-	3849.36
				09/10/2018	65.78	-	-	3849.48
				12/11/2018	65.93	-	-	3849.33
				03/13/2019	65.95	-	-	3849.31
				06/10/2019	66.02	-	-	3849.24
				09/25/2019	66.06	-	-	3849.20
				12/06/2019	66.15	-	-	3849.11
				03/11/2020	66.15	-	-	3849.11
				05/06/2020	65.90	-	-	3849.36
				06/09/2020	66.22	-	-	3849.04
				09/04/2020	66.25	-	-	3849.01
				12/11/2020	66.31	-	-	3848.95
				03/16/2021	66.33	-	-	3848.93
				06/11/2021	66.40	-	-	3848.86
				09/01/2021	66.44	-	-	3848.82
				11/29/2021	66.50	_	_	3848.76
1W-6	3915.45	52	72	03/08/2016	64.71	_	-	3850.74
2"	00.10.40	J2	'-	05/24/2016	64.74	-	-	3850.71
-				09/08/2016	64.80	-	-	3850.65
				12/05/2016	64.85	-	-	3850.60
				03/08/2017	64.90	-	-	3850.55
				06/13/2017	64.91	-	-	3850.54
				09/12/2017	64.97	-	-	3850.48
						-	-	3850.48
				12/13/2017 03/23/2018	65.02	-	-	
					65.04	-	-	3850.41
				06/12/2018	65.11			3850.34
				09/10/2018	65.04	-	-	3850.41
				12/11/2018	65.22	-	-	3850.23
				03/13/2019	65.23	-	-	3850.22
				06/10/2019	68.27	-	-	3847.18
				09/25/2019	DR	-	-	-
				12/06/2019	DR	-	-	-
				03/11/2020	DR	-	-	-
				05/06/2020	DR	-	-	-
				06/09/2020	DR	-	-	-
				09/04/2020	DR	-	-	-
				12/11/2020	DR	-	-	-
				03/16/2021	DR	•	-	
				06/10/2021	DR	-	-	
				09/01/2021	DR	-	-	
				11/29/2021	DR	-	-	

Table 1 - Gauging and NAPL Thickness - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Date Sampled	Depth to Water	Depth to Product	Product Thickness	Groundwate Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-7	3914.73	51	71	03/08/2016	64.39	`-	`-	3850.34
2"				05/24/2016	64.46	-	-	3850.27
				09/08/2016	64.49	-	-	3850.24
				12/05/2016	64.50	-	-	3850.23
				03/08/2017	64.29	-	-	3850.44
				06/13/2017	64.61	-	-	3850.12
				09/12/2017	64.67	-	-	3850.06
				12/13/2017	64.72	-	-	3850.01
				03/23/2018	65.75	-	-	3848.98
				06/12/2018	64.86	-	-	3849.87
				09/10/2018	64.78	-	-	3849.95
				12/11/2018	64.91	-	-	3849.82
				03/13/2019	64.91	-	-	3849.82
				06/10/2019	64.98	-	-	3849.75
				09/25/2019	65.04	-	-	3849.69
				12/06/2019	65.10	-	-	3849.63
				03/11/2020	OB	-	-	-
				05/06/2020	OB	-	-	-
				06/09/2020	OB	-	-	
				09/04/2020	66.37	-	-	3848.36
				12/11/2020	65.31	-	-	3849.42
				03/16/2021	66.35	-	-	3848.38
				06/11/2021	66.50	-	-	3848.23
				09/01/2021	65.43	-	-	3849.30
				11/29/2021	65.45	-	-	3849.28
MW-8	3915.19	53	73	03/08/2016	64.95	-	-	3850.24
2"				05/24/2016	65.00	-	-	3850.19
				09/08/2016	65.04	-	-	3850.15
				12/05/2016	65.07	-	-	3850.12
				03/08/2017	65.10	-	-	3850.09
				06/13/2017	65.17	-	-	3850.02
				09/12/2017	65.21	-	-	3849.98
				12/13/2017	65.26	-	-	3849.93
				03/23/2018	65.28	-	-	3849.91
				06/12/2018	65.36	-	-	3849.83
				09/10/2018	65.31	-	-	3849.88
				12/11/2018	65.45	-	-	3849.74
				03/13/2019	65.49	-	-	3849.70
				06/10/2019	65.52	-	-	3849.67
				09/25/2019	65.60	-	-	3849.59
				12/06/2019	65.83	-	-	3849.36
				03/11/2020	65.68	-	-	3849.51
				05/06/2020	65.68	-	-	3849.51
				06/09/2020	65.74	-	-	3849.45
				09/04/2020	65.74	-	-	3849.45
				12/11/2020	65.81	-	-	3849.38
				03/16/2021	65.83	-	-	3849.36
				06/11/2021	66.10	-	-	3849.09
				09/01/2021 11/29/2021	65.94	-	-	3849.25
414/ 0	2042.02		75		65.98	-	-	3849.21
MW-9 2"	3913.92	55	75	03/08/2016 05/24/2016	64.33		-	3849.59
2					64.32 64.35	-	-	3849.60 3849.57
				09/08/2016 12/05/2016	64.36	-	-	3849.56
				03/08/2017	63.38		-	3850.54
				06/13/2017	65.46	-	-	3848.46
				09/12/2017	64.53	-	-	3849.39
				12/13/2017	64.59		-	3849.33
				03/23/2018	64.75	-	-	3849.17
				06/12/2018	64.68	-	-	3849.24
				09/10/2018	64.71	-	-	3849.21
				12/11/2018	64.76	-	-	3849.16
				03/13/2019	64.80	-	-	3849.12
				06/10/2019	64.85		-	3849.07
				09/25/2019	64.90	-	-	3849.02
				12/06/2019	64.97	-	-	3848.95
				03/11/2020	64.99	-	-	3848.93
				05/06/2020	65.00	-	-	3848.92
				06/09/2020	65.05	-	-	3848.87
				09/04/2020	65.60	-	-	3848.32
				12/11/2020	65.67	-	-	3848.25
				03/16/2021	65.75	-	-	3848.17
				06/11/2021	65.25	-	-	3848.67
				09/01/2021	65.30	-	-	3848.62
		i e	1	00/01/2021	00.00			JU-0.02

Table 1 - Gauging and NAPL Thickness - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Date Sampled	Depth to Water	Depth to Product	Product Thickness	Groundwate Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-10	3914.96	53	73	03/08/2016	65.32	`-	`-	3849.64
2"				05/24/2016	65.40	-	-	3849.56
				09/08/2016	65.41	-	-	3849.55
				12/05/2016	65.48	-	-	3849.48
				03/08/2017	65.50	-	-	3849.46
				06/13/2017	65.54	-	-	3849.42
				09/12/2017	65.46	-	-	3849.50
				12/13/2017	65.66	-	-	3849.30
				03/23/2018	65.64	-	-	3849.32
				06/12/2018	65.30	-	-	3849.66
				09/10/2018	65.72	-	-	3849.24
				12/11/2018	65.82	-	-	3849.14
				03/13/2019	65.87	-	-	3849.09
				06/10/2019	65.92	-	-	3849.04
				09/25/2019	65.97	-	-	3848.99
				12/06/2019	66.02	-	-	3848.94
				03/11/2020	66.05	-	-	3848.91
				05/06/2020	66.00	-	-	3848.96
				06/09/2020	66.07	-	-	3848.89
				09/04/2020	66.98	-	-	3847.98
				12/11/2020	DR	-	-	-
				03/16/2021	DR	-	-	
				06/11/2021	DR	-	-	
				09/01/2021	DR	-	-	
				11/29/2021	DR	-	-	
MW-11	3914.4	52	72	03/08/2016	64.70	-	-	3849.70
2"				05/24/2016	65.77	-	-	3848.63
				09/08/2016	64.80	-	-	3849.60
				12/05/2016	64.81	-	-	3849.59
				03/08/2017	64.90	-	-	3849.50
				06/13/2017	64.93	-	-	3849.47
				09/12/2017	64.97	-	-	3849.43
				12/13/2017	65.04	-	-	3849.36
				03/23/2018	65.03	-	-	3849.37
				06/12/2018	65.19	-	-	3849.21
				09/10/2018	65.08	-	-	3849.32
				12/11/2018	65.21	-	-	3849.19
				03/13/2019	65.25	-	-	3849.15
				06/10/2019	65.34	-	-	3849.06
				09/25/2019	65.36	-	-	3849.04
				12/06/2019	65.43	-	-	3848.97
				03/11/2020	65.47	-	-	3848.93
				05/06/2020	65.45	-	-	3848.95
				06/09/2020	65.47	-	-	3848.93
				09/04/2020	65.52	-	-	3848.88
				12/11/2020	65.80	-	-	3848.60
				03/16/2021	65.63	-	-	3848.77
				06/11/2021	68.99	-	-	3845.41
				09/01/2021	65.74	-	-	3848.66
				11/29/2021	65.80	-	-	3848.60
MW-12	3913.97	58	78	03/08/2016	64.93	-	-	3849.04
2"				05/24/2016	64.98	-	-	3848.99
				09/08/2016	65.02	-	-	3848.95
				12/05/2016	65.05	-	-	3848.92
				03/08/2017	65.07	-	-	3848.90
				06/13/2017	65.18	-	-	3848.79
				09/12/2017	64.95	-	-	3849.02
				12/13/2017	64.76	-	-	3849.21
				03/23/2018	64.45	-	-	3849.52
				06/12/2018	65.20	-	-	3848.77
				09/10/2018	65.31	-	-	3848.66
				12/11/2018	65.45	-	-	3848.52
				03/13/2019	65.46	-	-	3848.51
				06/10/2019	65.57	-	-	3848.40
				09/25/2019	65.59		-	3848.38
				12/06/2019	65.67	-	-	3848.30
				03/11/2020	65.68	-	-	3848.29
				05/06/2020	65.70	-	-	3848.27
				06/09/2020	65.71	-	-	3848.26
				09/04/2020	67.75	-	-	3846.22
				12/11/2020	65.83		-	3848.14
				03/16/2021	65.83	-	-	3848.14
				06/11/2021	65.94	-	-	3848.03
				09/01/2021	66.00	-	-	3847.97
			Ì	11/29/2021	66.00	-	-	3847.97

Table 1 - Gauging and NAPL Thickness - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Date Sampled	Depth to Water	Depth to Product	Product Thickness	Groundwate Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-13	3915.83	54	79	03/08/2016	67.60	65.10	2.50	3850.32
4"				05/24/2016	66.69 66.53	65.31 65.42	1.38 1.11	3850.29 3850.23
				09/08/2016 12/01/2016	66.94	65.41	1.53	3850.17
				03/08/2017	66.80	65.42	1.38	3850.18
				06/13/2017	66.45	65.57	0.88	3850.11
				09/12/2017	66.45	65.58	0.87	3850.11
				12/13/2017	66.20	65.71	0.49	3850.04
				03/23/2018	65.81	65.80	0.01	3850.03
				06/12/2018	66.55	65.80	0.75	3849.91
				09/10/2018	65.88	65.78	0.10	3850.03
				12/11/2018 03/13/2019	67.00 66.27	65.80 66.12	1.20 0.15	3849.83 3849.69
				06/10/2019	67.20	66.00	1.20	3849.63
				09/25/2019	66.55	66.04	0.51	3849.71
				12/06/2019	66.80	66.25	0.55	3849.49
				03/11/2020	66.30	66.24	0.06	3849.58
				05/06/2020	66.35	66.20	0.15	3849.61
				06/09/2020	66.86	66.10	0.76	3849.60
				09/04/2020	DR	-	-	-
				12/11/2020	66.55	66.54	0.01	3849.29
				03/16/2021	67.50 67.10	66.40 66.40	1.10	3849.25
				06/11/2021 09/01/2021	67.15	66.35	0.70 0.80	3849.31 3849.35
				11/29/2021	66.83	66.80	0.03	3849.03
MW-14	3915.72	53	78	03/08/2016	68.35	64.91	3.44	3850.24
4"				05/24/2016	65.62	65.49	0.13	3850.21
				09/08/2016	65.73	65.54	0.19	3850.15
				12/01/2016	66.31	65.50	0.81	3850.09
				03/08/2017	66.25	65.50	0.75	3850.10
				06/13/2017	66.72	65.50	1.22	3850.02
				09/12/2017	67.05	65.50	1.55	3849.96
				12/13/2017 03/23/2018	66.90 67.75	65.45 65.42	1.45 2.33	3850.03 3849.92
				06/12/2018	68.09	65.49	2.60	3849.80
				09/10/2018	65.19	65.18	0.01	3850.54
				12/11/2018	66.08	65.95	0.13	3849.75
				03/13/2019	66.05	66.03	0.02	3849.69
				06/10/2019	66.12	66.08	0.04	3849.63
				09/25/2019	66.12	66.10	0.02	3849.62
				12/06/2019	66.20	66.17	0.03	3849.55
				03/11/2020	66.25	66.20	0.05	3849.51
				05/06/2020 06/09/2020	66.25 66.27	66.20 66.22	0.05 0.05	3849.51 3849.49
				09/04/2020	66.30	66.29	0.03	3849.43
				12/11/2020	66.37	66.36	0.01	3849.36
				03/16/2021	66.40	66.38	0.02	3849.34
				06/11/2021	66.46	66.44	0.02	3849.28
				09/01/2021	66.48	66.47	0.01	3849.25
				11/29/2021	66.56	66.52	0.04	3849.19
MW-15	3915.84	54	79	03/08/2016	65.81	65.20	0.61	3850.54
4"				05/24/2016	65.87	65.21	0.66	3850.52
				09/08/2016 12/01/2016	65.42 65.48	65.36 65.42	0.06 0.06	3850.47 3850.41
				03/08/2017	65.45	65.40	0.05	3850.43
				06/13/2017	65.68	65.46	0.22	3850.34
				09/12/2017	65.57	65.52	0.05	3850.31
				12/13/2017	65.65	65.59	0.06	3850.24
				03/23/2018	65.68	65.59	0.09	3850.24
				06/12/2018	65.80	65.65	0.15	3850.17
				09/10/2018	65.61	-	-	3850.23
				12/11/2018	65.77	-	-	3850.07
				03/13/2019	65.79	-	-	3850.05
				06/10/2019 09/25/2019	65.84 65.90	-	-	3850.00 3849.94
				12/06/2019	65.97	-	-	3849.87
				03/11/2020	66.00	-	-	3849.84
				05/06/2020	66.00	-	-	3849.84
				06/09/2020	66.08	-	-	3849.76
				09/04/2020	66.05	-	-	3849.79
				12/11/2020	66.12	-	-	3849.72
				03/16/2021	66.15	-	-	3849.69
	i l	1	1	06/11/2021	65.89	1 -	I -	3849.95
				09/01/2021	66.26	-	-	3849.58

Table 1 - Gauging and NAPL Thickness - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Date Sampled	Depth to Water	Depth to Product	Product Thickness	Groundwat Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-16	3915.43	54	79	03/08/2016	65.78	65.00	0.78	3850.30
4"				05/24/2016	65.85	65.00	0.85	3850.29
				09/08/2016	65.23	65.20	0.03	3850.23
				12/01/2016	65.32	65.23	0.09	3850.19
				03/08/2017	65.27	65.21	0.06	3850.21
				06/13/2017	65.35	65.29	0.06	3850.13
				09/12/2017	65.40	65.33	0.07	3850.09
				12/13/2017	65.44	65.38	0.06	3850.04
				03/23/2018	65.48	65.40	0.08	3850.02
				06/12/2018	65.65	65.45	0.20	3849.95
				09/10/2018	65.45	-	-	3849.98
				12/11/2018	65.60	-	-	3849.83
				03/13/2019	65.60	-	-	3849.83
				06/10/2019	65.65	-	-	3849.78
				09/25/2019	65.75	-	-	3849.68
				12/06/2019	65.86	-	-	3849.57
				03/11/2020	65.81	-	-	3849.62
				05/06/2020	65.82	-	-	3849.61
				06/09/2020	65.87	-	-	3849.56
				09/04/2020	65.90	-	-	3849.53
				12/11/2020	65.96	-	-	3849.47
				03/16/2021	65.97	-	-	3849.46
				06/11/2021	66.83	-	-	3848.60
				09/01/2021	66.07	-	-	3849.36
				11/29/2021	66.12	-	-	3849.31
/IW-17	3915.59	58	78	03/08/2016	68.59	64.51	4.08	3850.41
4"				05/24/2016	67.19	64.85	2.34	3850.35
				09/08/2016	66.61	65.04	1.57	3850.29
				12/01/2016	67.28	65.96	1.32	3849.41
				03/08/2017	66.97	65.03	1.94	3850.24
				06/13/2017	66.65	65.14	1.51	3850.20
				09/12/2017	66.43	65.28	1.15	3850.12
				12/13/2017	66.07	65.40	0.67	3850.08
				03/23/2018	65.64	65.51	0.13	3850.06
				06/12/2018	66.50	65.44	1.06	3849.98
				09/10/2018	66.59	65.38	1.21	3850.01
				12/11/2018	67.24	65.40	1.84	3849.89
				03/13/2019	66.19	65.84	0.35	3849.69
				06/10/2019	67.21	65.50	1.71	3849.81
				09/25/2019	66.55	65.68	0.87	3849.77
				12/06/2019	65.87	65.70	0.17	3849.86
				03/11/2020	66.05	65.91	0.14	3849.66
				05/06/2020	66.25	65.85	0.14	3849.67
				06/09/2020	67.81	65.80	2.01	3849.46
				09/04/2020	66.70	65.85	0.85	3849.60
				12/11/2020	66.16	66.14	0.02	3849.45
				03/16/2021	68.20	65.79	2.41	3849.40
				00/44/0004	00.07	05.70	0.00	3849.43
				06/11/2021	68.07	65.78	2.29	3849.42
				11/29/2021	66.63	66.18	0.45	3849.34
1W-18	3912.9	55	80	03/08/2016	64.19	00.10	-	3848.71
4"	3912.9	55	80	05/24/2016	63.45	-	-	3849.45
4						-	-	
				09/08/2016	64.50 64.62	-	-	3848.40 3848.28
				12/05/2016 03/08/2017	64.50	_	-	
				03/08/2017	64.50	-	-	3848.40 3848.20
						-	-	3849.07
				09/12/2017	63.83	_	-	
				12/13/2017 03/23/2018	64.66	-	-	3848.24 3848.21
					64.69	-	-	
				06/12/2018	64.75			3848.15
				09/10/2018	65.85	-	-	3847.05
				12/11/2018	64.87	-	-	3848.03
				03/13/2019	64.90			3848.00
				06/10/2019	64.97	-	-	3847.93
				09/25/2019	65.01	-	-	3847.89
				12/06/2019	66.10	-	-	3846.80
				03/11/2020	65.18	-	-	3847.72
				05/06/2020	65.10	-	-	3847.80
				06/09/2020	66.10	-	-	3846.80
				09/04/2020	65.25	-	-	3847.65
				12/11/2020	66.24	-	-	3846.66
				03/16/2021	65.30	-	-	3847.60
				06/10/2021	65.48	-	-	3847.42
				09/01/2021	65.40	-	-	3847.50
			ĺ	11/29/2021	65.50	-	-	3847.40

Table 1 - Gauging and NAPL Thickness - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

			I					
	Casing	Top of	Bottom of	Date	Depth to	Depth to	Product	Groundwater
Sample ID	Elevation	Screen	Screen	Sampled	Water	Product	Thickness	Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-19	3913.35	60	80	09/10/2018	65.41	`='	`-	3847.94
4"				12/11/2018	65.55	-	-	3847.80
				03/13/2019	65.58	-	-	3847.77
				06/10/2019	65.65	-	-	3847.70
				09/25/2019	65.68	-	-	3847.67
				12/06/2019	65.75	-	-	3847.60
				03/11/2020	65.80	-	-	3847.55
				05/06/2020	65.80	-	-	3847.55
				06/09/2020	65.82	-	-	3847.53
				09/04/2020	65.90	-	-	3847.45
				12/11/2020	65.92	-	-	3847.43
				03/16/2021	64.95	-	-	3848.40
				06/10/2021	66.05	-	-	3847.30
				09/01/2021	66.12	-	-	3847.23
				11/29/2021	66.10	-	-	3847.25
MW-20	3912.13	60	80	09/10/2018	64.31	-	-	3847.82
4"				12/11/2018	65.45	-	-	3846.68
				03/13/2019	64.48	-	-	3847.65
				06/10/2019	65.57	-	-	3846.56
				09/25/2019	65.60	-	-	3846.53
				12/06/2019	64.66	-	-	3847.47
				03/11/2020	64.69	-	-	3847.44
				05/06/2020	64.68	-	-	3847.45
				06/09/2020	64.71	-	-	3847.42
				09/04/2020	64.76	-	-	3847.37
				12/11/2020	64.82	-	-	3847.31
				03/16/2021	64.85	-	-	3847.28
				06/10/2021	64.94	-	-	3847.19
				09/01/2021	65.00	-	-	3847.13
				11/29/2021	65.00	-	-	3847.13

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 Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NMOCD - G	Groundwater	0.01	0.75	0.75	0.62	-
MW-1	03/08/2016	< 0.000223	<0.000238	<0.000238	< 0.000243	-
	05/24/2016	< 0.000223	<0.000238	<0.000238	< 0.000243	-
	09/08/2016	< 0.000504	<0.000621	< 0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	< 0.000657	< 0.000642	1
	03/08/2017	<0.000408	< 0.000367	< 0.000657	< 0.000630	< 0.000367
	06/13/2017	0.000700 J	<0.00100	< 0.000657	< 0.000642	0.000700 J
	09/14/2017	<0.000408	< 0.000367	< 0.000657	<0.000630	< 0.000367
	12/18/2017	<0.000408	< 0.000367	< 0.000657	<0.000630	< 0.000367
	03/26/2018	<0.000408	< 0.000367	< 0.000657	< 0.000630	< 0.000367
	06/12/2018	<0.000480	< 0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	< 0.000367	<0.000657	<0.000630	< 0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	0.00442	< 0.000367	<0.000657	<0.00063	0.00442
	06/11/2019	<0.000371	< 0.000333	< 0.000597	< 0.000572	<0.000333
	09/26/2019	<0.000408	< 0.000367	< 0.000657	<0.000630	< 0.000367
	12/07/2019	0.00424	< 0.000367	0.000660	<0.000630	0.00490
	03/12/2020	<0.000408	< 0.000367	< 0.000657	<0.000630	< 0.000367
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	< 0.000367
	09/10/2020	0.00236	< 0.000367	<0.000657	<0.000630	0.00236
	12/14/2020	0.000820 J	<0.002000	0.00270	0.00303	0.006550
	03/19/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	< 0.00400	<0.00400
	11/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
MW-3	03/08/2016	0.127	<0.000238	0.0904	0.0707	-
	05/24/2016	0.151	<0.000238	0.129	0.107	-
	09/08/2016	0.166	<0.000621	0.132	0.123	1
	12/05/2016	0.261	<0.00100	0.217	0.234	-
	03/08/2017	0.146	< 0.000367	0.143	0.146	0.435
	06/13/2017	0.159	0.00296	0.238	0.156	0.556
	09/14/2017	0.101	< 0.000367	0.178	0.129	0.408
	12/18/2017	0.0232	0.000750 J	0.0325	0.0228	0.0792
	03/26/2018	0.0119	0.00131 J	0.0241	0.0171	0.0544
	06/12/2018	0.0108	<0.000512	0.0266	0.0176	0.0550
	09/11/2018	0.0132	< 0.000367	0.0317	0.0184	0.0633
	12/12/2018	0.0341	< 0.000512	0.0725	0.123	0.230
	03/15/2019	0.0189	0.00157	0.0822	0.120	0.222
	06/10/2019	0.0101	< 0.000342	0.0551	0.0419	0.107
	09/26/2019	0.00860	< 0.000367	0.0480	0.0380	0.0946
	12/07/2019	0.00508	< 0.000367	0.0360	0.0189	0.0600
	03/12/2020	<0.000408	< 0.000367	0.0560	0.0454	0.101
	06/11/2020	0.00554 F	<0.000367 F	0.0774 LF	0.110	0.193
	09/08/2020	<0.000408	< 0.000367	<0.000657	<0.000630	< 0.000367
	12/14/2020	0.00300	<0.002000	0.0364	0.0597	0.09914
	03/19/2021	0.00291	0.000481 J	0.0226	0.00208 J	0.0281
	06/11/2021	0.00163 J	<0.00200	0.0838	0.107	0.193
	09/07/2021	<0.00200	<0.00200	0.0561	0.0718	0.128
	11/30/2021	0.000494 J	<0.00200	0.0339	0.0225	0.0569

Table 2 - Groundwater Analytical Data - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

SRS#: 2002-10312						
Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTE
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-4	03/08/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	
	03/08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2017 09/14/2017	<0.000408 <0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	12/18/2017	<0.000408	<0.000367 <0.000367	<0.000657 <0.000657	<0.000630 <0.000630	<0.000367 <0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	0.00140	<0.000512	<0.000616	<0.000270	0.00140
	09/11/2018	<0.000408	< 0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	<0.000408	< 0.000367	0.000980	0.00107	0.00205
	06/10/2019	<0.000372	<0.000335	<0.0006	<0.000575	< 0.000335
	09/26/2019	0.00619	< 0.000367	<0.000657	<0.000630	0.00619
	12/07/2019	0.000710	< 0.000367	<0.000657	<0.000630	0.000710
	03/11/2020	0.0123	<0.000367	<0.000657	<0.000630	0.0123
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	< 0.000367
	09/08/2020	0.0132	< 0.000367	0.0497	0.0722	0.135
	12/14/2020	0.00110 J	<0.002000	0.00457	0.00659	0.01226
	03/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	0.00157 J	0.00179 J	0.00336 J
	11/30/2021	<0.0200	< 0.0200	< 0.0200	<0.0400	<0.0400
MW-5	03/08/2016	< 0.000223	<0.000238	<0.000238	< 0.000243	-
	05/24/2016	< 0.000223	<0.000238	<0.000238	< 0.000243	-
	09/08/2016	<0.000504	<0.000621	< 0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	< 0.000657	< 0.000642	-
	03/08/2017	<0.000408	< 0.000367	<0.000657	<0.000630	< 0.000367
	06/13/2017	0.000800 J	<0.00100	<0.000657	<0.000642	0.000800
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	< 0.000367
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	< 0.000367
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	< 0.000367
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	0.00692	<0.000367	<0.000657	<0.00063	0.00692
	06/11/2019	<0.000387	<0.000348	<0.000623	<0.000597	<0.000348
	09/26/2019	0.0132	<0.000367	<0.000657	<0.000630	0.0132
	12/07/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/12/2020	0.00405	<0.000367	<0.000657	<0.000630	0.00405
	06/11/2020	0.00131 JF	<0.000367 F	<0.000657 LF	<0.000630	0.00131
	09/10/2020 12/15/2020	0.00138 J	<0.000367	<0.000657 0.00134 J	<0.000630	0.00138 0.003300
	03/18/2021	0.000650 J <0.00200	<0.002000 <0.00200	<0.00134 3	0.00131 J <0.00400	<0.003300
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
MW-6	03/08/2016	<0.00223	<0.00238	<0.00238	<0.00043	-
	05/24/2016	<0.000223	<0.000238	<0.000238	<0.000243	_
	09/08/2016	<0.000504	<0.000233	<0.000763	<0.000246	-
	12/05/2016	<0.000408	<0.00100	<0.000765	<0.000642	-
	03/08/2017	<0.000408	< 0.000367	<0.000657	<0.000630	< 0.00036
	06/13/2017	0.00344	<0.00100	<0.000657	<0.000642	0.00344
	09/14/2017	<0.00044	<0.000367	<0.000657	<0.000630	<0.00036
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.00036
	03/26/2018	<0.000408	0.000720 J	<0.000657	<0.000630	0.000720
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.00072
	09/11/2018	<0.000408	< 0.000367	<0.000657	<0.000630	<0.00036
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
		~0.000 1 00	\0.00031Z	~0.000010		

Table 2 - Groundwater Analytical Data - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

MW-7 03/0 05/2 09/0 12/0 03/0 06/- 09/- 12/- 03/0 06/- 09/- 12/- 03/0 06/- 09/- 12/- 03/0 06/- 09/- 12/- 03/0 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 12/- 03/- 06/- 09/- 09/- 12/- 03/- 06/- 09/- 09/- 12/- 03/- 06/- 09/- 09/- 12/- 03/- 06/- 09/- 09/- 12/- 03/- 06/- 09/- 09/- 09/- 09/- 09/- 09/- 09/- 09	Sampled 08/2016 24/2016 08/2016 08/2016 08/2017 13/2017 14/2017 18/2018 11/2018 11/2018 11/2019 10/2019 26/2019 08/2016 08/2016 08/2016 08/2017 13/2017 14/2017	Benzene (mg/L) <0.000223 <0.000223 <0.000504 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000223 <0.000504 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408	Toluene (mg/L) <0.000238 <0.000621 <0.00100 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.00038 <0.000367 <0.00038 <0.00038 <0.00038 <0.00038 <0.000238	(mg/L) <0.000238 <0.000238 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657	Total Xylenes (mg/L) <0.000243 <0.000243 <0.000256 <0.000630 <0.000630 <0.000630 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000630 <0.000630 <0.000630 <0.000630 <0.000630	Total BTEX (mg/L)
05/2	24/2016 08/2016 08/2016 05/2016 08/2017 13/2017 14/2017 18/2017 26/2018 11/2018 11/2018 11/2018 11/2019 10/2019 07/2019 08/2016 08/2016 08/2016 08/2017 13/2017	 <0.000223 <0.000223 <0.000504 <0.000408 <0.000223 <0.000504 <0.000408 	<0.000238 <0.000238 <0.000621 <0.00100 <0.000367 <0.000367 <0.000367 <0.000367 <0.000512 <0.000367 <0.000512 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.0003867 <0.0003867 <0.0003867 <0.0003867 <0.0003867 <0.0003867	 <0.000238 <0.000238 <0.000763 <0.000657 <0.000562 <0.000657 <0.000657 	<0.000243 <0.000243 <0.000256 <0.000642 <0.000630 <0.000630 <0.000630 <0.000630 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000630 <0.000630 <0.000630 <0.000630 <0.000630 <0.000630	- - - - - - - - - - - - - - - - - - -
05/2	24/2016 08/2016 08/2016 05/2016 08/2017 13/2017 14/2017 18/2017 26/2018 11/2018 11/2018 11/2018 11/2019 10/2019 07/2019 08/2016 08/2016 08/2016 08/2017 13/2017	 <0.000223 <0.000504 <0.000408 <0.000223 <0.000504 <0.000408 <0.000408 	<pre><0.000238 <0.000621 <0.00100 <0.000367 <0.00100 <0.000367 <0.000367 <0.000367 <0.000512 <0.000367 <0.000512 <0.000367 <0.0003867 <0.0003867 <0.0003867 <0.000388</pre>	 <0.000238 <0.000763 <0.000657 <0.000562 <0.000657 <0.000657 	<0.000243 <0.000256 <0.000642 <0.000630 <0.000630 <0.000630 <0.000630 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000630 <0.000630 <0.000630 <0.000630 <0.000630 <0.000630	- 0.000367 0.00481 <0.000367 <0.000367 <0.000367 0.00270 <0.000367 <0.000270 0.000630 0.0407
09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 06/0 09/0 12/0 03/0 05/2 09/0 12/0 03/0 05/2 09/0 09/0 12/0 03/0 05/2 09/0 09/0 12/0 03/0 05/2 09/0 03/0 05/2 09/0 03/0 05/2 09/0 03/0 05/2 09/0 03/0 03/0 05/2 09/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0 03/0	08/2016 05/2016 08/2017 13/2017 14/2017 18/2017 18/2018 12/2018 11/2018 11/2018 11/2018 11/2019 10/2019 06/2019 07/2019 08/2016 24/2016 08/2016 08/2017 13/2017	 <0.000504 <0.000408 <0.000407 <0.000408 <0.000408 <0.000223 <0.000504 <0.000408 <0.000408 	<pre><0.000621 <0.00100 <0.000367 <0.00100 <0.000367 <0.000367 <0.000367 <0.000512 <0.000367 <0.000512 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.0003867</pre>	 <0.000763 <0.000657 <0.000562 <0.000657 	<0.000256 <0.000642 <0.000630 <0.000630 <0.000630 <0.000630 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000270 <0.000630 <0.000630 <0.000630	- 0.000367 0.00481 0.000367 0.000367 0.00270 0.000367 0.000270 0.000630 0.0407
12/0 03/0 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/0 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 12/2 03/2 06/2 09/2 03/2 06/2 09/2 03/2 06/2 09/2 03/2 06/2 09/2 03/2 06/2 09/2 03/2 06/2 09/2 03/2 06/2	05/2016 08/2017 13/2017 14/2017 18/2017 18/2018 12/2018 11/2018 11/2018 11/2019 10/2019 26/2019 07/2019 08/2016 24/2016 08/2016 08/2017 13/2017	 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000408 <0.000630 <0.000407 <0.000408 <0.000408 <0.000408 <0.000223 <0.000504 <0.000408 	<0.00100 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000512 <0.000512 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.000367 <0.0003867 <0.0003867 <0.0003867 <0.0003867	<pre><0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.00120 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657 <0.000657</pre>	<0.000642 <0.000630 <0.000642 <0.000630 <0.000630 <0.000630 <0.000270 <0.000630 <0.000270 <0.00063 <0.000538 <0.000538	- <0.000367 0.00481 <0.000367 <0.000367 <0.000367 0.00270 <0.000367 <0.000270 0.000630 0.0407
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09/ 12/ 03/ 06/ 09/2 12/0 03/ 06/ 09/ 12/ 03/2 06/ 09/0 11/3 MW-9 03/0 05/2 09/0 11/3 05/2 09/0 12/0 03/2 06/	26/2018	<0.000408	0.000610 J	< 0.000657	<0.000630	0.000610 J
12/ 03/ 06/ 09/2 12/0 03/ 06/ 09/ 12/ 03/2 06/ 09/0 11/3 MW-9 03/0 05/2 09/0 11/3 05/2 09/0 12/0 03/0 04/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 11/3 06/0 09/0 09/0 11/3 06/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09	12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
03/ 06/ 09/2 12/0 03/ 06/ 09/ 12/ 03/2 06/ 09/0 11/3 MW-9 03/0 05/2 09/0 11/3 05/2 09/0 05/2 09/0 03/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 00/0 0	11/2018	<0.000408	< 0.000367	<0.000657	<0.000630	<0.000367
06/ 09/2 12/0 03/ 06/ 09/ 12/ 03/2 06/ 09/0 11/3 MW-9 03/0 05/2 09/0 12/0 03/0 05/2 09/0 05/2 09/0 05/2 03/0 05/2 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0 09/0	11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
09/2 12/0 03/2 06/2 09/2 12/2 03/2 06/2 09/0 11/3 MW-9 03/0 05/2 09/0 12/0 03/0 03/0	15/2019	0.00530	<0.000367	<0.000657	<0.00063	0.00530
12/0 03/ 06/ 09/ 12/ 03/2 06/ 09/0 11/3 MW-9 03/0 05/2 09/0 12/0 03/0	11/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
03/ 06/ 09/ 12/ 03/2 06/ 09/0 11/3 MW-9 03/0 05/2 09/0 12/0 03/0	26/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
06/ 09/ 12/ 03/2 06/ 09/0 11/3 MW-9 03/0 05/2 09/0 12/0 03/0	07/2019	0.0586	<0.000367	0.00422	<0.000630	0.0628
09/ 12/ 03/2 06/ 09/0 11/3 MW-9 03/0 05/2 09/0 12/0 03/0	12/2020 11/2020	0.00465 0.000870 JF	<0.000367 <0.000367 F	<0.000657 <0.000657 LF	<0.000630 <0.000630	0.00465 0.000870 J
12/ 03/2 06/ 09/0 11/3 MW-9 03/0 05/2 09/0 12/0 03/0	10/2020	0.00208	<0.000367	<0.000657	<0.000630	0.00208
03/2 06/ 09/0 11/3 MW-9 03/0 05/2 09/0 12/0 03/0	15/2020	0.00200 J	<0.002000	0.00116 J	0.00132 J	0.00200
06/ 09/0 11/3 MW-9 03/0 05/2 09/0 12/0 03/0	29/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
11/3 MW-9 03/0 05/2 09/0 12/0 03/0	11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
MW-9 03/0 05/2 09/0 12/0 03/0	07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
05/2 09/0 12/0 03/0	30/2021	< 0.00200	< 0.00200	<0.00200	<0.00400	< 0.00400
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	05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
1 06/	08/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	13/2017 14/2017	0.00113 J <0.000408	<0.00100	<0.000657	<0.000642	0.00113 J
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	12/2018	<0.000480	<0.000512	<0.000616	<0.00030	<0.000270
	11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	14/2019	0.000930	<0.000367	<0.000657	<0.00063	0.000930
06/		<0.000373	< 0.000335	<0.0006	<0.000575	<0.000335
	11/2019	0.0105	<0.000367	<0.000657	<0.000630	0.0105
	11/2019 26/2019	0.000410	<0.000367	<0.000657	<0.000630	0.000410
	11/2019 26/2019 07/2019	0.00583	<0.000367	<0.000657	<0.000630	0.00583
	11/2019 26/2019 07/2019 12/2020	0.00496	<0.000367	<0.000657	<0.000630	0.00496
	11/2019 26/2019 07/2019 12/2020 10/2020	0.000750 J	<0.002000	0.00166 J	0.00163 J	0.004040
	11/2019 26/2019 07/2019 12/2020 10/2020 15/2020		<0.00200	<0.00200	<0.00400	<0.00200
	11/2019 26/2019 07/2019 12/2020 10/2020 15/2020 18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
11/3	11/2019 26/2019 07/2019 12/2020 10/2020 15/2020	<0.00200 <0.00200 <0.00200	< 0.00200	<0.00200 <0.00200	<0.00400 <0.00400	<0.00400

Table 2 - Groundwater Analytical Data - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

			SRS#: 2002	2-10312		
Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTE
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-10	03/08/2016	2.62	<0.0119	0.222	<0.0122	-
	05/24/2016	2.38	<0.00238	0.127	0.0325	-
	09/08/2016	3.16	<0.0329	0.181	<0.0136	-
	12/05/2016	3.35	<0.0200	0.178	0.0420	- 0.40
	03/08/2017	2.69	0.0620 J	0.303	0.0790 J	3.13
	06/13/2017 09/14/2017	0.00417 11.5 D	<0.00100	<0.000657 0.901 D	<0.000642	0.00417
	12/18/2017	12.1 D	<0.000367 0.00857	0.951 D	0.0192 0.0257	12.4 13.1
	03/26/2018	5.04	0.00657 0.0270 J	0.518	<0.0237	5.59
	06/12/2018	3.94	<0.00512	0.422	<0.00270	4.36
	09/11/2018	6.30 D	0.000380 J	0.693 D	0.00625	7.00
	12/11/2018	3.65	<0.0256	0.420	< 0.0135	4.07
	03/14/2019	4.29	< 0.000367	0.142	<0.00063	4.43
	06/10/2019	32	<0.0367	2.89	2.56	38
	09/26/2019	4.43	< 0.000367	0.307	<0.000630	4.74
	12/07/2019	1.12	< 0.000367	0.0564	<0.000630	1.18
	03/11/2020	3.03 D	< 0.000367	0.161	<0.000630	3.19
	06/11/2020	2.33 DF	0.00104 JF	0.0498 LF	0.00203	2.38
ЛW-11	03/08/2016	< 0.000223	<0.000238	<0.000238	< 0.000243	-
	05/24/2016	< 0.000223	<0.000238	<0.000238	<0.000243	-
	09/08/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/05/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/08/2017	0.000720 J	<0.000367	<0.000657	<0.000630	0.000720
	06/13/2017	0.00424	<0.00100	<0.000657	<0.000642	0.00424
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.00036
	12/18/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.00036
	03/26/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.00036
	06/12/2018	0.00270	<0.000512	<0.000616	<0.000270	0.00270
	09/11/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.00036
	12/11/2018	<0.000480 0.0101	<0.000512	<0.000616 0.00173	<0.000270 0.00146	<0.00027 0.0133
	03/14/2019 06/10/2019	<0.000378	<0.000367 <0.00034	<0.00173	<0.00148	<0.0034
	09/26/2019	0.0429	<0.00034	0.00902	<0.000384	0.0519
	12/07/2019	0.000820	0.000440	<0.00902	<0.000630	0.0013
	03/12/2020	<0.000408	< 0.000367	<0.000657	<0.000630	<0.00036
	06/11/2020	<0.000408 F	<0.000367 F	<0.000657 LF	<0.000630	<0.00036
	09/08/2020	0.00575	< 0.000367	0.00384	0.00263	0.0122
	12/15/2020	0.00153 J	<0.002000	0.00251	0.00254	0.006580
	03/29/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/11/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/07/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	11/30/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
ЛW-12	03/08/2016	1.88	< 0.0119	< 0.0119	<0.0122	-
	05/24/2016	0.634	< 0.0119	< 0.0119	<0.0122	-
	09/08/2016	0.162	<0.0329	<0.0404	<0.0136	-
	12/05/2016	0.0577	<0.00100	<0.000657	<0.000642	-
	03/08/2017	0.117	<0.0184	<0.0329	<0.0315	0.117
	06/13/2017	0.00768	<0.00100	<0.000657	<0.000642	0.00768
	09/14/2017	0.00496	<0.000367	0.00168 J	<0.000630	0.00664
	12/18/2017	0.0304	<0.000367	0.00627	0.00146 J	0.0381
	03/26/2018	0.000570 J	0.00103 J	<0.000657	<0.000630	0.00160
	06/12/2018	0.00130	<0.000512	<0.000616	0.000700 J	0.00200
	09/11/2018 12/11/2018	0.00136 J <0.000480	<0.000367	<0.000657	<0.000630	0.00136
	03/14/2019	0.000950	<0.000512 <0.000367	<0.000616 <0.000657	<0.000270 <0.00063	<0.00027 0.000950
	06/10/2019	<0.00037	<0.000307	<0.000596	<0.000571	<0.00033
	09/26/2019	0.00564	<0.000333	<0.000596	<0.000571	0.00564
	12/07/2019	0.00364	<0.000367	<0.000657	0.000640	0.00304
	03/12/2020	0.000660	0.000750 J	0.00121 J	<0.000640	0.00132
	00/12/2020	0.00719 0.00101 JF	<0.0007303 <0.000367 F	<0.000657 LF	<0.000630	0.00913
	06/11/2020		~0.000301 F		0.00117 J	0.00101
	06/11/2020		0.000510.1	() ()()()(h)(.)		
	09/10/2020	0.00874	0.000510 J <0.002000	0.00161 J 0.00236		
	09/10/2020 12/15/2020	0.00874 0.00213	<0.002000	0.00236	0.00217	0.006660
	09/10/2020 12/15/2020 03/18/2021	0.00874 0.00213 0.000887 J	<0.002000 0.000745 J	0.00236 0.00108 J	0.00217 0.00273 J	0.006660 0.00544
	09/10/2020 12/15/2020	0.00874 0.00213	<0.002000	0.00236	0.00217	0.006660 0.00544 0.00131 0.00129

Table 2 - Groundwater Analytical Data - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

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

Table 2 - Groundwater Analytical Data - Historical Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

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

Notes

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

Analyte concentration exceeds the standard for:

NMOCD - Groundwater

Table 3 - Groundwater Analytical Data - Historical - PAH supplement Lovington Deep 6 inch Hobbs, NM SRS#: 2002-10312

Sample ID	Date Sampled	Acenaphthene (S	Acenaphthylene g	Anthracene Eg	Benzo(a)anthracene	Benzo(a)pyrene g	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene eg/l)	Dibenz(a,h)anthracene 🚊	Dibenzofuran g	Fluoranthene g	Fluorene (Eg/L)	Indeno (1,2,3-c,d) pyreneg	Naphthalene (E	Phenanthrene (S	Pyrene (Eg/j)
NMOCD - G	roundwater	-	-	-	-	0.007	- (****)	- (****)	-	- (***)	-	-	-	-	-	0.03	-	-
MW-4	03/26/2018	<0.000109	< 0.000109	< 0.000109	< 0.000109	< 0.000109	< 0.000109	< 0.000109	< 0.000109	< 0.000109	<0.000109	< 0.000109	< 0.000109	< 0.000109	< 0.000109	0.000136 J	< 0.000109	<0.000109
	03/15/2019	<0.000041	< 0.0000073	<0.000076	< 0.0000063				<0.0000078			< 0.0000053	<0.0000090	< 0.0000055	< 0.0000049	0.000122	< 0.0000055	<0.000092
	03/11/2020	<0.000103	< 0.0000871	<0.0000896	< 0.000139	<0.0000590	< 0.0000735	<0.000117	<0.000120		< 0.0000786	-	<0.000163	<0.000104	< 0.0000945	<0.000101	<0.0000880	
MW-10	12/05/2016			<0.0000250				<0.0000250			<0.0000250	0.000214	<0.0000250	0.000465		<0.0000250		<0.0000250
	03/26/2018	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	<0.000110	0.000985	<0.000110	0.00167		0.000329 J	0.00129	<0.000110
	03/14/2019				<0.0000063			<0.0000079	<0.0000077	<0.0000087	<0.0000049	0.000142	<0.0000089	0.000255		0.0000739		<0.0000091
1414/40	03/11/2020	0.000555	<0.000104	<0.000107	<0.000166	<0.0000706			<0.000144	<0.000193	<0.000094	- 0.000440	<0.000194	0.00216		0.000301 J	0.00210	<0.000161
MW-12	12/05/2016 03/26/2018	<0.000108	<0.0000250 <0.000108	<0.0000250 <0.000108	<0.0000250 <0.000108	<0.0000250 <0.000108	<0.0000250 <0.000108	<0.0000250 <0.000108	<0.000108	<0.0000250 <0.000108	<0.0000250 <0.000108	0.000110 0.000241	<0.0000250 <0.000108	0.000505 0.000473	<0.0000250 <0.000108	<0.000250 0.000247 J	0.000122 <0.000108	0.0000626 <0.000108
	03/14/2019	<0.0000100	<0.000100	<0.000076	<0.000108	<0.000100	<0.000100	<0.0000100	<0.000100	<0.000108	<0.0000100	0.000241	<0.0000000	0.000473	<0.000108	< 0.000247 5		<0.0000092
	03/12/2020		<0.0000070	<0.0000078	< 0.000149	<0.0000631	<0.0000786	<0.000125	<0.000128		<0.0000840	-	< 0.000174	0.000400	<0.000101	<0.000108	<0.0000940	
MW-18	03/08/2016	< 0.0000329	< 0.0000575	<0.0000318	< 0.0000714	< 0.00000414	< 0.0000703	< 0.0000514	< 0.0000555	< 0.0000803	< 0.0000556	<0.0000601	< 0.0000632	<0.000780	< 0.0000532	< 0.0000166	< 0.0000511	<0.0000411
	03/26/2018	< 0.000110	< 0.000110	<0.000110	< 0.000110	<0.000110	<0.000110	< 0.000110	<0.000110	< 0.000110	< 0.000110	0.000829	<0.000110	< 0.000110	<0.000110	0.000447	0.000388	< 0.000110
	03/14/2019	<0.000041	< 0.0000073	< 0.0000076	< 0.0000063	< 0.0000095	< 0.0000091	<0.0000080	<0.000078	<0.000088	< 0.0000049	0.0000305	< 0.0000090	0.0000255	< 0.0000049	0.0000325	< 0.0000055	< 0.0000092
	03/11/2020	<0.000109	< 0.0000916	< 0.0000943	< 0.000146	< 0.0000621	< 0.0000774	< 0.000123	< 0.000126	< 0.000170	< 0.0000827	-	< 0.000171	0.000167 J	< 0.0000994	<0.000106	0.000183 J	< 0.000142
MW-19	03/14/2019	< 0.0000042	<0.000075	<0.0000077	<0.000065	<0.0000097	<0.0000093	<0.0000081	<0.0000079	<0.0000090	<0.0000050	< 0.0000054	<0.0000091	< 0.0000056	<0.0000050	<0.0000046	<0.0000056	< 0.0000094
	03/11/2020			<0.0000880	<0.000137	<0.0000580	< 0.0000722	<0.000115	<0.000118	< 0.000159	< 0.0000772	-	<0.000160	0.000900		0.000213 J	0.00112	< 0.000132
MW-20	03/14/2019		< 0.0000074		< 0.0000064	<0.0000096	< 0.0000092	<0.0000080	<0.0000079	<0.0000089		<0.0000054	<0.0000090	<0.0000055	<0.000005	0.0000398	<0.0000056	
	03/11/2020	<0.000107	<0.0000899	< 0.0000925	<0.000144	<0.0000609	< 0.0000759	<0.000121	<0.000124	< 0.000167	<0.0000811	-	<0.000168	<0.000108	< 0.0000975	<0.000104	<0.0000908	< 0.000139

Notes:

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

Analyte concentration exceeds the standard for:

NMOCD - Groundwater

APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-403-1

Laboratory Sample Delivery Group: Lovington

Client Project/Site: Lovington Deep

Revision: 2

For:

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

Attn: David Adkins

J. KRAMER

Authorized for release by: 5/4/2021 3:15:26 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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www.eurofinsus.com/Env

Released to Imaging: 8/2/2022 2:57:54 PM

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.

1

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3

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Q Q

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11

Client: Talon/LPE

Laboratory Job ID: 890-403-1

Project/Site: Lovington Deep

SDG: Lovington

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Definitions/Glossary

Client: Talon/LPE

Job ID: 890-403-1

Project/Site: Lovington Deep

SDG: Lovington

Qualifiers

GC VOA

Qualifier Qualifier Description

U Analyte was not detected at or above the SDL.
X Surrogate recovery exceeds control limits

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Example 2 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

Eurofins Xenco, Carlsbad

Case Narrative

Client: Talon/LPE

Job ID: 890-403-1

Project/Site: Lovington Deep

SDG: Lovington

Job ID: 890-403-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-403-1

Comments

No additional comments.

Revision

The report being provided is a revision of the original report sent on 3/29/2021. The report (revision 2) is being revised due to: Per Client email, Corrected less than values.

Report revision history

Revision 1 - 3/31/2021 - Reason - Per Client email, Corrected less than values.

Receipt

The samples were received on 3/22/2021 9:53 AM. 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 was 5.4° C.

Receipt Exceptions

Incorrect NCM for BTEX bulk jar, reportable samples are water

Per Client email, Corrected less than values

GC VOA

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

VOA Prep

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

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Job ID: 890-403-1

Client: Talon/LPE Project/Site: Lovington Deep SDG: Lovington

Client Sample ID: MW-20 Lab Sample ID: 890-403-1

Date Collected: 03/18/21 08:30 **Matrix: Water** Date Received: 03/22/21 09:53

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/28/21 10:43	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/28/21 10:43	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/28/21 10:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/28/21 10:43	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/28/21 10:43	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			03/28/21 10:43	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			03/28/21 10:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	X	70 - 130					03/28/21 10:43	1
1,4-Difluorobenzene (Surr)	97		70 - 130					03/28/21 10:43	1

Lab Sample ID: 890-403-2 **Client Sample ID: MW-19**

Date Collected: 03/18/21 09:00 **Matrix: Water**

Date Received: 03/22/21 09:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0235		0.00200	0.000408	mg/L			03/28/21 11:08	1
Toluene	< 0.00200	U	0.00200	0.000367	mg/L			03/28/21 11:08	1
Ethylbenzene	< 0.00200	U	0.00200	0.000657	mg/L			03/28/21 11:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/28/21 11:08	1
o-Xylene	< 0.00200	U	0.00200	0.000642	mg/L			03/28/21 11:08	1
Xylenes, Total	< 0.00400	U	0.00400	0.000642	mg/L			03/28/21 11:08	1
Total BTEX	0.0235		0.00400	0.000657	mg/L			03/28/21 11:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	X	70 - 130					03/28/21 11:08	1

Client Sample ID: MW-18 Lab Sample ID: 890-403-3

70 - 130

107

Date Collected: 03/18/21 10:40 Date Received: 03/22/21 09:53

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0400	U	0.0400	0.00816	mg/L			03/28/21 11:33	20
Toluene	<0.0400	U	0.0400	0.00734	mg/L			03/28/21 11:33	20
Ethylbenzene	<0.0400	U	0.0400	0.0131	mg/L			03/28/21 11:33	20
m-Xylene & p-Xylene	<0.0800	U	0.0800	0.0126	mg/L			03/28/21 11:33	20
o-Xylene	<0.0400	U	0.0400	0.0128	mg/L			03/28/21 11:33	20
Xylenes, Total	<0.0800	U	0.0800	0.0128	mg/L			03/28/21 11:33	20
Total BTEX	<0.0800	U	0.0800	0.0131	mg/L			03/28/21 11:33	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	135	X	70 - 130					03/28/21 11:33	20
1,4-Difluorobenzene (Surr)	95		70 - 130					03/28/21 11:33	20

03/28/21 11:08

Matrix: Water

Project/Site: Lovington Deep

Client: Talon/LPE

Job ID: 890-403-1 SDG: Lovington

Client Sample ID: MW-12 Lab Sample ID: 890-403-4

Date Collected: 03/18/21 11:00 Matrix: Water Date Received: 03/22/21 09:53

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/28/21 11:58	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/28/21 11:58	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/28/21 11:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/28/21 11:58	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/28/21 11:58	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			03/28/21 11:58	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			03/28/21 11:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	X	70 - 130					03/28/21 11:58	1
1,4-Difluorobenzene (Surr)	100		70 - 130					03/28/21 11:58	1

Client Sample ID: MW-9 Lab Sample ID: 890-403-5

Date Collected: 03/18/21 11:30 Matrix: Water

Date Received: 03/22/21 09:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/28/21 12:24	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/28/21 12:24	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/28/21 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/28/21 12:24	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/28/21 12:24	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			03/28/21 12:24	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			03/28/21 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130					03/28/21 12:24	1
1.4-Difluorobenzene (Surr)	104		70 - 130					03/28/21 12:24	1

Client Sample ID: MW-4

Date Collected: 03/18/21 12:30

Lab Sample ID: 890-403-6

Matrix: Water

Date Received: 03/10/21 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/28/21 14:07	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/28/21 14:07	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/28/21 14:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/28/21 14:07	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/28/21 14:07	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			03/28/21 14:07	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			03/28/21 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	X	70 - 130					03/28/21 14:07	1
1,4-Difluorobenzene (Surr)	91		70 - 130					03/28/21 14:07	1

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Job ID: 890-403-1

Client: Talon/LPE Project/Site: Lovington Deep SDG: Lovington

Client Sample ID: MW-5 Lab Sample ID: 890-403-7 Date Collected: 03/18/21 13:20

Matrix: Water Date Received: 03/22/21 09:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/28/21 14:32	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/28/21 14:32	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/28/21 14:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/28/21 14:32	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/28/21 14:32	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			03/28/21 14:32	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			03/28/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130					03/28/21 14:32	1
1,4-Difluorobenzene (Surr)	94		70 - 130					03/28/21 14:32	1

Client Sample ID: MW-1 Lab Sample ID: 890-403-8

Date Collected: 03/19/21 09:00 **Matrix: Water**

Date Received: 03/22/21 09:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/28/21 14:56	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/28/21 14:56	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/28/21 14:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/28/21 14:56	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/28/21 14:56	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			03/28/21 14:56	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			03/28/21 14:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	X	70 - 130			•		03/28/21 14:56	1
1,4-Difluorobenzene (Surr)	107		70 - 130					03/28/21 14:56	1

Client Sample ID: MW-3 Lab Sample ID: 890-403-9

Date Collected: 03/19/21 09:30 Date Received: 03/22/21 09:53

Released to Imaging: 8/2/2022 2:57:54 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00291		0.00200	0.000408	mg/L			03/28/21 15:22	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/28/21 15:22	1
Ethylbenzene	0.0226		0.00200	0.000657	mg/L			03/28/21 15:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/28/21 15:22	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/28/21 15:22	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			03/28/21 15:22	1
Total BTEX	0.0255		0.00400	0.000657	mg/L			03/28/21 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	161	X	70 - 130			-		03/28/21 15:22	1
1.4-Difluorobenzene (Surr)	100		70 - 130					03/28/21 15:22	1

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Matrix: Water

Client: Talon/LPE Job ID: 890-403-1 Project/Site: Lovington Deep SDG: Lovington

Client Sample ID: MW-16

Lab Sample ID: 890-403-10 Date Collected: 03/19/21 11:30

Matrix: Water

Date Received: 03/22/21 09:53 Method: 8021B - Volatile Organic Compounds (GC)

Method, 602 1B - Volatile O	rganic Compo	unus (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/28/21 15:48	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/28/21 15:48	1
Ethylbenzene	0.00682		0.00200	0.000657	mg/L			03/28/21 15:48	1
m-Xylene & p-Xylene	0.00805		0.00400	0.000629	mg/L			03/28/21 15:48	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/28/21 15:48	1
Xylenes, Total	0.00805		0.00400	0.000642	mg/L			03/28/21 15:48	1
Total BTEX	0.0149		0.00400	0.000657	mg/L			03/28/21 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	131	X	70 - 130			-		03/28/21 15:48	1
1,4-Difluorobenzene (Surr)	97		70 - 130					03/28/21 15:48	1

Client Sample ID: MW-15 Lab Sample ID: 890-403-11

Date Collected: 03/19/21 10:30 **Matrix: Water**

Date Received: 03/22/21 09:53

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/28/21 16:13	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/28/21 16:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/28/21 16:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/28/21 16:13	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/28/21 16:13	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			03/28/21 16:13	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			03/28/21 16:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	X	70 - 130					03/28/21 16:13	1
1,4-Difluorobenzene (Surr)	107		70 - 130					03/28/21 16:13	1

Surrogate Summary

Job ID: 890-403-1 Client: Talon/LPE Project/Site: Lovington Deep SDG: Lovington

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acc	eptance Limits)
		BFB1	FBZ1	
Lab Sample ID	Client Sample ID	(70-130)	'0-130)	
890-403-1	MW-20	131 X	97	
890-403-2	MW-19	138 X	107	
890-403-3	MW-18	135 X	95	
890-403-4	MW-12	136 X	100	
890-403-5	MW-9	127	104	
890-403-6	MW-4	131 X	91	
890-403-7	MW-5	115	94	
890-403-8	MW-1	132 X	107	
890-403-9	MW-3	161 X	100	
890-403-10	MW-16	131 X	97	
890-403-11	MW-15	141 X	107	
LCS 880-960/34	Lab Control Sample	116	88	
LCSD 880-960/35	Lab Control Sample Dup	118	90	
MB 880-952/5-A	Method Blank	78	84	
	Method Blank	82	84	

DFBZ = 1,4-Difluorobenzene (Surr)

Client: Talon/LPE Job ID: 890-403-1 Project/Site: Lovington Deep SDG: Lovington

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-952/5-A

Matrix: Water Analysis Batch: 960 **Client Sample ID: Method Blank Prep Type: Total/NA**

Prep Batch: 952

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L		03/27/21 11:43	03/27/21 19:00	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L		03/27/21 11:43	03/27/21 19:00	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L		03/27/21 11:43	03/27/21 19:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L		03/27/21 11:43	03/27/21 19:00	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L		03/27/21 11:43	03/27/21 19:00	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L		03/27/21 11:43	03/27/21 19:00	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L		03/27/21 11:43	03/27/21 19:00	1

MB MB

MD MD

Surrogate	%Recovery Qual	ifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78	70 - 130	03/27/21 11:43	03/27/21 19:00	1
1,4-Difluorobenzene (Surr)	84	70 - 130	03/27/21 11:43	03/27/21 19:00	1

Lab Sample ID: MB 880-960/39

Matrix: Water

Analysis Batch: 960

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/28/21 08:07	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/28/21 08:07	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/28/21 08:07	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/28/21 08:07	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/28/21 08:07	1
Xylenes, Total	< 0.00400	U	0.00400	0.00100	mg/L			03/28/21 08:07	1
Total BTEX	<0.00200	U	0.00200	0.00100	ma/L			03/28/21 08:07	1

MB	MB
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82	70 - 130		03/28/21 08:07	1
1.4-Difluorobenzene (Surr)	84	70 - 130		03/28/21 08:07	1

Lab Sample ID: LCS 880-960/34

Matrix: Water

Analysis Batch: 960

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09733		mg/L		97	70 - 130	
Toluene	0.100	0.1038		mg/L		104	70 - 130	
Ethylbenzene	0.100	0.09886		mg/L		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.1973		mg/L		99	70 - 130	
o-Xylene	0.100	0.1148		mg/L		115	70 - 130	

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

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QC Sample Results

Client: Talon/LPE Job ID: 890-403-1 Project/Site: Lovington Deep SDG: Lovington

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

Lab Sample ID: LCSD 880-960/35

Matrix: Water Analysis Batch: 960

r man y or a succession of the	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	_	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09268		mg/L		93	70 - 130	5	20
Toluene	0.100	0.1022		mg/L		102	70 - 130	2	20
Ethylbenzene	0.100	0.09084		mg/L		91	70 - 130	8	20
m-Xylene & p-Xylene	0.200	0.1840		mg/L		92	70 - 130	7	20
o-Xylene	0.100	0.09895		mg/L		99	70 - 130	15	20

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

QC Association Summary

Client: Talon/LPE

Job ID: 890-403-1

Project/Site: Lovington Deep

SDG: Lovington

GC VOA

Prep Batch: 952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-952/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-403-1	MW-20	Total/NA	Water	8021B	
890-403-2	MW-19	Total/NA	Water	8021B	
890-403-3	MW-18	Total/NA	Water	8021B	
890-403-4	MW-12	Total/NA	Water	8021B	
890-403-5	MW-9	Total/NA	Water	8021B	
890-403-6	MW-4	Total/NA	Water	8021B	
890-403-7	MW-5	Total/NA	Water	8021B	
890-403-8	MW-1	Total/NA	Water	8021B	
890-403-9	MW-3	Total/NA	Water	8021B	
890-403-10	MW-16	Total/NA	Water	8021B	
890-403-11	MW-15	Total/NA	Water	8021B	
MB 880-952/5-A	Method Blank	Total/NA	Water	8021B	952
MB 880-960/39	Method Blank	Total/NA	Water	8021B	
LCS 880-960/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-960/35	Lab Control Sample Dup	Total/NA	Water	8021B	

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Job ID: 890-403-1

SDG: Lovington

Client Sample ID: MW-20

Project/Site: Lovington Deep

Client: Talon/LPE

Date Collected: 03/18/21 08:30 Date Received: 03/22/21 09:53 Lab Sample ID: 890-403-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	960	03/28/21 10:43	MR	XM

Lab Sample ID: 890-403-2 **Client Sample ID: MW-19** Date Collected: 03/18/21 09:00 **Matrix: Water**

Date Received: 03/22/21 09:53

Batch Batch Dilution **Batch Prepared Prep Type** Type Method Run Factor Number or Analyzed **Analyst** Lab Total/NA Analysis 8021B 960 03/28/21 11:08 MR XM

Client Sample ID: MW-18 Lab Sample ID: 890-403-3

Date Collected: 03/18/21 10:40 Date Received: 03/22/21 09:53

Matrix: Water

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
l	Total/NA	Analysis	8021B		20	960	03/28/21 11:33	MR	XM

Client Sample ID: MW-12 Lab Sample ID: 890-403-4

Date Collected: 03/18/21 11:00

Date Received: 03/22/21 09:53

Matrix: Water

 $\overline{\mathsf{XM}}$

Batch Batch Dilution Batch Prepared **Prep Type** Method Run Factor Number or Analyzed Type **Analyst** Lab Total/NA Analysis 8021B 960 03/28/21 11:58 MR XM

Client Sample ID: MW-9 Lab Sample ID: 890-403-5 Date Collected: 03/18/21 11:30 **Matrix: Water**

Date Received: 03/22/21 09:53

Batch Batch Dilution Batch Prepared Method Run Factor Number or Analyzed **Prep Type** Type Analyst Lab $\overline{\mathsf{XM}}$ Total/NA Analysis 8021B 960 03/28/21 12:24 MR

Client Sample ID: MW-4 Lab Sample ID: 890-403-6

Date Collected: 03/18/21 12:30

Date Received: 03/22/21 09:53

Total/NA

Batch Dilution Batch **Prepared** Batch **Prep Type** Type Method Run **Factor** Number or Analyzed **Analyst** Lab

Client Sample ID: MW-5 Lab Sample ID: 890-403-7

03/28/21 14:07

MR

960

Date Collected: 03/18/21 13:20 Date Received: 03/22/21 09:53

Analysis

8021B

Batch Batch Dilution Batch **Prepared** Method Prep Type Type Run **Factor** Number or Analyzed Analyst Lab 8021B 03/28/21 14:32 XM Total/NA Analysis MR

Eurofins Xenco, Carlsbad

Matrix: Water

Matrix: Water

Client: Talon/LPE

Job ID: 890-403-1

SDG: Lovington

Client Sample ID: MW-1

Project/Site: Lovington Deep

Date Collected: 03/19/21 09:00 Date Received: 03/22/21 09:53

Lab Sample ID: 890-403-8

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	960	03/28/21 14:56	MR	XM

Client Sample ID: MW-3 Lab Sample ID: 890-403-9 Date Collected: 03/19/21 09:30 **Matrix: Water**

Date Received: 03/22/21 09:53

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	960	03/28/21 15:22	MR	XM

Client Sample ID: MW-16 Lab Sample ID: 890-403-10

Date Collected: 03/19/21 11:30 **Matrix: Water**

Date Received: 03/22/21 09:53

Batch **Batch** Dilution Batch Prepared **Prep Type** Type Method **Factor** Number or Analyzed Run **Analyst** Lab XM Total/NA Analysis 8021B 03/28/21 15:48 MR

Client Sample ID: MW-15 Lab Sample ID: 890-403-11

Date Collected: 03/19/21 10:30 **Matrix: Water**

Date Received: 03/22/21 09:53

Batch **Batch** Dilution Batch **Prepared Prep Type** Method Run **Factor** Number or Analyzed Analyst Type Lab Analysis 8021B 960 03/28/21 16:13 MR XM Total/NA

Laboratory References:

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

Accreditation/Certification Summary

Job ID: 890-403-1 Client: Talon/LPE Project/Site: Lovington Deep SDG: Lovington

Laboratory: Eurofins Xenco, Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-20-21	06-30-21
The following analyte the agency does not	•	ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for whether the state of t
,	•	ort, but the laboratory is r Matrix	not certified by the governing authority. Analyte	This list may include analytes for whether the state of t

Eurofins Xenco, Carlsbad

Method Summary

Client: Talon/LPE

Project/Site: Lovington Deep

Job ID: 890-403-1

SDG: Lovington

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
5030B	Purge and Trap	SW846	XM

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Talon/LPE

Project/Site: Lovington Deep

Job ID: 890-403-1

SDG: Lovington

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
390-403-1	MW-20	Water	03/18/21 08:30	03/22/21 09:53
390-403-2	MW-19	Water	03/18/21 09:00	03/22/21 09:53
390-403-3	MW-18	Water	03/18/21 10:40	03/22/21 09:53
390-403-4	MW-12	Water	03/18/21 11:00	03/22/21 09:53
390-403-5	MW-9	Water	03/18/21 11:30	03/22/21 09:53
390-403-6	MW-4	Water	03/18/21 12:30	03/22/21 09:53
90-403-7	MW-5	Water	03/18/21 13:20	03/22/21 09:53
90-403-8	MW-1	Water	03/19/21 09:00	03/22/21 09:53
90-403-9	MW-3	Water	03/19/21 09:30	03/22/21 09:53
90-403-10	MW-16	Water	03/19/21 11:30	03/22/21 09:53
90-403-11	MW-15	Water	03/19/21 10:30	03/22/21 09:53

Chain of Custody

Phone:	City, State ZIP:	Address: 4	Company Name: To	Project Manager:				s euronns	
5862 MA-365	Artesia NM 88210	408 Texas St	talon LPE	David Adkins			Xenco	TIS Environment Testing	
Email: Dag Kics	City, State ZIP:	Address:	Company Name:	Bill to: (if different)		Hobbs, NM	EL Paso, TX		
Email: and kins @talor/or. Com	5RS# 2002-10312	Attn: Camille Gryant	Pipeline	Plains All American		Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	
Deliverables: EDD ADaPT	Reporting: Level III Level III PST/UST	State of Project:	Program: UST/PST PRP Brownfields	Work Order Comments	www.xenco.com Page			Work Order No: <u>⅓o</u> 3	

RRC

Superfund [

TRRP Level IV

Total 200.7/6010 200.8/6020: RCCA 13PPM Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fe Mm Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn U Hg: 1631/2451/7470 /7471 Potoc Signibute of this document and refinite published between the production of the special control of sharphs and marked sharphs sharph	ITCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni urchase order from client company to Eurofins Xenco, its affiliates and subcontractors, it assigns standard to early responsibility for any losses or expenses incurred by the client if such losses are due to circumstances harge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unignature) Date/Time Rejtiq quished by: (Signature) Date/Time Rejtiq quished by: (Signature)	200	Ruburre	Ryssell
Ni K Se Ag SiO ₂ Na Sr Tl Sn U V : Hg: 1631 / 245.1 / 7470 / 747	A Sb As Ba Be Cd Cr Co Cu Furofins Xenco, its affiliates and subcontracto superness incurred by the client if such losses are d to Eurofins Xenco, but not analyzed. These to Date/Time Religi	(0.9)
VI K Se	A Sb As Ba Be Cd Cr Co Cu Burofins Xenco, its affiliates and subcontracto supenses incurred by the client if such losses are d to Eurofins Xenco, but not analyzed. These to	· (Signature)	Received by: (Signature)	Relinquished by: (Signature)
1g Mn Mo Ni K Se Se Ag Ti U	A Sb As Ba Be Cd Cr Co Cu	d purchase order from client company to sume any responsibility for any losses or a a charge of \$5 for each sample submitte	ment of samples constitutes a val e cost of samples and shall not as fill be applied to each project and	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 nego
ng Mn Mo Ni K Se	֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	TCLP / SPLP 6010 : 8RCR	o be analyzed	Circle Method(s) and Metal(s) to be analyzed
		8RCRA 13PPM Texas 11 Al Sb As Ba Be B		Total 200.7 / 6010 200.8 / 6020:
		10:00	1 / 4	NW-16
		9:30	,	NV-3
		9:00	/ 3/19/2)	767
		136		AWI C
		72:30		MW- 4
		11:30		NW - G
		11:00		1W-12
		10140		MW-18
to: Comille Beyant		9:00	1	MW-19
Email Analyticals	×	8:30 N/A	GW 3/18/211	MW-20
Sample Comments	Cont BT	Time Depth Comp	Matrix Date Sampled	Sample Identification
NaOH+Ascorbic Acid: SAPC	E	perature: 5.4	Corrected Temperature:	Total Containers:
Zn Acetate+NaOH: Zn	X	9	N/A Temperature Reading:	Sample Custody Seals: Yes No
	8	tor	N/A Correction Factor:	Cooler Custody Seals: Yes No
890-403 Chain of Custody NaHSO 4: NABIS	0	D ZUMDO-	No Thermometer ID:	Samples Received Intact: (Yes)
H₃PO.;· HP	2 I	Wet Ice: Yes No	Lemp Blank: Yes No	SAMPLE RECEIPT Lemp
H ₂ SO ₄ : H ₂ NaOH: Na	_	the lab, if received by 4:30pm	10312	- SOOS # 2003-
HCL: HC HNO 3: HN		TAT starts the day received by		
Cool: Cool MeOH: Me		Due Date:		Project Location: Loving 1
None: NO DI Water: H ₂ O	Pres.	X Routine □ Rush	55.	er:
ANALYSIS REQUEST Preservative Codes		Turn Around	n Deep	Project Name: Lovington

eurofins

Xenco

Environment Testing

Project Manager:

ompany Name:

Talon LPE David

Address:

City, State ZIP:

SRS# 2002-10312 Cami Adkins

Bill to: (if different)

Company Name:

Tity, State ZIP:

roject Name:

Lovington Deed

Turn Around

ANALYSIS REQUEST

Preservative Codes

13 14

Chain of Custody

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 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

0) 509-3334	Work Order No:
794-1296	
) 988-3199	S
	www.xenco.com Page 2 of 2
merican	Work Order Comments
	Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
Bryant	State of Project:
10312	Reporting: Level II Level III PST/UST TRRP Level IV
	Deliverables: EDD ADaPT Other:

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		4	3.22.21 096	WA	Joe (The Ball
Date/Time	Received by: (Signature) Da	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Received	ature)	Relinquished by: (Signature)
	ons ol gorilated.	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.	to Eurofins Xenco, its affiliates and or expenses incurred by the client if tted to Eurofins Xenco, but not anal	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 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 circumstance 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 to	ples constitutes a val ples and shall not as I to each project and	nd relinquishment of sam ble only for the cost of san ge of \$85.00 will be applie	otice: Signature of this document a f service. Eurofins Xenco will be llal f Eurofins Xenco. A minimum charg
	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471		A 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb TCLP/SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	8RCRA 13PPM Texas 11 TCLP / SPLP 6010 : 8RC		200.8 / 6020: Metal(s) to be an	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed
lle Bryan	to: Comille						
nolytical	WHO!		3 X	10:30 11/4	3/19/21	38	MWIN
omments	Sample Comments		Cont S	Time Depth Comp	Date Sampled	n Matrix	Sample Identification
Acid: SAPC	NaOH+Ascorbic Acid: SAPC		16	nperature:	Corrected Temperature:		Total Containers:
)H: Zn	Zn Acetate+NaOH: Zn		×	Reading:	Temperature Reading:	Yes No N/A	Sample Custody Seals:
tal	Na ₂ S ₂ O ₃ : NaSO ₃			The Contain	Correction Factor:	Yes No N/A	Cooler Custody Seals:
	NaHSO 4: NABIS		aram	D.	Thermometer ID:	Yes No	Samples Received Intact:
	H ₃ PO ₄ :HP		neter	Wet Ice: Yes No	Yes No	Temp Blank:	SAMPLE RECEIPT
NaOH: Na	H ₂ S0 ₄ : H ₂		rs	the lab, if received by 4:30pm	03/2	-	8
HNO 3: HN	HCI: HC			TAT starts the day received by		ROYBELL	
MeOH: Me	Cool: Cool			Due Date:		vinet on	Project Location:
DI Water: H ₂ O	None: NO		Code	X Routine Rush	y	700376,051,54	Project Number: 700
			,				The second secon

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-403-1 SDG Number: Lovington

List Source: Eurofins Carlsbad Login Number: 403

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	
ls 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	

Eurofins Carlsbad Page 20 of 21 5/4/2021 (Rev. 2) Released to Imaging: 8/2/2022 2:57:54 PM

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Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-403-1 SDG Number: Lovington

Login Number: 403 **List Source: Eurofins Midland** List Creation: 03/24/21 11:37 AM List Number: 2

Creator: Mireles, David

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	

Page 21 of 21 5/4/2021 (Rev. 2)

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-449-1

Laboratory Sample Delivery Group: Lovington NM

Client Project/Site: Lovington Deep

For:

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

Attn: David Adkins

MAMER

Authorized for release by: 4/6/2021 5:19:47 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

·····LINKS ·······

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 8/2/2022 2:57:54 PM

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: Lovington Deep
Laboratory Job ID: 890-449-1
SDG: Lovington NM

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QC Association Summary	10
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Sample Summary	14
Chain of Custody	15
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Definitions/Glossary

Client: Talon/LPE Job ID: 890-449-1 Project/Site: Lovington Deep SDG: Lovington NM

Qualifiers

GC VOA

Qualifier **Qualifier Description** Analyte was not detected at or above the SDL. Х Surrogate recovery exceeds control limits

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 Detection Limit (DoD/DOE)

DL DL, RA, RE, IN

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry)

DLC EDL

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE) LOD LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCI MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

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) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Case Narrative

Client: Talon/LPE Job ID: 890-449-1 Project/Site: Lovington Deep SDG: Lovington NM

Job ID: 890-449-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-449-1

Receipt

The samples were received on 3/29/2021 3:31 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 17.4°C

GC VOA

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

Client: Talon/LPE Job ID: 890-449-1 Project/Site: Lovington Deep SDG: Lovington NM

Client Sample ID: MW-8 Lab Sample ID: 890-449-1 Date Collected: 03/29/21 10:40

Matrix: Water

Date Received: 03/29/21 15:31

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			04/02/21 03:15	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			04/02/21 03:15	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			04/02/21 03:15	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			04/02/21 03:15	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			04/02/21 03:15	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			04/02/21 03:15	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			04/02/21 03:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			•		04/02/21 03:15	1
1,4-Difluorobenzene (Surr)	101		70 - 130					04/02/21 03:15	1

Client Sample ID: mw-11 Lab Sample ID: 890-449-2

Date Collected: 03/29/21 09:55 **Matrix: Water**

Date Received: 03/29/21 15:31

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			04/05/21 13:49	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			04/05/21 13:49	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			04/05/21 13:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			04/05/21 13:49	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			04/05/21 13:49	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			04/05/21 13:49	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			04/05/21 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			_		04/05/21 13:49	1
1,4-Difluorobenzene (Surr)	102		70 - 130					04/05/21 13:49	1

Surrogate Summary

Client: Talon/LPE Job ID: 890-449-1 Project/Site: Lovington Deep SDG: Lovington NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

		BFB1	DFBZ1	· · · · · · · · · · · · · · · · · · ·
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-449-1	MW-8	101	101	
890-449-2	mw-11	107	102	
LCS 880-1096/64	Lab Control Sample	88	104	
LCS 880-1302/3	Lab Control Sample	90	105	
LCSD 880-1096/65	Lab Control Sample Dup	103	108	
LCSD 880-1302/4	Lab Control Sample Dup	99	109	
MB 880-1070/5-A	Method Blank	66 X	85	
MB 880-1096/69	Method Blank	67 X	86	
MB 880-1302/9	Method Blank	73	83	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Eurofins Xenco, Carlsbad

Client: Talon/LPE

Job ID: 890-449-1

SDG: Lovington NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-1070/5-A

Matrix: Water

Analyte Benzene

Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Xylenes, Total

Total BTEX

Analysis Batch: 1096

Project/Site: Lovington Deep

C	lient	Samp	le ID:	Method	Blank

04/01/21 07:34

04/01/21 07:34

04/01/21 07:34

03/30/21 13:10

03/30/21 13:10

03/30/21 13:10

Prep Type: Total/NA

Prep Batch: 1070

1

MB							
Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
U	0.00200	0.000408	mg/L	_	03/30/21 13:10	04/01/21 07:34	
U	0.00200	0.000367	mg/L		03/30/21 13:10	04/01/21 07:34	
U	0.00200	0.000657	mg/L		03/30/21 13:10	04/01/21 07:34	
U	0.00400	0.000629	mg/L		03/30/21 13:10	04/01/21 07:34	
	MB Qualifier U U U U	Qualifier RL U 0.00200 U 0.00200 U 0.00200	Qualifier RL MDL U 0.00200 0.000408 U 0.00200 0.000367 U 0.00200 0.000657	Qualifier RL MDL Unit U 0.00200 0.000408 mg/L U 0.00200 0.000367 mg/L U 0.00200 0.000657 mg/L	Qualifier RL MDL mg/L Unit D U 0.00200 0.000408 mg/L U 0.00200 0.000367 mg/L U 0.00200 0.000657 mg/L	Qualifier RL MDL Unit D Prepared U 0.00200 0.000408 mg/L 03/30/21 13:10 U 0.00200 0.000367 mg/L 03/30/21 13:10 U 0.00200 0.000657 mg/L 03/30/21 13:10	Qualifier RL MDL Unit D Prepared Analyzed U 0.00200 0.000408 mg/L 03/30/21 13:10 04/01/21 07:34 U 0.00200 0.000367 mg/L 03/30/21 13:10 04/01/21 07:34 U 0.00200 0.000657 mg/L 03/30/21 13:10 04/01/21 07:34

0.000642 mg/L

0.00100 mg/L

0.00100 mg/L

MB MB

<0.00200 U

<0.00400 U

<0.00200 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	X	70 - 130	03/30/21 13:10	04/01/21 07:34	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/30/21 13:10	04/01/21 07:34	1

0.00200

0.00400

0.00200

Lab Sample ID: MB 880-1096/69 **Matrix: Water**

Analysis Batch: 1096

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			04/01/21 20:08	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			04/01/21 20:08	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			04/01/21 20:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			04/01/21 20:08	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			04/01/21 20:08	1
Xylenes, Total	< 0.00400	U	0.00400	0.00100	mg/L			04/01/21 20:08	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			04/01/21 20:08	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	X	70 - 130		04/01/21 20:08	1
1,4-Difluorobenzene (Surr)	86		70 - 130		04/01/21 20:08	1

Lab Sample ID: LCS 880-1096/64

Matrix: Water

Analysis Batch: 1096

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

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09503		mg/L		95	70 - 130	
Toluene	0.100	0.09979		mg/L		100	70 - 130	
Ethylbenzene	0.100	0.09228		mg/L		92	70 - 130	
m-Xylene & p-Xylene	0.200	0.1856		mg/L		93	70 - 130	
o-Xylene	0.100	0.1014		mg/L		101	70 - 130	

LCS LCS

Surrogate	%Recovery Qu	alifier Limits	
4-Bromofluorobenzene (Surr)	88	70 - 130	-
1,4-Difluorobenzene (Surr)	104	70 - 130	

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Talon/LPE Job ID: 890-449-1 Project/Site: Lovington Deep SDG: Lovington NM

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

Lab Sample ID: LCSD 880-1096/65

Matrix: Water

Analysis Batch: 1096

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

Spike LCSD LCSD %Rec. RPD Added Limits RPD Limit Analyte Result Qualifier Unit %Rec Benzene 0.100 0.09041 mg/L 90 70 - 130 5 20 Toluene 0.100 0.09880 mg/L 99 70 - 130 20 Ethylbenzene 0.100 70 - 130 0.09219 mg/L 92 20 0 m-Xylene & p-Xylene 0.200 0.1878 94 70 - 130 20 mg/L 0.100 o-Xylene 0.1063 mg/L 106 70 - 130

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-1302/9 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 1302

MB MB

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	J	0.00200	0.000408	mg/L			04/05/21 12:07	1
Toluene	<0.00200 L	J	0.00200	0.000367	mg/L			04/05/21 12:07	1
Ethylbenzene	<0.00200 L	J	0.00200	0.000657	mg/L			04/05/21 12:07	1
m-Xylene & p-Xylene	<0.00400 L	J	0.00400	0.000629	mg/L			04/05/21 12:07	1
o-Xylene	<0.00200 L	J	0.00200	0.000642	mg/L			04/05/21 12:07	1
Xylenes, Total	<0.00400 L	J	0.00400	0.00100	mg/L			04/05/21 12:07	1
Total BTEX	<0.00200 L	J	0.00200	0.00100	mg/L			04/05/21 12:07	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130		04/05/21 12:07	1
1,4-Difluorobenzene (Surr)	83		70 - 130		04/05/21 12:07	1

Lab Sample ID: LCS 880-1302/3

Matrix: Water

Analysis Batch: 1302

-	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08980		mg/L		90	70 - 130	
Toluene	0.100	0.09818		mg/L		98	70 - 130	
Ethylbenzene	0.100	0.09316		mg/L		93	70 - 130	
m-Xylene & p-Xylene	0.200	0.1878		mg/L		94	70 - 130	
o-Xylene	0.100	0.1008		mg/L		101	70 - 130	

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-1302/4

Matrix: Water

Analysis Batch: 1302

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09485		mg/L		95	70 - 130	5	20

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Page 8 of 18

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

QC Sample Results

Client: Talon/LPE Job ID: 890-449-1 Project/Site: Lovington Deep SDG: Lovington NM

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

Lab Sample ID: LCSD 880-1302/4

Matrix: Water

Analysis Batch: 1302

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

RPD
Limit
20
20
20
20

LCSD LCSD

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	109	70 - 130

QC Association Summary

Client: Talon/LPE Job ID: 890-449-1 Project/Site: Lovington Deep SDG: Lovington NM

GC VOA

Prep Batch: 10	70
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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-1070/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 1096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-449-1	MW-8	Total/NA	Water	8021B	
MB 880-1070/5-A	Method Blank	Total/NA	Water	8021B	1070
MB 880-1096/69	Method Blank	Total/NA	Water	8021B	
LCS 880-1096/64	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-1096/65	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 1302

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-449-2	mw-11	Total/NA	Water	8021B	
MB 880-1302/9	Method Blank	Total/NA	Water	8021B	
LCS 880-1302/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-1302/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Lab Chronicle

Client: Talon/LPE Job ID: 890-449-1 Project/Site: Lovington Deep SDG: Lovington NM

Client Sample ID: MW-8 Lab Sample ID: 890-449-1 Date Collected: 03/29/21 10:40

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor Number or Analyzed Analyst Lab Total/NA 8021B 04/02/21 03:15 MR XM Analysis 1096

Lab Sample ID: 890-449-2 Client Sample ID: mw-11

Date Collected: 03/29/21 09:55 **Matrix: Water**

Date Received: 03/29/21 15:31

Date Received: 03/29/21 15:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	1302	04/05/21 13:49	MR	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE Job ID: 890-449-1
Project/Site: Lovington Deep SDG: Lovington NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-20-21	06-30-21
			T104704400-20-21 06-30-21 atory is not certified by the governing authority. This list may include analytes for which	
0 ,	For cortification			.,
the agency does not of	fer certification.			.y molado amalytos to
0 ,	fer certification. Prep Method	Matrix	Analyte	

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Method Summary

Client: Talon/LPE

Project/Site: Lovington Deep

Job ID: 890-449-1

SDG: Lovington NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
5030B	Purge and Trap	SW846	XM

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Talon/LPE

Project/Site: Lovington Deep

Job ID: 890-449-1

SDG: Lovington NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-449-1	MW-8	Water	03/29/21 10:40	03/29/21 15:31	
890-449-2	mw-11	Water	03/29/21 09:55	03/29/21 15:31	

Relinquished by: (Signature)

Phone:

City, State ZIP: Address: Project Manager:

eurofins **Environment Testing** Xenco

Chain of Custody

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 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Signature of this document and relinquishment of samples constitutes service. Eurofins Xenco will be liable only for the cost of samples and shall n Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		MW-11 (M) 3	MW-8 CW 3	Sample Identification Matrix	otal Containers: Cc	Yes NO N/A	ooler Custody Seals: Yes (No N/A Co	amples Received Intact: Yes No Th	SKS# 2002-103	ampler's Name: Koy 8611	roject Location: Louington W	er:	roject Name: Louington Deep	hone: 575-441-4835	ity, State ZIP: Artesia MM	408 7	ompany Name: Talon LPE	roject Manager: D. Adkins	
availid purchase order from cleant company to Eurofic ot assume any responsibility for any losses or expense t and a charge of \$5 for each sample submitted to Europa	8RCR,		1/19/11 4:55 MA 3	3	Date Time Depth Grab/ # of Sampled Sampled Depth Comp Cont	T			Thermometer ID: 2N M-031	the lab, if received by 4:30pm		Due Date:	Y ARoutine Rush Code	7 Turn Around	Email: aadkins &	City, State ZIP:	treet Address: A	Company Name:	Bill to: (if different)	
xe Yanco, Its affiliates and subcontractors. It assigns standard seems in its incurred by the client if such losses are due to circumstances beyond offins Xenco, but not analyzed. These terms will be enforced unless pre	B Cd Ca Cr Co Cu Fe cd Cr Co Cu Pb Mn N		×	X	BT	E		890-449 Chain of Custody	ite.					ANALYSIS REQUEST	talon/pe, com	SRS#2002-10312	Atto: Camille Byant	ipeline	Plains All American	
nd the control previously negotiated.	Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn No Ni Se Ag Tl U Hg: 1631/245.1/7470/7471		to; camille isyant	Email Analyticals	Sample Comments	NaOH+Ascorbic Acid: SAPC		ustody Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO 4: NABIS	H ₂ SO ₄ : H ₂ NaOH: Na		Cool: Cool MeOH: Me	None: NO DI Water: H ₂ O	ST Preservative Codes	Deliverables: EDD	Reporting: Level III Level III PST/UST TRRP Level IV	State of Project:	Program: UST/PST PRP Brownfields RRC Superfund	Work Order Comments	www.xenco.com Page of

MW-8

MW-11

Total Containers:

SAMPLE RECEIPT

Sampler's Name: Project Location: Project Number: Project Name:

Work Order No:

Revised Date: 08/25/2020 Rev. 2020.2

Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-31

**** eurofins** | Environment Testing | America

Chain of Custody Record

FIDIE 0/0-200-0188 Fax. 0/0-200-0188	Sampler			- A					2					3)		
Client Information (Sub Contract Lab)	Campio			Krame	Kramer Jessica				Ç	Caller Hacking No(s)	NO(S).			80 (890-138 1		
Client Contact Shipping/Receiving	Phone			E-Mail jessio	E-Mail jessica kramer@eurofinset.com	@eurofins	et.com		State of New N	State of Origin: New Mexico				Page: Page	Page: Page 1 of 1		
Company: Eurofins Xenco					Accreditations Required (See no NELAP - Texas	s Required exas	(See note)							-068 # dor	Job #: 890-449-1		
Address. 1211 W Florida Ave	Due Date Requested 4/2/2021	<u></u>					Analysis		Requested	<u>a</u>				<u> </u>	Preservation Codes		
City Midland	TAT Requested (days)	/S)				4					_	\dashv) W >	NaOH) Z Z	Hexane None
State Zip: TX, 79701													,	m o c	D Nitric Acid	ρυ(P Na2O4S Q-Na2SO3
Phone: 432-704-5440(Tel)	PO#				a raymonauna								ngarareyar i B	- ω п	MeOH Amchlor	· の ス	Va2S2O3 Va2SO4
Email	WO#:				of the confession of									in and the first	- Ice - Ice J DI Water	< c -	Acetone MCAA
Project Name: Lovinoton Deen	Project #:				1.500 parties		**********						ainer	ロス	EDTA EDA	N	pH 4-5 other (specify)
	SSOW#:				100000000000000000000000000000000000000								ont	olines S			
	SSCW#.				ASD (of co		Other:		
			Sample Type	Matrix (W=water	Filtered rm MS/N /6030B E								Number				
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT	<u> </u>	Per								Tota		Special I	nstruc	Special Instructions/Note:
		X	Preservation Code:	n Code:	X			latific.	Library Apples		Should S	Sandale Sandale	V				
MW-8 (890-449-1)	3/29/21	10 40 Mountain		Water	×								w	(distant)			
mw-11 (890-449-2)	3/29/21	09 55 Mountain		Water	×								ယ				
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Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratory es. 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco.	places the ownership being analyzed the sa	of method anal	yte & accredita shipped back t	ition compliar	ce upon out S Xenco LLC	subcontract laboratory o	laboratorie or other inst	s. This sa ructions wi	mple ship ill be provi	ment is fo ded Any	rwarded	under s to ac	chair	i-of-cu ation	ustody If the lab	poratory	does not currently it to Eurofins Xenco
Possible Hazard Identification					Sampl	Sample Disposal (A	al (A fee	may be	assess	ed if sa	mple	are	retai	ned	ee may be assessed if samples are retained longer than 1 month)	1 mo	7th)
Unconfirmed						Return To Client		П	Dispos	Disposal By Lab	b.	Ιп	$\frac{1}{An}$	thive	Archive For		Months
Deliverable Requested I, II III, IV Other (specify)	Primary Deliverable Rank	bie Rank 2			Specia	Special Instructions/Q0	()	Requirements	ents.								
Empty Kit Relinquished by		Date			Time	1/	5	/	7	Method of Shipment.	Shipme	nt.					
Relinquished by Cas Claybo 3:30.2	Date/Time:		Cc	Company	Rec	Mhhhhhh	J)				Date Jime-	Z-eui	8		10 (N)2	Con	Company
_	Date/Time:		C	Company	Rec	Received by					Date/fime:	ime:				င္ပ	Company
Relinquished by	Date/Time:		C	Company	Rec	Received by:					Date/Time:	ime:				င္ပ	Company
Custody Seals Intact Custody Seal No					Coc	Cooler Temperature(s)	റ്	and Other Remarks	Remarks								

Ver 11/01/2020

Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-449-1 SDG Number: Lovington NM

Login Number: 449 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: 890-449-1

SDG Number: Lovington NM

List Source: Eurofins Midland List Creation: 03/30/21 02:42 PM

Login Number: 449 List Number: 2

Creator: Copeland, Tatiana

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	True	

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-803-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Lovington Deep

For:

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

Attn: David Adkins

MAMER

Authorized for release by: 6/16/2021 3:37:08 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



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www.eurofinsus.com/Env

Released to Imaging: 8/2/2022 2:57:54 PM

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.

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Client: Talon/LPE
Project/Site: Lovington Deep
Laboratory Job ID: 890-803-1
SDG: Lea County NM

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Definitions/Glossary

Client: Talon/LPE Job ID: 890-803-1
Project/Site: Lovington Deep SDG: Lea County NM

Qualifiers

GC VOA

Qualifier Qualifier Description

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: Lovington Deep

Job ID: 890-803-1 SDG: Lea County NM

Job ID: 890-803-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-803-1

Receipt

The samples were received on 6/14/2021 9:47 AM. 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 4.6°C

GC VOA

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

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Job ID: 890-803-1

Client: Talon/LPE Project/Site: Lovington Deep SDG: Lea County NM

Client Sample ID: MW-1 Lab Sample ID: 890-803-1 Date Collected: 06/11/21 13:00 **Matrix: Water** Date Received: 06/14/21 09:47

Method: 8021B - Volatile O Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/15/21 16:16	1
Toluene	< 0.00200	U	0.00200	0.000367	mg/L			06/15/21 16:16	1
Ethylbenzene	< 0.00200	U	0.00200	0.000657	mg/L			06/15/21 16:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/15/21 16:16	1
o-Xylene	< 0.00200	U	0.00200	0.000642	mg/L			06/15/21 16:16	1
Xylenes, Total	< 0.00400	U	0.00400	0.000642	mg/L			06/15/21 16:16	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 16:16	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/15/21 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130					06/15/21 16:16	1
4-Bromofluorobenzene (Surr)	110		70 - 130					06/15/21 16:16	1

Lab Sample ID: 890-803-2 **Client Sample ID: MW-3** Date Collected: 06/11/21 16:00 **Matrix: Water**

Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00163	J	0.00200	0.000408	mg/L			06/15/21 16:41	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/15/21 16:41	1
Ethylbenzene	0.0838		0.00200	0.000657	mg/L			06/15/21 16:41	1
m-Xylene & p-Xylene	0.0921		0.00400	0.000629	mg/L			06/15/21 16:41	1
o-Xylene	0.0150		0.00200	0.000642	mg/L			06/15/21 16:41	1
Xylenes, Total	0.107		0.00400	0.000642	mg/L			06/15/21 16:41	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 16:41	1
Total BTEX	0.193		0.00400	0.000657	mg/L			06/15/21 16:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130			•		06/15/21 16:41	1
4-Bromofluorobenzene (Surr)	121		70 - 130					06/15/21 16:41	1

Client Sample ID: MW-4 Lab Sample ID: 890-803-3 Date Collected: 06/11/21 10:45 **Matrix: Water** Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/15/21 17:05	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/15/21 17:05	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/15/21 17:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/15/21 17:05	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 17:05	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/15/21 17:05	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 17:05	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/15/21 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)			70 - 130			-		06/15/21 17:05	1
4-Bromofluorobenzene (Surr)	116		70 - 130					06/15/21 17:05	1

Client: Talon/LPE

Job ID: 890-803-1 SDG: Lea County NM

Project/Site: Lovington Deep

Client Sample ID: MW-5 Lab Sample ID: 890-803-4 Date Collected: 06/11/21 11:30

Matrix: Water Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/15/21 17:31	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/15/21 17:31	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/15/21 17:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/15/21 17:31	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 17:31	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/15/21 17:31	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 17:31	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/15/21 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130					06/15/21 17:31	1
4-Bromofluorobenzene (Surr)	100		70 - 130					06/15/21 17:31	1

Client Sample ID: MW-8 Lab Sample ID: 890-803-5

Date Collected: 06/11/21 11:45 **Matrix: Water**

Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/15/21 19:12	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/15/21 19:12	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/15/21 19:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/15/21 19:12	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 19:12	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/15/21 19:12	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 19:12	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/15/21 19:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	88		70 - 130			-		06/15/21 19:12	1
4-Bromofluorobenzene (Surr)	126		70 - 130					06/15/21 19:12	1

Client Sample ID: MW-9 Lab Sample ID: 890-803-6 Date Collected: 06/11/21 10:10 **Matrix: Water**

Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/15/21 19:38	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/15/21 19:38	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/15/21 19:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/15/21 19:38	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 19:38	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/15/21 19:38	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 19:38	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/15/21 19:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130					06/15/21 19:38	1
4-Bromofluorobenzene (Surr)	115		70 - 130					06/15/21 19:38	1

Job ID: 890-803-1

Client: Talon/LPE Project/Site: Lovington Deep SDG: Lea County NM

Client Sample ID: MW-11 Lab Sample ID: 890-803-7 Date Collected: 06/11/21 10:20

Matrix: Water Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/15/21 20:03	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/15/21 20:03	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/15/21 20:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/15/21 20:03	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 20:03	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/15/21 20:03	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 20:03	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/15/21 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130					06/15/21 20:03	1
4-Bromofluorobenzene (Surr)	113		70 - 130					06/15/21 20:03	1

Lab Sample ID: 890-803-8 **Client Sample ID: MW-12**

Date Collected: 06/11/21 09:45 **Matrix: Water**

Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000750	J	0.00200	0.000408	mg/L			06/15/21 20:28	1
Toluene	0.000555	J	0.00200	0.000367	mg/L			06/15/21 20:28	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/15/21 20:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/15/21 20:28	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 20:28	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/15/21 20:28	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 20:28	1
Total BTEX	0.00131	J	0.00400	0.000657	mg/L			06/15/21 20:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130			-		06/15/21 20:28	1
4-Bromofluorobenzene (Surr)	119		70 - 130					06/15/21 20:28	1

Client Sample ID: MW-15 Lab Sample ID: 890-803-9 Date Collected: 06/11/21 15:30 **Matrix: Water**

Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/15/21 20:53	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/15/21 20:53	1
Ethylbenzene	0.00263		0.00200	0.000657	mg/L			06/15/21 20:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/15/21 20:53	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 20:53	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/15/21 20:53	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 20:53	1
Total BTEX	0.00263	J	0.00400	0.000657	mg/L			06/15/21 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130			-		06/15/21 20:53	1
4-Bromofluorobenzene (Surr)	112		70 - 130					06/15/21 20:53	1

Client: Talon/LPE Job ID: 890-803-1 Project/Site: Lovington Deep SDG: Lea County NM

Client Sample ID: MW-16

Lab Sample ID: 890-803-10 Date Collected: 06/11/21 14:15

Matrix: Water

Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/15/21 21:18	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/15/21 21:18	1
Ethylbenzene	0.00192	J	0.00200	0.000657	mg/L			06/15/21 21:18	1
m-Xylene & p-Xylene	0.00229	J	0.00400	0.000629	mg/L			06/15/21 21:18	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 21:18	1
Xylenes, Total	0.00229	J	0.00400	0.000642	mg/L			06/15/21 21:18	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 21:18	1
Total BTEX	0.00421		0.00400	0.000657	mg/L			06/15/21 21:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130			-		06/15/21 21:18	1
4-Bromofluorobenzene (Surr)	114		70 - 130					06/15/21 21:18	1

Client Sample ID: MW-18 Lab Sample ID: 890-803-11

Date Collected: 06/11/21 09:15 **Matrix: Water**

Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/15/21 21:44	1
Toluene	0.0175		0.00200	0.000367	mg/L			06/15/21 21:44	1
Ethylbenzene	0.00494		0.00200	0.000657	mg/L			06/15/21 21:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/15/21 21:44	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 21:44	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/15/21 21:44	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 21:44	1
Total BTEX	0.0224		0.00400	0.000657	mg/L			06/15/21 21:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130			-		06/15/21 21:44	1
4-Bromofluorobenzene (Surr)	101		70 - 130					06/15/21 21:44	1

Client Sample ID: MW-19 Lab Sample ID: 890-803-12

Date Collected: 06/11/21 08:15 **Matrix: Water** Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0958		0.00200	0.000408	mg/L			06/15/21 22:09	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/15/21 22:09	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/15/21 22:09	1
m-Xylene & p-Xylene	0.00114	J	0.00400	0.000629	mg/L			06/15/21 22:09	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 22:09	1
Xylenes, Total	0.00114	J	0.00400	0.000642	mg/L			06/15/21 22:09	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 22:09	1
Total BTEX	0.0969		0.00400	0.000657	mg/L			06/15/21 22:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130			-		06/15/21 22:09	1
4-Bromofluorobenzene (Surr)	108		70 - 130					06/15/21 22:09	1

Client Sample Results

Client: Talon/LPE Job ID: 890-803-1
Project/Site: Lovington Deep SDG: Lea County NM

Client Sample ID: MW-20 Lab Sample ID: 890-803-13

. Matrix: Water

Date Collected: 06/11/21 14:30 Date Received: 06/14/21 09:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000427	J	0.00200	0.000408	mg/L			06/15/21 22:34	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/15/21 22:34	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/15/21 22:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/15/21 22:34	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 22:34	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/15/21 22:34	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 22:34	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/15/21 22:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130					06/15/21 22:34	1
4-Bromofluorobenzene (Surr)	110		70 - 130					06/15/21 22:34	1

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Surrogate Summary

Client: Talon/LPE Job ID: 890-803-1
Project/Site: Lovington Deep SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptar	ice Limits)
		DFBZ1	BFB1	
Lab Sample ID	Client Sample ID	(70-130)	70-130)	
890-803-1	MW-1	105	110	
890-803-2	MW-3	104	121	
890-803-3	MW-4	111	116	
890-803-4	MW-5	97	100	
890-803-5	MW-8	88	126	
890-803-6	MW-9	102	115	
890-803-7	MW-11	103	113	
890-803-8	MW-12	103	119	
890-803-9	MW-15	101	112	
890-803-10	MW-16	105	114	
890-803-11	MW-18	91	101	
890-803-12	MW-19	92	108	
890-803-13	MW-20	103	110	
LCS 880-4105/3	Lab Control Sample	98	115	
LCSD 880-4105/4	Lab Control Sample Dup	110	107	
MB 880-4105/8	Method Blank	86	73	

DFBZ = 1,4-Difluorobenzene (Surr)

BFB = 4-Bromofluorobenzene (Surr)

Client: Talon/LPE Job ID: 890-803-1 Project/Site: Lovington Deep SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4105/8

Matrix: Water

Analysis Batch: 4105

Client Sample	ID:	Meth	od Blank	
Pr	ер	Type:	Total/NA	

_	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/15/21 13:19	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/15/21 13:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/15/21 13:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/15/21 13:19	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/15/21 13:19	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/15/21 13:19	1
Methyl tert-butyl ether	<0.0100	U	0.0100	0.00258	mg/L			06/15/21 13:19	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/15/21 13:19	1

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,4-Difluorobenzene (Surr) 86 70 - 130 06/15/21 13:19 4-Bromofluorobenzene (Surr) 73 70 - 130 06/15/21 13:19

Lab Sample ID: LCS 880-4105/3

Matrix: Water

Analysis Batch: 4105

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09731		mg/L	_	97	70 - 130	
Toluene	0.100	0.1083	1	mg/L		108	70 - 130	
Ethylbenzene	0.100	0.1111	1	mg/L		111	70 - 130	
m-Xylene & p-Xylene	0.200	0.1945		mg/L		97	70 - 130	
o-Xylene	0.100	0.09867	1	mg/L		99	70 - 130	
Methyl tert-butyl ether	0.500	0.5164	1	mg/L		103	70 - 130	

LCS LCS Surrogate %Recovery Qualifier Limits 1,4-Difluorobenzene (Surr) 98 70 - 130 4-Bromofluorobenzene (Surr) 115 70 - 130

Lab Sample ID: LCSD 880-4105/4

Matrix: Water

Analysis Batch: 4105

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

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene 0.100 70 - 130 3 0.09988 mg/L 100 20 Toluene 0.100 0.09359 70 - 130 20 mg/L 94 15 Ethylbenzene 0.100 0.1096 mg/L 110 70 - 130 20 m-Xylene & p-Xylene 0.200 0.1957 98 70 - 130 20 mg/L 0.100 0.09940 20 o-Xylene mg/L 99 70 - 130 Methyl tert-butyl ether 0.500 0.5955 mg/L 119 70 - 130 20

	LCSD LCSD						
Surrogate	%Recovery	Qualifier	Limits				
1,4-Difluorobenzene (Surr)	110		70 - 130				
4-Bromofluorobenzene (Surr)	107		70 - 130				

QC Association Summary

Client: Talon/LPE Job ID: 890-803-1
Project/Site: Lovington Deep SDG: Lea County NM

GC VOA

Analysis Batch: 4105

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-803-1	MW-1	Total/NA	Water	8021B	
890-803-2	MW-3	Total/NA	Water	8021B	
890-803-3	MW-4	Total/NA	Water	8021B	
890-803-4	MW-5	Total/NA	Water	8021B	
890-803-5	MW-8	Total/NA	Water	8021B	
890-803-6	MW-9	Total/NA	Water	8021B	
890-803-7	MW-11	Total/NA	Water	8021B	
890-803-8	MW-12	Total/NA	Water	8021B	
890-803-9	MW-15	Total/NA	Water	8021B	
890-803-10	MW-16	Total/NA	Water	8021B	
890-803-11	MW-18	Total/NA	Water	8021B	
890-803-12	MW-19	Total/NA	Water	8021B	
890-803-13	MW-20	Total/NA	Water	8021B	
MB 880-4105/8	Method Blank	Total/NA	Water	8021B	
LCS 880-4105/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-4105/4	Lab Control Sample Dup	Total/NA	Water	8021B	

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Job ID: 890-803-1

SDG: Lea County NM

Client Sample ID: MW-1

Project/Site: Lovington Deep

Client: Talon/LPE

Date Collected: 06/11/21 13:00 Date Received: 06/14/21 09:47

Lab Sample ID: 890-803-1

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
ı	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
-	Total/NA	Analysis	8021B		1	5 mL	5 mL	4105	06/15/21 16:16	MR	XEN MID

Lab Sample ID: 890-803-2 Client Sample ID: MW-3

Date Collected: 06/11/21 16:00 Date Received: 06/14/21 09:47

Batch Batch Dil Initial Final Batch **Prepared Prep Type** Type Method Run **Factor Amount** Amount Number or Analyzed Analyst Lab

Total/NA Analysis 8021B 5 mL 5 mL 4105 06/15/21 16:41 MR XEN MID

Client Sample ID: MW-4 Lab Sample ID: 890-803-3 Date Collected: 06/11/21 10:45 **Matrix: Water**

Date Received: 06/14/21 09:47

Batch Batch Dil Initial Final **Batch** Prepared **Prep Type** Method **Factor** Number or Analyzed Type Run **Amount** Amount **Analyst** Lab Total/NA Analysis 8021B 5 mL 4105 06/15/21 17:05 MR XEN MID 5 mL

Client Sample ID: MW-5 Lab Sample ID: 890-803-4 Date Collected: 06/11/21 11:30 **Matrix: Water**

Date Received: 06/14/21 09:47

Batch Batch Dil Initial Final Batch **Prepared Prep Type** Method Factor **Amount** Amount Number or Analyzed Type Run Analyst Lab Total/NA Analysis 8021B 5 mL 4105 06/15/21 17:31 MR XEN MID 5 mL

Client Sample ID: MW-8 Lab Sample ID: 890-803-5

Date Collected: 06/11/21 11:45 Date Received: 06/14/21 09:47

Batch Batch Dil Initial Final Batch Prepared Method Run Factor Amount Amount Number or Analyzed **Prep Type** Type Analyst Lab Total/NA Analysis 8021B 5 mL 5 mL 4105 06/15/21 19:12 MR XEN MID

Lab Sample ID: 890-803-6 Client Sample ID: MW-9

Date Collected: 06/11/21 10:10

Date Received: 06/14/21 09:47

Dil Initial Final Batch Batch Batch **Prepared Prep Type** Type Method Run **Factor** Amount Amount Number or Analyzed **Analyst** Lab 06/15/21 19:38 MR Total/NA Analysis 8021B 5 mL 5 mL 4105 XEN MID

Lab Sample ID: 890-803-7 Client Sample ID: MW-11 **Matrix: Water**

Date Collected: 06/11/21 10:20 Date Received: 06/14/21 09:47

Batch Batch Dil Initial Final **Batch** Prepared Method **Prep Type** Type Run **Factor Amount** Amount Number or Analyzed Analyst Lab 8021B 4105 06/15/21 20:03 MR Total/NA Analysis 5 mL 5 mL XEN MID

Client Sample ID: MW-12

Project/Site: Lovington Deep

Client: Talon/LPE

Date Collected: 06/11/21 09:45 Date Received: 06/14/21 09:47

Lab Sample ID: 890-803-8

Matrix: Water

Matrix: Water

Matrix: Water

		Batch	Batch		Dil	Initial	Final	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
L	Total/NA	Analysis	8021B		1	5 mL	5 mL	4105	06/15/21 20:28	MR	XEN MID

Client Sample ID: MW-15 Lab Sample ID: 890-803-9

Date Collected: 06/11/21 15:30 Date Received: 06/14/21 09:47

Γ											
	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B			5 ml	5 ml	4105	06/15/21 20:53	MR	XEN MID	•

Lab Sample ID: 890-803-10 **Client Sample ID: MW-16**

Date Collected: 06/11/21 14:15 Date Received: 06/14/21 09:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B			5 mL	5 mL	4105	06/15/21 21:18	MR	XEN MID

Client Sample ID: MW-18 Lab Sample ID: 890-803-11 Date Collected: 06/11/21 09:15 **Matrix: Water**

Date Received: 06/14/21 09:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4105	06/15/21 21:44	MR	XEN MID

Lab Sample ID: 890-803-12 Client Sample ID: MW-19 **Matrix: Water**

Date Collected: 06/11/21 08:15 Date Received: 06/14/21 09:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B			5 mL	5 mL	4105	06/15/21 22:09	MR	XEN MID

Client Sample ID: MW-20 Lab Sample ID: 890-803-13 Date Collected: 06/11/21 14:30 **Matrix: Water**

Date Received: 06/14/21 09:47

_											
	Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B			5 ml		4105	06/15/21 22:34	MR	XEN MID	

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE Job ID: 890-803-1 Project/Site: Lovington Deep SDG: Lea County NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-20-21	06-30-21
The following analyte	s are included in this reno	rt but the laboratory is r	not certified by the governing authority	This list may include analytes for w
The following analyte the agency does not		rt, but the laboratory is r	not certified by the governing authority.	This list may include analytes for w
0 ,		rt, but the laboratory is r Matrix	not certified by the governing authority. Analyte	This list may include analytes for w

Method Summary

Client: Talon/LPE

Project/Site: Lovington Deep

Job ID: 890-803-1

SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	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.

Laboratory References:

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

Sample Summary

Client: Talon/LPE

Project/Site: Lovington Deep

Job ID: 890-803-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-803-1	MW-1	Water	06/11/21 13:00	06/14/21 09:47	
890-803-2	MW-3	Water	06/11/21 16:00	06/14/21 09:47	
890-803-3	MW-4	Water	06/11/21 10:45	06/14/21 09:47	
890-803-4	MW-5	Water	06/11/21 11:30	06/14/21 09:47	
890-803-5	MW-8	Water	06/11/21 11:45	06/14/21 09:47	
890-803-6	MW-9	Water	06/11/21 10:10	06/14/21 09:47	
890-803-7	MW-11	Water	06/11/21 10:20	06/14/21 09:47	
890-803-8	MW-12	Water	06/11/21 09:45	06/14/21 09:47	
890-803-9	MW-15	Water	06/11/21 15:30	06/14/21 09:47	
890-803-10	MW-16	Water	06/11/21 14:15	06/14/21 09:47	
890-803-11	MW-18	Water	06/11/21 09:15	06/14/21 09:47	
890-803-12	MW-19	Water	06/11/21 08:15	06/14/21 09:47	
890-803-13	MW-20	Water	06/11/21 14:30	06/14/21 09:47	

otice: Signature of this document and relinquishment of samples constitutes a valid purchas

rcle Method(s) and Metal(s) to be analyzed

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM

2:15 3:30 9:45 10:20

10:10

11:45 11:30

10:45

4:00 1:00

TCLP / SPLP

MW-16 MW-15 MW-12 MW-11 MW-9 MW-8 MW-5 MW-4 MW-3 MW-1

service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any Eurofins Xenco. A minimum charge of \$85,00 will be applied to each project and a charge

Relinquished by: (Signature)

Corre

7/4

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

614.21 Date/Time

8

Revised Date: 08/25/2020 Rev. 2020.2

Received by: (Signature)

eurofins

Xenco

Environment Testing

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Midland, TX (4 EL Paso, TX	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Work Order No:	
		www.xenco.com ² age 1 of 2	
o: (if different)	Plains All American Pipeline	Work Order Comments	
pany Name:	Attn: Camille Bryant	Program: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐	
ess:	SRS # 2002-10312	State of Project:	
State ZIP:		Reporting: Level II Level III PST/UST TRRP L Level IV	
kins@talonlpe.com	om	Deliverables: EDD ADaPT Other:	
	ANALYSIS REQUEST	QUEST Preservative Codes	
Rush Pres.		None: NO DI Water: H ₂ O	
		⊻	
received by by 4:30pm		H ₂ SO ₄ : H ₂ NaOH: Na	
rameter		H₃PO₄; HP NaHSO₄; NABIS	2
1/2	890-803 Chain of Custody	Custody Zn Acetate+NaOH: Zn	of 2
40		NaOH+Ascorbic Acid: SAPC	e 18
oth Grab/ # of Cont	× m ¬	Sample Comments	Page
ω		Email Analytical	
-		То:	
		CJBryant@paalp.com	
		ALGroves@paalp.com	
		MaOchoa@paalp.com	
Teyas 11 Al s	Al Sh As Ba Be B Cd Ca Cr Co Cu Fe Pb Mo Mn Mo Ni K	b Ma Mn Ma Ni K Se Ag SiO, Na Sr Ti Sn II V Zn	
010: 8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U		
e order from client c	e order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	rs. It assigns standard terms and conditions	
of \$5 for each sample	of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	rms will be enforced unless previously negotiated.	

SAMPLE RECEIPT

Fotal Containers:

Sample Identification

GW W Matrix

6/11/2021 Sampled

Z De Cooler Custody Seals:

Samples Received Intact:

N_O

Thermometer ID:

Ves No | Wet Ice.

N/A N/A

Correction Factor: Temperature Reading:

Corrected Temperature:

Date

Time

Sampled

Sample Custody Seals:

Yes Nd Yes Yes Temp Blank: SRS# 2002-10312

Sampler's Name:

Project Location:

Project Number: Project Name:

SRS# 2007-10312

Lovington Deep

Lea County, NM

Due Date: **X**Routine

TAT starts the day the lab, if received

R. Bell

Phone:

575.746.8768 Artesia, NM 88210 408 W. Texas Ave Talon LPE D. Adkins

Email: dad Turn Aro

City, State ZIP Address: Company Name: Project Manager:

eurofins Environment Testing

Kenco

City, State ZIP:

Artesia, NM 88210 408 W. Texas Ave.

City, State ZIP:

Company Name: Bill to: (if different)

Attn: Camille Bryant Plains All American Pipeline

SRS # 2002-10312

575.746.8768

Project Manager: Company Name:

D. Adkins

Talon LPE

Chain of Custody

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 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Work Order No:

www.xenco.com Page2_ of2_
Work Order Comments
rogram: UST/PST ☐ PRP☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Phone: 575.746.8768	Email: da	Email: dadkins@talonlpe.com		Deliverables: EDD ADAF1	Cilei
Project Name: Lovington Deep	Turn Around	ound	ANALYSIS REQUI	UEST	Preservative Codes
# 585 #	Routine	Rush Pres.			None: NO DI Water: H ₂ O
Project Location: Lea County, NM	Due Date:				Cool: Cool MeOH: Me
		y received by			HCL: HC HNO3: HN
PO#: SRS# 2002-10312					H ₂ S0 ₄ : H ₂ NaOH: Na
SAMPLE RECEIPT Temp Blank: \	res) No Wet Ice:	Yes No			H ₃ PO ₄ : HP
	er ID:				NaHSO ₄ : NABIS
Yes No N/A	Correction Factor:	Pa			Na ₂ S ₂ O ₃ : NaSO ₃
N/A	Temperature Reading:	2			Zn Acetate+NaOH: Zn
Total Containers: Co	Corrected Temperature:	8		-	NaOH+Ascorbic Acid: SAPC
Sample Identification Matrix S	Date Time Du Sampled	Depth Grab/ # of E			Sample Comments
MW-18 GW 6/-	6/11/2021 9:15 N/A	3 X			Email Analytical
MW-19	8:15				То:
MW-20	2:30				CJBryant@paalp.com
					ALGroves@paalp.com
					MaOchoa@paalp.com
Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM	Texas 11 Al Sb As Ba	8RCRA 13PPM Texas 11 AISb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mi	Mg Mn Mo Ni K Se Ag SiO ₂	Ag SiO ₂ Na Sr Tl Sn H V Zn
<u> </u>	TCLP / SPLP 6010:	8RCRA Sb As	Ba Be Cd Cr Co Cu Pb Mn Mo Ni	Ni Se Ag TI U Hg: 1631	Hg: 1631 / 245.1 / 7470 / 7471
otice: 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 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 for the cost of samples and a charge of \$5 for each sample submitted to Furofins Xenco. A minimum charge of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Furofins Xenco. In order to the sample submitted to Furofins Xenco.	mples constitutes a valid purch samples and shall not assume a ed to each project and a charge	ase order from client company to Eur ny responsibility for any losses or ex of \$5 for each sample submitted to t	ofins Xenco, its affiliates and subcontractors. It subcontractors. It such losses are distinctions Xenco, but not analyzed. These forms will	It assigns standard terms and conditions e due to circumstances beyond the control will be enforced unless previously negotiate	3d.
Relinquished by: (Signature)	Received by: (Signature)) Date/Time	Relinquished by: (Signature)	Received by: (Signature)	ure) Date∕Time
John Marky	a have	6-14 85	55 AM 2 Atmas &	(Dec (12)	16.14.2 094
1	,		4		

Revised Date: 08/25/2020 Rev. 2020.2

1089 N Canal St.

Eurofins Xenco, Carlsbad

Environment Testing America

Chain of Custody Record

Carlsbad NM 88220 Phone 575-088-3100 Eav: 575-088-3100	_	i alli	ilalii ol custody Record	ody z	ecor	2									America
	Sampler:			Lab PM Krame	Lab PM Kramer Jessica	8			Can	Carrier Tracking No(s).	ng No(s).		8 0	COC No:	
	Phone:			E-Mail jessic	a krame	@eurof	inset.com		Stat	State of Origin. New Mexico			P B	Page: Page 1 of 2	
Company: Eurofins Xenco					Accreditations Requ	ons Requi	Accreditations Required (See note) NELAP - Texas	te)	-		ľ		_{였 등}	Job #: 890-803-1	
Address: 1211 W Florida Ave ,	Due Date Requested 6/18/2021	a					An	alysis	Requested	sted			- 2	Preservation Codes	- 1
City Midland	TAT Requested (days)	ys)										\dashv	<u> </u>	HCL NaOH	M Hexane N None
State, Ztp: TX, 79701												·	m D (Nitric Acid	P Na2O4S Q Na2SO3
Phone 432-704-5440(Tel)	PO#:)				******				ר פ	MeOH Amchlor	R Na2S2O3 S-H2SO4
Email	WO#				o)								_ _	Ice DI Water	U Acetone V MCAA
Project Name: Lovington Deep	Project #: 89000047				s or h								ロス	EDTA EDA	W pH 4-5 Z other (specify)
Site:	SSOW#:				D (Ye									Other:	
			Sample		MS/MS								nber o		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Type (C=comp, G=grab) _{B1}	(W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Fil Perform 3021B/50								otal Nu	enecial Inc	
1000 000 A	X	1300	- 800	on Code:	X								X		
MAN 2 (000 000 0)	6/11/21	Mountain 16 00		Water	 							-	ω		
MW / (800 803 3)	2 2	Mountain 10 45		440[0]	>	<u> </u>			-			-	ú		
MW-5 (890-803-4)	6/11/01	Mountain 11 30		Water								+	, c		
MW-8 (890-803-5)	6/11/21	Mountain 11 45		Water	< ;	\ ?							3 6	***************************************	
MW-9 (890-803-6)	6/11/21	10 10		Water	* *	1				1	1		ا در		
MW-11 (890-803-7)	6/11/21	10 20 Mountain		Water		×						-	ယ		
MW-12 (890-803-8)	6/11/21	09 45 Mountain		Water	×							\dashv	w		
MW-15 (890-803-9)	6/11/21	15 30 Mountain		Water	v	×							w		
Note: Since laboratory accreditations are subject to change, Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	places the ownership being analyzed the sa arn the signed Chain o	of method, and amples must be of Custody attes	alyte & accredit shipped back sting to said co	ation compliar to the Eurofin: mplicance to E	ce upon ou 3 Xenco LL: urofins Xer	t subcontr C laborato	act laboratory ry or other i	ries. This	s sample si s will be pr	nipment is rovided. A	forwarde	d under cl	nain-of-c editation	ustody If the labors status should be br	atory does not currently ought to Eurofins Xenco
Possible Hazard Identification Unconfirmed					Samp	le Disp	Sample Disposal (A t	ee may	be asse	assessed if san	sample	s are re	tained	ee may be assessed if samples are retained longer than 1	month)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank	ıble Rank 2			Speci	al Instru	Special Instructions/@C	Requirements	ements		\				
Empty Kit Relinquished by		Date			Time				N	Method	Method of Shipment:	ent:			
Relinquished by (VX)	Date/Time:	The state of the s	0 0	Company	28	Served by		M			Dete/Tinae:		5	(W) in	Company
Remiquisied by	Date/lime:		Q	Company	- R	deillectas		2		1	Date/Time	ime.	4	, , , , , , , , , , , , , , , , , , , ,	Company
Relinquished by	Date/Time:		O	Company	70	Received by:					Date/Time:	ime:			Company
Custody Seals Intact Custody Seal No ∆ Yes ∆ No					ဂ္ဂ	oler Temp	Cooler Temperature(s)	C and Oth	and Other Remarks	Š	ŀ				

Ver: 11/01/2020

6/16/2021

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-803-1

SDG Number: Lea County NM

List Source: Eurofins Xenco, Carlsbad

Login Number: 803 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: 890-803-1

SDG Number: Lea County NM

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 06/15/21 11:40 AM

Creator: Copeland, Tatiana

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	True	

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<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1224-1

Laboratory Sample Delivery Group: Lea County NM

Client Project/Site: Lovington Deep

For:

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

Attn: David Adkins

KRAMER

Authorized for release by: 9/14/2021 1:58:48 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

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Released to Imaging: 8/2/2022 2:57:54 PM

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.

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Client: Talon/LPE
Project/Site: Lovington Deep
Laboratory Job ID: 890-1224-1
SDG: Lea County NM

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Definitions/Glossary

Client: Talon/LPE Job ID: 890-1224-1 Project/Site: Lovington Deep 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.
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

Quality Control QC

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: 890-1224-1
Project/Site: Lovington Deep SDG: Lea County NM

Job ID: 890-1224-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1224-1

Receipt

The samples were received on 9/7/2021 3:22 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 8.2°C

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: MW-18 (890-1224-11), MW-19 (890-1224-12), MW-20 (890-1224-13) and (LCSD 880-7813/4). Evidence of matrix interferences is not obvious.

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

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Matrix: Water

Lab Sample ID: 890-1224-1

09/12/21 18:58

Lab Sample ID: 890-1224-2

Matrix: Water

Client: Talon/LPE Job ID: 890-1224-1
Project/Site: Lovington Deep SDG: Lea County NM

Client Sample ID: MW-1

Date Collected: 09/07/21 12:00 Date Received: 09/07/21 15:22

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/12/21 18:58	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/12/21 18:58	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/12/21 18:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/12/21 18:58	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/12/21 18:58	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/12/21 18:58	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/12/21 18:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			_		09/12/21 18:58	1

70 - 130

Client Sample ID: MW-3

Date Collected: 09/07/21 09:05 Date Received: 09/07/21 15:22

Sample Depth N/A

1,4-Difluorobenzene (Surr)

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/12/21 19:26	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/12/21 19:26	1
Ethylbenzene	0.0561		0.00200	0.000657	mg/L			09/12/21 19:26	1
m-Xylene & p-Xylene	0.0623		0.00400	0.000629	mg/L			09/12/21 19:26	1
o-Xylene	0.00949		0.00200	0.000642	mg/L			09/12/21 19:26	1
Xylenes, Total	0.0718		0.00400	0.000642	mg/L			09/12/21 19:26	1
Total BTEX	0.128		0.00400	0.000657	mg/L			09/12/21 19:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			_		09/12/21 19:26	1
1,4-Difluorobenzene (Surr)	106		70 - 130					09/12/21 19:26	1

Client Sample ID: MW-4

Date Collected: 09/07/21 13:20

Lab Sample ID: 890-1224-3

Matrix: Water

Date Received: 09/07/21 15:22

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/12/21 19:54	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/12/21 19:54	1
Ethylbenzene	0.00157	J	0.00200	0.000657	mg/L			09/12/21 19:54	1
m-Xylene & p-Xylene	0.00179	J	0.00400	0.000629	mg/L			09/12/21 19:54	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/12/21 19:54	1
Xylenes, Total	0.00179	J	0.00400	0.000642	mg/L			09/12/21 19:54	1
Total BTEX	0.00336	J	0.00400	0.000657	mg/L			09/12/21 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			-		09/12/21 19:54	1
1,4-Difluorobenzene (Surr)	107		70 - 130					09/12/21 19:54	1

Client Sample ID: MW-5 Lab Sample ID: 890-1224-4

Date Collected: 09/07/21 13:15 Matrix: Water Date Received: 09/07/21 15:22

Sample Depth: N/A

Method: 8021B - Volatile Organ	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/12/21 20:21	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/12/21 20:21	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/12/21 20:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/12/21 20:21	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/12/21 20:21	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/12/21 20:21	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/12/21 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			-		09/12/21 20:21	1
1,4-Difluorobenzene (Surr)	109		70 - 130					09/12/21 20:21	1

Client Sample ID: MW-8 Lab Sample ID: 890-1224-5

Date Collected: 09/07/21 09:45 Matrix: Water

Date Received: 09/07/21 15:22

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/12/21 20:49	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/12/21 20:49	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/12/21 20:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/12/21 20:49	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/12/21 20:49	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/12/21 20:49	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/12/21 20:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			-		09/12/21 20:49	1
1,4-Difluorobenzene (Surr)	111		70 - 130					09/12/21 20:49	1

Lab Sample ID: 890-1224-6 **Client Sample ID: MW-9**

Date Collected: 09/07/21 09:30 Date Received: 09/07/21 15:22

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/12/21 21:16	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/12/21 21:16	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/12/21 21:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/12/21 21:16	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/12/21 21:16	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/12/21 21:16	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/12/21 21:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			-		09/12/21 21:16	1
1,4-Difluorobenzene (Surr)	112		70 - 130					09/12/21 21:16	1

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Matrix: Water

Client Sample ID: MW-11 Lab Sample ID: 890-1224-7

Date Collected: 09/07/21 08:45

Date Received: 09/07/21 15:22

Matrix: Water

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/12/21 21:44	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/12/21 21:44	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/12/21 21:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/12/21 21:44	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/12/21 21:44	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/12/21 21:44	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/12/21 21:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			_		09/12/21 21:44	1
1,4-Difluorobenzene (Surr)	108		70 - 130					09/12/21 21:44	1

Client Sample ID: MW-12 Lab Sample ID: 890-1224-8

Date Collected: 09/07/21 09:00 Matrix: Water

Date Received: 09/07/21 15:22

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000614	J	0.00200	0.000408	mg/L			09/12/21 22:11	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/12/21 22:11	1
Ethylbenzene	0.000673	J	0.00200	0.000657	mg/L			09/12/21 22:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/12/21 22:11	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/12/21 22:11	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/12/21 22:11	1
Total BTEX	0.00129	J	0.00400	0.000657	mg/L			09/12/21 22:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			-		09/12/21 22:11	1

1,4-Diffluorobenzene (Surr) 105 70 - 130 09/12/21 22:11 1

Client Sample ID: MW-15 Lab Sample ID: 890-1224-9

Date Collected: 09/07/21 10:10 Date Received: 09/07/21 15:22

Released to Imaging: 8/2/2022 2:57:54 PM

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/12/21 22:39	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/12/21 22:39	1
Ethylbenzene	0.00679		0.00200	0.000657	mg/L			09/12/21 22:39	1
m-Xylene & p-Xylene	0.000719	J	0.00400	0.000629	mg/L			09/12/21 22:39	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/12/21 22:39	1
Xylenes, Total	0.000719	J	0.00400	0.000642	mg/L			09/12/21 22:39	1
Total BTEX	0.00751		0.00400	0.000657	mg/L			09/12/21 22:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			-		09/12/21 22:39	1
1,4-Difluorobenzene (Surr)	112		70 - 130					09/12/21 22:39	1

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890-1224-9 Matrix: Water

Client Sample ID: MW-16 Lab Sample ID: 890-1224-10

Date Collected: 09/07/21 11:10 **Matrix: Water** Date Received: 09/07/21 15:22

Sample Depth: N/A

Method: 8021B - Volatile Orga	nic Compounds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/12/21 23:05	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/12/21 23:05	1
Ethylbenzene	0.00151	J	0.00200	0.000657	mg/L			09/12/21 23:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/12/21 23:05	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/12/21 23:05	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/12/21 23:05	1
Total BTEX	0.00151	J	0.00400	0.000657	mg/L			09/12/21 23:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			_		09/12/21 23:05	1
1,4-Difluorobenzene (Surr)	112		70 - 130					09/12/21 23:05	1

Client Sample ID: MW-18 Lab Sample ID: 890-1224-11

Date Collected: 09/07/21 11:30 Matrix: Water

Date Received: 09/07/21 15:22

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000698	J	0.00200	0.000408	mg/L			09/13/21 18:09	1
Toluene	0.00218		0.00200	0.000367	mg/L			09/13/21 18:09	1
Ethylbenzene	0.00494		0.00200	0.000657	mg/L			09/13/21 18:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/13/21 18:09	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/13/21 18:09	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/13/21 18:09	1
Total BTEX	0.00782		0.00400	0.000657	mg/L			09/13/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130			_		09/13/21 18:09	1

Lab Sample ID: 890-1224-12 **Client Sample ID: MW-19 Matrix: Water**

70 - 130

Date Collected: 09/07/21 11:45 Date Received: 09/07/21 15:22

99

Sample Depth: N/A

1,4-Difluorobenzene (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.110		0.00200	0.000408	mg/L			09/13/21 18:35	1
Toluene	0.00112	J	0.00200	0.000367	mg/L			09/13/21 18:35	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/13/21 18:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/13/21 18:35	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/13/21 18:35	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/13/21 18:35	1
Total BTEX	0.111		0.00400	0.000657	mg/L			09/13/21 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			-		09/13/21 18:35	1
1,4-Difluorobenzene (Surr)	103		70 - 130					09/13/21 18:35	1

09/13/21 18:09

Matrix: Water

Client Sample Results

Client: Talon/LPE Job ID: 890-1224-1
Project/Site: Lovington Deep SDG: Lea County NM

Client Sample ID: MW-20 Lab Sample ID: 890-1224-13

Date Collected: 09/07/21 12:00
Date Received: 09/07/21 15:22

Sample Depth: N/A

Method: 8021B - Volatile Orga	nic Compounds ((GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/13/21 14:40	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/13/21 14:40	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/13/21 14:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/13/21 14:40	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/13/21 14:40	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/13/21 14:40	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/13/21 14:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	141	S1+	70 - 130			_		09/13/21 14:40	1
1,4-Difluorobenzene (Surr)	95		70 - 130					09/13/21 14:40	1

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Surrogate Summary

Client: Talon/LPE Job ID: 890-1224-1
Project/Site: Lovington Deep SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-1224-1	MW-1	110	95	
390-1224-1 MS	MW-1	110	122	
390-1224-1 MSD	MW-1	101	112	
390-1224-2	MW-3	106	106	
390-1224-3	MW-4	102	107	
390-1224-4	MW-5	103	109	
390-1224-5	MW-8	107	111	
390-1224-6	MW-9	99	112	
390-1224-7	MW-11	102	108	
390-1224-8	MW-12	108	105	
390-1224-9	MW-15	106	112	
390-1224-10	MW-16	121	112	
390-1224-11	MW-18	133 S1+	99	
390-1224-12	MW-19	140 S1+	103	
390-1224-13	MW-20	141 S1+	95	
390-1224-13 MS	MW-20	118	110	
390-1224-13 MSD	MW-20	114	93	
CS 880-7784/3	Lab Control Sample	96	110	
CS 880-7813/3	Lab Control Sample	125	107	
CSD 880-7784/4	Lab Control Sample Dup	101	108	
CSD 880-7813/4	Lab Control Sample Dup	138 S1+	107	
ИВ 880-7784/8	Method Blank	73	96	
MB 880-7813/8	Method Blank	76	100	

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7784/8

Matrix: Water

Analysis Batch: 7784

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 0.000408 mg/L 09/12/21 18:31 Toluene <0.00200 U 0.00200 0.000367 mg/L 09/12/21 18:31 Ethylbenzene <0.00200 U 0.00200 0.000657 mg/L 09/12/21 18:31 m-Xylene & p-Xylene <0.00400 U 0.00400 0.000629 mg/L 09/12/21 18:31 o-Xylene <0.00200 U 0.00200 0.000642 mg/L 09/12/21 18:31 Xylenes, Total <0.00400 U 0.00400 0.000642 mg/L 09/12/21 18:31 Total BTEX <0.00400 U 0.00400 0.000657 mg/L 09/12/21 18:31

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 70 - 130 4-Bromofluorobenzene (Surr) 73 09/12/21 18:31 1,4-Difluorobenzene (Surr) 96 70 - 130 09/12/21 18:31

Lab Sample ID: LCS 880-7784/3

Matrix: Water

Analysis Batch: 7784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit %Rec Benzene 0.100 0.1006 mg/L 101 70 - 130 Toluene 0.100 0.09465 mg/L 95 70 - 130 0.100 0.09143 91 Ethylbenzene mg/L 70 - 130 m-Xylene & p-Xylene 0.200 0.1859 mg/L 93 70 - 130 o-Xylene 0.100 0.09588 mg/L 96 70 - 130

LCS LCS

Surrogate	%Recovery Quali	ifier Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1.4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: LCSD 880-7784/4

Matrix: Water

Analysis Batch: 7784

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

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1038		mg/L		104	70 - 130	3	20
Toluene	0.100	0.09755		mg/L		98	70 - 130	3	20
Ethylbenzene	0.100	0.09418		mg/L		94	70 - 130	3	20
m-Xylene & p-Xylene	0.200	0.1918		mg/L		96	70 - 130	3	20
o-Xylene	0.100	0.09858		mg/L		99	70 - 130	3	20

	LCSD	LUSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1224-1 MS

Matrix: Water

Analysis Batch: 7784

•	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.1118		mg/L		112	70 - 130	

Eurofins Xenco, Carlsbad

Client Sample ID: MW-1

Prep Type: Total/NA

9/14/2021

Client: Talon/LPE Job ID: 890-1224-1 Project/Site: Lovington Deep SDG: Lea County NM

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

Lab Sample ID: 890-1224-1 MS

Matrix: Water

Client Sample ID: MW-1 Prep Type: Total/NA

Analysis Batch: 7784

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Toluene	<0.00200	U	0.100	0.1057		mg/L		106	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.1028		mg/L		103	70 - 130	
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2096		mg/L		105	70 - 130	
o-Xylene	<0.00200	U	0.100	0.1083		mg/L		108	70 - 130	

MS MS

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	122	70 - 130

Lab Sample ID: 890-1224-1 MSD

Matrix: Water

Analysis Batch: 7784

Client Sample ID: MW-1

Prep Type: Total/NA

Sample Sample MSD MSD %Rec. RPD Spike Result Qualifier Limit Analyte Added Result Qualifier Unit %Rec Limits **RPD** Benzene <0.00200 0.100 0.1024 102 70 - 130 25 mg/L 9 Toluene <0.00200 U 0.100 0.09652 97 70 - 130 25 mg/L 9 Ethylbenzene <0.00200 U 0.100 0.09378 70 - 130 25 mg/L 94 0.200 m-Xylene & p-Xylene <0.00400 U 0.1911 96 70 - 130 25 mg/L 9 o-Xylene <0.00200 U 0.100 0.09934 mg/L 70 - 130

MSD MSD

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	101	70 - 130
1,4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: MB 880-7813/8

Matrix: Water

Analysis Batch: 7813

Client Sample ID: Method Blank

Prep Type: Total/NA

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Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/13/21 14:13	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/13/21 14:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/13/21 14:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/13/21 14:13	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/13/21 14:13	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/13/21 14:13	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/13/21 14:13	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130		09/13/21 14:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130		09/13/21 14:13	1

Lab Sample ID: LCS 880-7813/3

Matrix: Water

Analysis Batch: 7813

		Client Sample ID: Lab Control Sample Prep Type: Total/NA
Spike	LCS LCS	%Rec.

Analyte Added Result Qualifier Unit Limits %Rec Benzene 0.100 0.1075 mg/L 108 70 - 130 0.100 Toluene 0.1176 mg/L 118 70 - 130

Client: Talon/LPE Job ID: 890-1224-1 Project/Site: Lovington Deep SDG: Lea County NM

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

Lab Sample ID: LCS 880-7813/3

Lab Sample ID: LCSD 880-7813/4

Matrix: Water

Matrix: Water

Analysis Batch: 7813

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Ethylbenzene 0.100 0.1153 115 70 - 130 mg/L m-Xylene & p-Xylene 0.200 0.2345 mg/L 117 70 - 130 o-Xylene 0.100 0.1211 mg/L 70 - 130 121

LCS LCS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 125 70 - 130 1,4-Difluorobenzene (Surr) 107

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Client Sample ID: MW-20

Prep Type: Total/NA

Analysis Batch: 7813 Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limits RPD Limit Analyte Unit %Rec Benzene 0.100 0.1082 mg/L 108 70 - 130 20 Toluene 0.100 0.1207 mg/L 121 70 - 130 3 20 Ethylbenzene 0.100 0.1190 119 70 - 130 20 mg/L 3 0.200 70 - 130 20 m-Xylene & p-Xylene 0.2426 mg/L 121 0.100 0.1255 126 70 - 130 20 o-Xylene mg/L

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 138 1,4-Difluorobenzene (Surr) 70 - 130 107

Lab Sample ID: 890-1224-13 MS

Matrix: Water

Analysis Batch: 7813

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00200	U	0.100	0.1066		mg/L		107	70 - 130
Toluene	<0.00200	U	0.100	0.1150		mg/L		115	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1107		mg/L		111	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2249		mg/L		112	70 - 130
o-Xylene	<0.00200	U	0.100	0.1156		mg/L		116	70 - 130

	IVIS IVIS	
Surrogate	%Recovery Quality	fier Limits
4-Bromofluorobenzene (Surr)	118	70 - 130
1,4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 890-1224-13 MSD Client Sample ID: MW-20 **Matrix: Water**

Analysis Batch: 7813

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09016		mg/L		90	70 - 130	17	25
Toluene	<0.00200	U	0.100	0.1004		mg/L		100	70 - 130	14	25
Ethylbenzene	<0.00200	U	0.100	0.09732		mg/L		97	70 - 130	13	25
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1981		mg/L		99	70 - 130	13	25
o-Xylene	<0.00200	U	0.100	0.1024		mg/L		102	70 - 130	12	25

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Page 13 of 26

Client: Talon/LPE Job ID: 890-1224-1 Project/Site: Lovington Deep SDG: Lea County NM

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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

QC Association Summary

Client: Talon/LPE Job ID: 890-1224-1
Project/Site: Lovington Deep SDG: Lea County NM

GC VOA

Analysis Batch: 7784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1224-1	MW-1	Total/NA	Water	8021B	
890-1224-2	MW-3	Total/NA	Water	8021B	
890-1224-3	MW-4	Total/NA	Water	8021B	
890-1224-4	MW-5	Total/NA	Water	8021B	
890-1224-5	MW-8	Total/NA	Water	8021B	
890-1224-6	MW-9	Total/NA	Water	8021B	
890-1224-7	MW-11	Total/NA	Water	8021B	
890-1224-8	MW-12	Total/NA	Water	8021B	
890-1224-9	MW-15	Total/NA	Water	8021B	
890-1224-10	MW-16	Total/NA	Water	8021B	
MB 880-7784/8	Method Blank	Total/NA	Water	8021B	
LCS 880-7784/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-7784/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1224-1 MS	MW-1	Total/NA	Water	8021B	
890-1224-1 MSD	MW-1	Total/NA	Water	8021B	

Analysis Batch: 7813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1224-11	MW-18	Total/NA	Water	8021B	<u> </u>
890-1224-12	MW-19	Total/NA	Water	8021B	
890-1224-13	MW-20	Total/NA	Water	8021B	
MB 880-7813/8	Method Blank	Total/NA	Water	8021B	
LCS 880-7813/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-7813/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1224-13 MS	MW-20	Total/NA	Water	8021B	
890-1224-13 MSD	MW-20	Total/NA	Water	8021B	

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Job ID: 890-1224-1

SDG: Lea County NM

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	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	7784	09/12/21 20:49	MR	XEN MID

Lab Sample ID: 890-1224-6

Matrix: Water

Analyst Lab

Lab Sample ID: 890-1224-7

Matrix: Water

XEN MID

or Analyzed Analyst Lab 09/12/21 21:44 MR XEN MID

Project/Site: Lovington Deep Client Sample ID: MW-1

Client: Talon/LPE

Total/NA

Prep Type

Prep Type

Prep Type

Prep Type

Total/NA

Total/NA

Date Collected: 09/07/21 12:00 Date Received: 09/07/21 15:22

Batch Batch Prep Type Type

Method Run 8021B

Run

Run

Dil Initial Factor Amount 5 mL

Final Batch Amount 5 mL

Number 7784

or Analyzed

Prepared

Analyst 09/12/21 18:58

Lab MR XEN MID

Lab Sample ID: 890-1224-1

Lab Sample ID: 890-1224-2

Matrix: Water

Matrix: Water

Date Collected: 09/07/21 09:05 Date Received: 09/07/21 15:22

Client Sample ID: MW-3

8021B Total/NA Analysis Client Sample ID: MW-4

Date Collected: 09/07/21 13:20

Batch

Method

Method

8021B

8021B

Dil Initial Amount Factor 5 mL

Final Amount 5 mL

Final

Amount

5 mL

Final

Batch Number 7784

Batch

7784

Batch

Number

or Analyzed 09/12/21 19:26

Prepared

or Analyzed

09/12/21 19:54

Prepared

Prepared

MR XEN MID Lab Sample ID: 890-1224-3

Analyst

Analyst

Lab Sample ID: 890-1224-4

MR

Matrix: Water

Lab

XEN MID

Matrix: Water

Lab

Matrix: Water

Lab

Date Received: 09/07/21 15:22 Batch Batch

Туре

Analysis

Batch

Туре

Total/NA Analysis **Client Sample ID: MW-5**

Date Collected: 09/07/21 13:15 Date Received: 09/07/21 15:22

Batch

Type

Analysis

Batch Method Run

Dil Factor

Dil

Factor

Amount 5 mL

Initial

Initial

Amount

5 mL

Amount Number 7784 5 mL

or Analyzed

Analyst 09/12/21 20:21

MR XEN MID Lab Sample ID: 890-1224-5

Client Sample ID: MW-8

Date Collected: 09/07/21 09:45

Date Received: 09/07/21 15:22

Client Sample ID: MW-9 Date Collected: 09/07/21 09:30 Date Received: 09/07/21 15:22

Batch

Туре

Analysis

Batch Method

8021B

Dil Initial Run Factor Amount 5 mL

Final Amount 5 mL

Batch Number 7784

Prepared or Analyzed 09/12/21 21:16

Date Collected: 09/07/21 08:45 Date Received: 09/07/21 15:22

Client Sample ID: MW-11

Batch Prep Type Type Total/NA

Analysis

Batch Method Run 8021B

Dil Initial Factor Amount 5 mL

Final Amount 5 mL

Batch Number 7784

Prepared

MR

Client: Talon/LPE

Prep Type

Total/NA

Project/Site: Lovington Deep

Client Sample ID: MW-12

Date Collected: 09/07/21 09:00

Date Received: 09/07/21 15:22

Job ID: 890-1224-1 SDG: Lea County NM

Lab XEN MID **Matrix: Water**

Lab Sample ID: 890-1224-8

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number Total/NA Analysis 8021B 5 mL 5 mL 7784

or Analyzed Analyst 09/12/21 22:11 MR

Lab Sample ID: 890-1224-9

XEN MID

Matrix: Water

Lab

Matrix: Water

Client Sample ID: MW-15 Date Collected: 09/07/21 10:10 Date Received: 09/07/21 15:22

Batch

Туре

Analysis

Batch

Method

8021B

Dil Initial Final Batch Prepared Amount Amount Number or Analyzed Run Factor Analyst 7784 09/12/21 22:39

5 mL

Lab Sample ID: 890-1224-10

MR

Date Collected: 09/07/21 11:10 Date Received: 09/07/21 15:22

Client Sample ID: MW-16

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8021B 7784 09/12/21 23:05 MR XEN MID Analysis 5 mL 5 mL

5 mL

Client Sample ID: MW-18 Date Collected: 09/07/21 11:30 Lab Sample ID: 890-1224-11

Matrix: Water

Date Received: 09/07/21 15:22

Dil Batch Batch Initial Final Batch Prepared Method Prep Type Type Run Factor Amount Amount Number or Analyzed Analyst Lab 7813 8021B 09/13/21 18:09 KL XEN MID Total/NA Analysis 5 mL 5 mL

Client Sample ID: MW-19

Lab Sample ID: 890-1224-12

Matrix: Water

Date Collected: 09/07/21 11:45 Date Received: 09/07/21 15:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	7813	09/13/21 18:35	KL	XEN MID

Client Sample ID: MW-20 Date Collected: 09/07/21 12:00 Lab Sample ID: 890-1224-13

Matrix: Water

Date Received: 09/07/21 15:22

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	7813	09/13/21 14:40	KL	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE Job ID: 890-1224-1
Project/Site: Lovington Deep SDG: Lea County NM

Laboratory: Eurofins Xenco, Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report, bu	it the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for v	
the agency does not o	•	it the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for v	
	•	ut the laboratory is not certif Matrix	fied by the governing authority. This list ma	ay include analytes for v	

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Method Summary

Client: Talon/LPE

Project/Site: Lovington Deep

Job ID: 890-1224-1

SDG: Lea County NM

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Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	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.

Laboratory References:

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

Sample Summary

Client: Talon/LPE

Project/Site: Lovington Deep

Job ID: 890-1224-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1224-1	MW-1	Water	09/07/21 12:00	09/07/21 15:22	N/A
890-1224-2	MW-3	Water	09/07/21 09:05	09/07/21 15:22	N/A
890-1224-3	MW-4	Water	09/07/21 13:20	09/07/21 15:22	N/A
890-1224-4	MW-5	Water	09/07/21 13:15	09/07/21 15:22	N/A
890-1224-5	MW-8	Water	09/07/21 09:45	09/07/21 15:22	N/A
890-1224-6	MW-9	Water	09/07/21 09:30	09/07/21 15:22	N/A
890-1224-7	MW-11	Water	09/07/21 08:45	09/07/21 15:22	N/A
890-1224-8	MW-12	Water	09/07/21 09:00	09/07/21 15:22	N/A
890-1224-9	MW-15	Water	09/07/21 10:10	09/07/21 15:22	N/A
890-1224-10	MW-16	Water	09/07/21 11:10	09/07/21 15:22	N/A
890-1224-11	MW-18	Water	09/07/21 11:30	09/07/21 15:22	N/A
890-1224-12	MW-19	Water	09/07/21 11:45	09/07/21 15:22	N/A
890-1224-13	MW-20	Water	09/07/21 12:00	09/07/21 15:22	N/A

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

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Date/Time

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

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SAMPLE RECEIPT

Sampler's Name:

Project Number:

Project Name:

Phone:

Project Manager:

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Chain or	Custody
ıston, TX (281) 240-4200,	Dallas, TX (214) 902-0300

Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No:

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Environment Testing
Xenco

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300

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	ent company to Eurofins Xenco, for any losses or expenses incurr imple submitted to Eurofins Xenc	itutes a valid purchase order from clic shall not assume any responsibility to project and a charge of \$5 for each sa	and relinquishment of samples const able only for the cost of samples and rge of \$85.00 will be applied to each r	e: Signature of this document invice. Eurofins Xenco will be liarofins Xenco will be liarofins Xenco.
Mg Mn Mo Ni K Se Ag SiO, N	A Sb As Ba Be Cd C	TOLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Min Mo	I(s) to be analyzed	Circle Method(s) and Metal(s) to be analyzed
	Al Sb As Ba Be B Cd	8RCRA 13PPM Texas 11 A	200.8 / 6020: 8R(Total 200.7 / 6010 2
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Sample Comments	BT	Time Depth Comp Cont	n Matrix Date Sampled	Sample Identification
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Na ₂ S ₂ O ₃ ; NaSO ₃	Pa	ta 1	o N/A	\vdash
NaHSO ₄ : NABIS	ıram)	Thermomete	Samples Received Intact:
H ₃ PO ₄ : HP	nete	Wet Ice: Yes No	S No	SAMPLE RECEIPT
H ₂ SQ ₄ : H ₂ NaOH: Na	rs			
		TAT starts the day received by		-
<u>_</u>		Due Date:		
None: NO DI Water: H ₂ O	Code		3	ı.
ANALYSIS REQUEST Preservative Codes		Turn Around	COVINGTON DEEP	Project Name: (LOV)
Deliverables: EDD L. Abar L. Ouer.	townipe, com	Email: Cladkins (c) towarepe, com	575-746-8768	Phone: 575-
Reporting: Level III Level III Political Take	SRS# 2002- 10312	City, State ZIP:	31A NM 88210	City, State ZIP: ARTES IA
BRYANT	ATTN: CAMILLE	Address:	408 W. TEXAS AVE	Address: 408 (
Program: UST/PST PRP Brownfields RRC Superfund	PIPEHNE	Company Name:	N CPE	
AWCRICAN Work Order Comments	PLANDS ALL AN	Bill to: (if different)	D. AUKIUS	Project Manager: 0, A1

Eurofins Xenco, Carlsbad 1089 N Canal St

Chain of Custody Record

Phone 575-988-3199 Fax 575-988-3199							America
Client Information (Sub Contract Lab)	Sampler		K-Cat	Lab PM Kramer Jessica	Carrier Tracking No(s)	COC No:	
i	Phone		D T	E-Maii	State of Origin.	Page:	
Company: Eurofins Xenco				Accreditations Required (See note): NELAP - Texas		Job #: 1337 1	
Address 1211 W Florida Ave ,	Due Date Requested 9/13/2021	ed		Analysis	Requested	Preservation Codes	des
City Midland	TAT Requested (days)	ays)·					M Hexane N None
State Zip TX 79701				A second distance		D Nitric Acid E NaHSO4	O - ASNAO2 P Na2O4S Q Na2SO3
Phone 432-704-5440(Tel)	PO#						R Na2S2O3 S H2SO4
Email	WO#:					bakuman	T TSP Dodecahydrate U Acetone V MCAA
Project Name: _ovington Deep	Project #: 89000047			Accompanies of		ᄃᄌ	W pH 4-5 Z other (specify)
Site	SSOW#			D (Ye		Cont	
				Itered S n MS/MS		umber o	
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	(C=Comp, 0=wastefoil, G=qrab) BT=Tissue, A=Air	Field F Perfor		16.2.3.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.	netructions/Note:
	V	L		X			Special men action of the control of
MW-1 (890-1224-1)	9/7/21	12 00 Mountain	Water	×		5 /4	NOW ORDER
MW-3 (890-1224-2)	9/7/21	09 05 Mountain	Water	×		S	
MW-4 (890-1224-3)	9/7/21	13 20 Mountain	Water	×		63	***
MW-5 (890-1224-4)	9/7/21	13 15 Mountain	Water	×		٥	***************************************
MW-8 (890-1224-5)	9/7/21	09 45 Mountain	Water	×		6	
MW-9 (890-1224-6)	9/7/21	09 30 Mountain	Water	×		(80)	The second secon
MW-11 (890-1224-7)	9/7/21	08 45 Mountain	Water	×		6	
MW-12 (890-1224-8)	9/7/21	09 00 Mountain	Water	×		S	
MW-15 (890-1224-9)	9/7/21	10 10 Mountain	Water	×		66	
Note: Since laboratory accreditations are subject to change Eurofins Xenco 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 Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	olaces the ownership being analyzed the sa e signed Chain of Cu	of method analy amples must be stody attesting to	yte & accreditation complice shipped back to the Eurofice said complicance to Eurofice said complicence to Euroficence Euroficence to Euroficence Euro	nce upon out subcontract laboratories. This sains Xenco LLC laboratory or other instructions within Xenco LLC.	mple shipment is forwarded un	nder chain-of-custody If the labora conditation status should be br	atory does not currently rought to Eurofins Xenco Ll
Possible Hazard Identification				Sample Disposal (A fee may b	e assessed if samples	fee may be assessed if samples are retained longer than 1 month)	1 month)
Oncontirmed Deliverable Requested 1 II III IV Other (specific)	Drimany Dollyonakla Book	,		Return To Client	Disposal By Lab	Archive For	Months
		TOTAL MAIN		opecial instructions/QC Requirements	ments		
Empty Kit Relinquished by		Date		Time	Method of Shipment:	it.	
Relinquished by Control 2:8:11	Date/Time		Company	Applefixed by:	Dadajīji	10 K - 10 K	Company
Relinquished by	Date/Time		Company	Received by	Date∕Time		Company
Relinquished by	Date/Time		Company	Received by:	Date/Time	me	Company
Custody Seals Intact. Custody Seal No				Cooler Temperature(s) °C and Other Remarks.	r Remarks.		
				See London			

Ver: 06/08/2021

inh di		Accreditations Required (See note):		
Page 2 of 2	New Mexico	jessica kramer@eurofinset.com		Keceivirig
Page:	State of Origin	E-Mail	Phone	CT CT
890-398 2		Kramer Jessica		iformation (Sub Contract Lab)
COC No	Camer Tracking No(s)	Lab PM:	Sampler:	
				'5-988-3199 Fax 575-988-3199
America		y Necolu	Chair of chair	NM 88220
Courofins Environment Tacting		ly Docord	Chain of Custody Decord	anal St.
!				ns Aenco, Carisbad

Client Information (Sub Contract Lab) Client Contact Shinping/Receiving	Phone			E-Mail	E-Mail			State of Origin	j j		890-398 2 Page:
Shipping/Receiving				jessica	essica kramer@eurofinset.com	rofinset.com		New Mexico	8 =		Page 2 of 2
Eurofins Xenco				7 9	Accreditations Required (See note) NELAP - Texas	aquired (See-not	(e)		!		Job #: 890-1224-1
Address 1211 W Florida Ave	Due Date Requested 9/13/2021	ted				An	alvsis Rec	Requested			Preservation Codes
City Midland	TAT Requested (days):	fays):									
State Zip: TX, 79701				700,12 July	in particular					. Militelia and	D Nitric Acid E NaHSO4
Phone: 432-704-5440(TeI)	PO #:				directerity					Marian de la companya	
Email	WO#				or No lo)						H ASCORDIC ACIO
Project Name	Project #:			022	Sugar anger					iner	K EDTA
Lovington Deep	89000047				Andrew V					ntai	
Sile	SSOW#				SD (Y					of cor	Other:
					70.5% Harasson				************	mber	
		Sample	(C=comp,	S=solid, O=waste/oil,	rforr				**********	tal N	
Sample menuncation - Chent to (Labit)	Sample Date	X ime	G=grab) BT=Tissue, A=A Preservation Code:	<u>تارس</u>	XP.					d to	Special Instructions/Note
MW-16 (890-1224-10)	9/7/21	11 10	- 1	Water	×					ر اد	
MW-18 (890-1224-11)	9/7/21	Mountain 11 30		Water	×					3 4	
MW-19 (890-1224-12)	0/7/04	Mountain 11 45		Mata	; ;						
**** (17///8	Mountain		water	×					63	
MW-20 (890-1224-13)	9/7/21	Mountain		Water	×					60	
										377 - V.S	
									-		
										4	
Note Since laboratory accreditations are subject to charge, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instruatention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC	places the ownership being analyzed the signed Chain of C	o of method and samples must b ustody attesting	alyte & accredita be shipped back t to said complica	tion compliance to the Eurofins X	upon out subcor (enco LLC labora Xenco LLC	ntract laboratori atory or other ins		e shipment is e provided A	forwarded un	der chain-of-c	This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently stons will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed			İ		Sample Di	Sample Disposal (A f	ee may be	assessed if san Disposal By Lab	f samples / Lab	are retain	tained longer th Archive For
Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank		2		Special ins	Special Instructions/QC	Requireme	arts			
Empty Kit Relinquished by		Date			Time			Metho	Method of Shipment:		
Relinquished by Cuch () Flow 9.8;	Pate/Time:		0	Company	Regeived	No.			Delen	10.str	
Relinquished by	Date/Time [,]	777	0	Company	Received by	d by			Date/Ti	Time	
Relinquished by	Date/Time		C	Company	Received by	d by		***************************************	Date/Time	ne	
Custody Seals Intact: Custody Seal No ∆ Yes ∆ No					Cooler T	Cooler Temperature(s) °	°C and Other Remarks.	emanys. 2			

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-1224-1

SDG Number: Lea County NM

Login Number: 1224 List Source: Eurofins Xenco, 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.	N/A	Received same day of collection; chilling process has begun.
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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Login Sample Receipt Checklist

Client: Talon/LPE Job Number: 890-1224-1 SDG Number: Lea County NM

List Source: Eurofins Xenco, Midland Login Number: 1224 List Number: 2 List Creation: 09/09/21 11:48 AM

Creator: Copeland, Tatiana

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	2.2 / 2.7
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	True	

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1657-1

Laboratory Sample Delivery Group: Lovington Lea

Client Project/Site: Lovington Deep

For:

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

Attn: David Adkins

MAMER

Authorized for release by: 12/7/2021 5:05:40 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 8/2/2022 2:57:54 PM

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.

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Client: Talon/LPE
Project/Site: Lovington Deep
Laboratory Job ID: 890-1657-1
SDG: Lovington Lea

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Sample Summary	20
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Definitions/Glossary

Client: Talon/LPE Job ID: 890-1657-1 Project/Site: Lovington Deep SDG: Lovington Lea

Qualifiers

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	. v		Δ
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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 **Quality Control** QC

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: 890-1657-1 Project/Site: Lovington Deep SDG: Lovington Lea

Job ID: 890-1657-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1657-1

Receipt

The samples were received on 11/30/2021 3:28 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 following sample was diluted due to the nature of the sample matrix: MW 4 (890-1657-10) at 10.0. 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.

Client: Talon/LPE

Job ID: 890-1657-1

Project/Site: Lovington Deep

SDG: Lovington Lea

Client Sample ID: MW 16 Lab Sample ID: 890-1657-1

Date Collected: 11/29/21 03:00 Matrix: Water
Date Received: 11/30/21 15:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/04/21 15:46	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/04/21 15:46	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/04/21 15:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 15:46	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 15:46	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 15:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			-		12/04/21 15:46	1
1,4-Difluorobenzene (Surr)	85		70 - 130					12/04/21 15:46	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/07/21 16:34	1

Client Sample ID: MW 15 Lab Sample ID: 890-1657-2

Date Collected: 11/29/21 02:00 Matrix: Water

Date Received: 11/30/21 15:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/04/21 16:12	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/04/21 16:12	1
Ethylbenzene	0.00373		0.00200	0.000657	mg/L			12/04/21 16:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 16:12	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 16:12	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 16:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			_		12/04/21 16:12	1
1,4-Difluorobenzene (Surr)	100		70 - 130					12/04/21 16:12	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00373		0.00400	0.000657	mg/L			12/07/21 16:34	1

Client Sample ID: MW 1

Date Collected: 11/29/21 01:00

Lab Sample ID: 890-1657-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/04/21 16:39	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/04/21 16:39	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/04/21 16:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 16:39	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 16:39	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 16:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			-		12/04/21 16:39	1
1,4-Difluorobenzene (Surr)	106		70 - 130					12/04/21 16:39	1

Eurofins Xenco, Carlsbad

Date Received: 11/30/21 15:28

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Client: Talon/LPE Project/Site: Lovington Deep SDG: Lovington Lea

Client Sample ID: MW 1 Lab Sample ID: 890-1657-3

Date Collected: 11/29/21 01:00 **Matrix: Water** Date Received: 11/30/21 15:28

Method: Total BTEX - Total BTEX Calculation Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00400 U 0.00400 0.000657 mg/L 12/07/21 16:34

Client Sample ID: MW 20 Lab Sample ID: 890-1657-4

Date Collected: 11/30/21 09:30 **Matrix: Water**

Date Received: 11/30/21 15:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/04/21 17:05	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/04/21 17:05	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/04/21 17:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 17:05	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 17:05	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			-		12/04/21 17:05	1
1,4-Difluorobenzene (Surr)	102		70 - 130					12/04/21 17:05	1

Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Total BTEX <0.00400 U 0.00400 0.000657 mg/L 12/07/21 16:34

Client Sample ID: MW 19 Lab Sample ID: 890-1657-5 Date Collected: 11/30/21 09:00 **Matrix: Water**

Date Received: 11/30/21 15:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00575		0.00200	0.000408	mg/L			12/04/21 17:31	1
Toluene	0.000387	J	0.00200	0.000367	mg/L			12/04/21 17:31	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/04/21 17:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 17:31	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 17:31	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 17:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			-		12/04/21 17:31	1
1,4-Difluorobenzene (Surr)	106		70 - 130					12/04/21 17:31	1
- Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00614		0.00400	0.000657	mg/L			12/07/21 16:34	1

Client Sample ID: MW 18 Lab Sample ID: 890-1657-6

Date Collected: 11/30/21 08:30 Date Received: 11/30/21 15:28

Method: 8021B - Volatile Organic Compounds (GC)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	0.000702	J	0.00200	0.000408	mg/L			12/04/21 17:58	1
	Toluene	0.00527		0.00200	0.000367	mg/L			12/04/21 17:58	1

Eurofins Xenco, Carlsbad

Matrix: Water

Client: Talon/LPE Project/Site: Lovington Deep SDG: Lovington Lea

Client Sample ID: MW 18 Lab Sample ID: 890-1657-6

Date Collected: 11/30/21 08:30 Matrix: Water Date Received: 11/30/21 15:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	0.00141	J	0.00200	0.000657	mg/L			12/04/21 17:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 17:58	1
o-Xylene	0.0448		0.00200	0.000642	mg/L			12/04/21 17:58	1
Xylenes, Total	0.0448		0.00400	0.000642	mg/L			12/04/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130			-		12/04/21 17:58	1
1,4-Difluorobenzene (Surr)	94		70 - 130					12/04/21 17:58	1
- Method: Total BTEX - Total B1	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•									

Client Sample ID: MW 12 Lab Sample ID: 890-1657-7 Date Collected: 11/30/21 09:45 **Matrix: Water**

Date Received: 11/30/21 15:28

Date Received: 11/30/21 15:28

Released to Imaging: 8/2/2022 2:57:54 PM

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000479	J	0.00200	0.000408	mg/L			12/04/21 18:24	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/04/21 18:24	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/04/21 18:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 18:24	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 18:24	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			-		12/04/21 18:24	1
1,4-Difluorobenzene (Surr)	89		70 - 130					12/04/21 18:24	1
- Method: Total BTEX - Total B1	TEX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/07/21 16:34	1

Client Sample ID: MW 9 Lab Sample ID: 890-1657-8 Date Collected: 11/30/21 08:50 **Matrix: Water**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/04/21 18:50	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/04/21 18:50	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/04/21 18:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 18:50	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 18:50	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130			-		12/04/21 18:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130					12/04/21 18:50	1

SDG: Lovington Lea

Project/Site: Lovington Deep

Client: Talon/LPE

Lab Sample ID: 890-1657-8

Matrix: Water

Matrix: Water

Client Sample ID: MW 9 Date Collected: 11/30/21 08:50

Date Received: 11/30/21 15:28

Method: Total BTEX - Total BTEX Calculation										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/07/21 16:34	1

Client Sample ID: MW 11 Lab Sample ID: 890-1657-9 Date Collected: 11/30/21 08:30

Date Received: 11/30/21 15:28

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Dil Fac Unit D Prepared Analyzed U Benzene <0.00200 0.00200 0.000408 12/04/21 19:16 mg/L Toluene <0.00200 U 0.00200 0.000367 12/04/21 19:16 ma/L Ethylbenzene 0.00200 0.000657 < 0.00200 mg/L 12/04/21 19:16 m-Xylene & p-Xylene <0.00400 U 0.00400 0.000629 12/04/21 19:16 ma/L o-Xylene <0.00200 U 0.00200 0.000642 mg/L 12/04/21 19:16 Xylenes, Total <0.00400 U 0.00400 0.000642 mg/L 12/04/21 19:16

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105	70 - 130		12/04/21 19:16	1
1,4-Difluorobenzene (Surr)	111	70 - 130		12/04/21 19:16	1

Method: Total BTEX - Total BTEX Calculation Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00400 U 0.00400 0.000657 ma/L 12/07/21 16:34

Client Sample ID: MW 4 Lab Sample ID: 890-1657-10 Date Collected: 11/30/21 11:00 **Matrix: Water**

Date Received: 11/30/21 15:28

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDI D Analyzed Dil Fac Unit Prepared Benzene <0.0200 U 0.0200 0.00408 mg/L 12/04/21 19:42 10 Toluene <0.0200 U 0.0200 0.00367 12/04/21 19:42 10 mg/L Ethylbenzene <0.0200 U 0.0200 0.00657 mg/L 12/04/21 19:42 10 m-Xylene & p-Xylene <0.0400 U 0.0400 0.00629 12/04/21 19:42 10 ma/L 0.00642 mg/L 12/04/21 19:42 o-Xylene <0.0200 U 0.0200 10 Xylenes, Total <0.0400 U 0.0400 0.00642 mg/L 12/04/21 19:42 10 Surrogate %Recovery Qualifier Limits Analyzed Dil Fac Prepared 101 70 - 130 4-Bromofluorobenzene (Surr) 12/04/21 19:42 10 1,4-Difluorobenzene (Surr) 103 70 - 130 12/04/21 19:42 10 **Method: Total BTEX - Total BTEX Calculation** Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared

Total BTEX <0.0400 U 0.0400 12/07/21 16:34 0.00657 mg/L Client Sample ID: MW 5 Lab Sample ID: 890-1657-11

Date Collected: 11/30/21 11:30

Toluene

Date Received: 11/30/21 15:28 Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 0.000408 mg/L 12/04/21 21:29

Eurofins Xenco, Carlsbad

12/04/21 21:29

0.00200

0.000367

mg/L

<0.00200 U

Matrix: Water

Client: Talon/LPE Project/Site: Lovington Deep SDG: Lovington Lea

Client Sample ID: MW 5 Lab Sample ID: 890-1657-11

Date Collected: 11/30/21 11:30 **Matrix: Water** Date Received: 11/30/21 15:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/04/21 21:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 21:29	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 21:29	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 21:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			-		12/04/21 21:29	1
1,4-Difluorobenzene (Surr)	88		70 - 130					12/04/21 21:29	1
- Method: Total BTEX - Total B1	TEX Calculation								
Method: Total BTEX - Total BT Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: MW 8 Lab Sample ID: 890-1657-12 Date Collected: 11/30/21 09:00 **Matrix: Water**

Date Received: 11/30/21 15:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/04/21 21:56	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/04/21 21:56	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/04/21 21:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 21:56	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 21:56	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 21:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			_		12/04/21 21:56	1
1,4-Difluorobenzene (Surr)	102		70 - 130					12/04/21 21:56	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	П	0.00400	0.000657	mg/L			12/07/21 16:34	

Client Sample ID: MW 3 Lab Sample ID: 890-1657-13 Date Collected: 11/30/21 11:15 **Matrix: Water**

Date Received: 11/30/21 15:28

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000494	J	0.00200	0.000408	mg/L			12/04/21 22:23	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/04/21 22:23	1
Ethylbenzene	0.0339		0.00200	0.000657	mg/L			12/04/21 22:23	1
m-Xylene & p-Xylene	0.0225		0.00400	0.000629	mg/L			12/04/21 22:23	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 22:23	1
Xylenes, Total	0.0225		0.00400	0.000642	mg/L			12/04/21 22:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			-		12/04/21 22:23	1
1,4-Difluorobenzene (Surr)	96		70 - 130					12/04/21 22:23	1

Client Sample Results

Client: Talon/LPE Job ID: 890-1657-1 Project/Site: Lovington Deep SDG: Lovington Lea

Client Sample ID: MW 3 Lab Sample ID: 890-1657-13

Date Collected: 11/30/21 11:15 Matrix: Water

Date Received: 11/30/21 15:28

Method: Total BTEX - Total BTEX Calculation Analyte Dil Fac Result Qualifier RLMDL Unit D Prepared Analyzed

0.00400 0.000657 mg/L 12/07/21 16:34 **Total BTEX** 0.0569

Surrogate Summary

Client: Talon/LPE Job ID: 890-1657-1 Project/Site: Lovington Deep SDG: Lovington Lea

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)	
890-1657-1	MW 16	113	85	
890-1657-1 MS	MW 16	94	102	
890-1657-1 MSD	MW 16	101	9 S1-	
890-1657-2	MW 15	100	100	
890-1657-3	MW 1	105	106	
890-1657-4	MW 20	102	102	
890-1657-5	MW 19	105	106	
890-1657-6	MW 18	94	94	
890-1657-7	MW 12	88	89	
890-1657-8	MW 9	95	100	
890-1657-9	MW 11	105	111	
890-1657-10	MW 4	101	103	
890-1657-11	MW 5	116	88	
890-1657-12	MW 8	104	102	
890-1657-13	MW 3	102	96	
LCS 880-13920/3	Lab Control Sample	93	95	
LCSD 880-13920/4	Lab Control Sample Dup	102	105	
MB 880-13920/8	Method Blank	55 S1-	91	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Client: Talon/LPE Job ID: 890-1657-1 Project/Site: Lovington Deep SDG: Lovington Lea

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-13920/8

Matrix: Water

Analysis Batch: 13920

Client	Sampl	e ID:	Method	Blank
	_	_		

Prep Type: Total/NA

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 0.000408 mg/L 12/04/21 15:20 Toluene <0.00200 U 0.00200 0.000367 mg/L 12/04/21 15:20 12/04/21 15:20 Ethylbenzene <0.00200 U 0.00200 0.000657 mg/L m-Xylene & p-Xylene <0.00400 U 0.00400 0.000629 mg/L 12/04/21 15:20 o-Xylene <0.00200 U 0.00200 0.000642 mg/L 12/04/21 15:20 Xylenes, Total <0.00400 U 0.00400 0.000642 mg/L 12/04/21 15:20

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130	_		12/04/21 15:20	1
1,4-Difluorobenzene (Surr)	91		70 - 130			12/04/21 15:20	1

Lab Sample ID: LCS 880-13920/3

Matrix: Water

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Analysis Batch: 13920

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

LCS LCS %Rec. Spike Added Result Qualifier Unit %Rec Limits 0.100 0.08558 mg/L 86 70 - 130 0.100 0.07806 mg/L 78 70 - 130 0.100 0.08366 mg/L 84 70 - 130 70 - 130 0.200 91 m-Xylene & p-Xylene 0.1821 mg/L 0.100 0.08762 mg/L 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-13920/4

Matrix: Water

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 13920

Client Sample	ID: Lab Contr	ol Sample Dup
	Prep	Type: Total/NA

70 - 130

RPD LCSD LCSD %Rec. Result Qualifier Unit %Rec Limits RPD Limit 0.08954 mg/L 90 70 - 130 20 5 0.08154 mg/L 82 70 - 130 20 0.08819 mg/L 88 70 - 130 20 5 0.1928 mg/L 96 70 - 130 20 0.09296

mg/L

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-1657-1 MS

Matrix: Water

Analysis Batch: 13920

7,0.0.2	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.08442		mg/L		84	70 - 130	
Toluene	<0.00200	U	0.100	0.07629		mg/L		76	70 - 130	

Spike

Added

0.100

0.100

0.100

0.200

0.100

Eurofins Xenco, Carlsbad

Client Sample ID: MW 16

Prep Type: Total/NA

Page 12 of 24

Client: Talon/LPE Job ID: 890-1657-1 Project/Site: Lovington Deep SDG: Lovington Lea

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

<0.00400

<0.00200 U

Lab Sample ID: 890-1657-1 MS

m-Xylene & p-Xylene

o-Xylene

Matrix: Water Prep Type: Total/NA Analysis Batch: 13920 Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00200 U 0.100 0.08301 83 70 - 130 mg/L

0.1808

0.08756

mg/L

mg/L

90

88

70 - 130

70 - 130

Client Sample ID: MW 16

Prep Type: Total/NA

0.200

0.100

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 94 70 - 130 1,4-Difluorobenzene (Surr) 102

Lab Sample ID: 890-1657-1 MSD

Matrix: Water

Analysis Batch: 13920

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier %Rec Limits RPD Limit Analyte Unit Benzene <0.00200 U 0.100 0.08353 mg/L 84 70 - 130 25 Toluene <0.00200 0.08479 85 70 - 130 25 0.100 mg/L 11 0.08589 Ethylbenzene <0.00200 U 0.100 86 70 - 130 3 25 mg/L m-Xylene & p-Xylene < 0.00400 0.200 0.1879 94 70 - 130 25 U mg/L <0.00200 U 0.100 0.09147 91 70 - 130 25 o-Xylene mg/L

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 101 1,4-Difluorobenzene (Surr) 70 - 130 9 S1Client Sample ID: MW 16

QC Association Summary

Client: Talon/LPE Job ID: 890-1657-1 Project/Site: Lovington Deep SDG: Lovington Lea

GC VOA

Analysis Batch: 13920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1657-1	MW 16	Total/NA	Water	8021B	
890-1657-2	MW 15	Total/NA	Water	8021B	
890-1657-3	MW 1	Total/NA	Water	8021B	
890-1657-4	MW 20	Total/NA	Water	8021B	
890-1657-5	MW 19	Total/NA	Water	8021B	
890-1657-6	MW 18	Total/NA	Water	8021B	
890-1657-7	MW 12	Total/NA	Water	8021B	
890-1657-8	MW 9	Total/NA	Water	8021B	
890-1657-9	MW 11	Total/NA	Water	8021B	
890-1657-10	MW 4	Total/NA	Water	8021B	
890-1657-11	MW 5	Total/NA	Water	8021B	
890-1657-12	MW 8	Total/NA	Water	8021B	
890-1657-13	MW 3	Total/NA	Water	8021B	
MB 880-13920/8	Method Blank	Total/NA	Water	8021B	
LCS 880-13920/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-13920/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1657-1 MS	MW 16	Total/NA	Water	8021B	
890-1657-1 MSD	MW 16	Total/NA	Water	8021B	

Analysis Batch: 14228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1657-1	MW 16	Total/NA	Water	Total BTEX	
890-1657-2	MW 15	Total/NA	Water	Total BTEX	
890-1657-3	MW 1	Total/NA	Water	Total BTEX	
890-1657-4	MW 20	Total/NA	Water	Total BTEX	
890-1657-5	MW 19	Total/NA	Water	Total BTEX	
890-1657-6	MW 18	Total/NA	Water	Total BTEX	
890-1657-7	MW 12	Total/NA	Water	Total BTEX	
890-1657-8	MW 9	Total/NA	Water	Total BTEX	
890-1657-9	MW 11	Total/NA	Water	Total BTEX	
890-1657-10	MW 4	Total/NA	Water	Total BTEX	
890-1657-11	MW 5	Total/NA	Water	Total BTEX	
890-1657-12	MW 8	Total/NA	Water	Total BTEX	
890-1657-13	MW 3	Total/NA	Water	Total BTEX	

Client: Talon/LPE Project/Site: Lovington Deep

SDG: Lovington Lea

Client Sample ID: MW 16

Lab Sample ID: 890-1657-1

Matrix: Water

Date Collected: 11/29/21 03:00 Date Received: 11/30/21 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 15:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Lab Sample ID: 890-1657-2

Client Sample ID: MW 15 Date Collected: 11/29/21 02:00

Matrix: Water

Date Received: 11/30/21 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 16:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Client Sample ID: MW 1 Lab Sample ID: 890-1657-3

Matrix: Water

Date Collected: 11/29/21 01:00 Date Received: 11/30/21 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 16:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Client Sample ID: MW 20 Lab Sample ID: 890-1657-4

Matrix: Water

Date Collected: 11/30/21 09:30 Date Received: 11/30/21 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 17:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Client Sample ID: MW 19 Lab Sample ID: 890-1657-5

Date Collected: 11/30/21 09:00 Date Received: 11/30/21 15:28

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 17:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Client Sample ID: MW 18 Lab Sample ID: 890-1657-6

Date Collected: 11/30/21 08:30 **Matrix: Water** Date Received: 11/30/21 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 17:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

SDG: Lovington Lea

Client Sample ID: MW 12

Project/Site: Lovington Deep

Client: Talon/LPE

Date Collected: 11/30/21 09:45 Date Received: 11/30/21 15:28

Lab Sample ID: 890-1657-7

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 18:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Client Sample ID: MW 9 Lab Sample ID: 890-1657-8

Date Collected: 11/30/21 08:50 Date Received: 11/30/21 15:28

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 18:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Client Sample ID: MW 11 Lab Sample ID: 890-1657-9

Date Collected: 11/30/21 08:30 **Matrix: Water**

Date Received: 11/30/21 15:28

Initial Batch Dil Final Batch Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 8021B 5 mL 13920 12/04/21 19:16 XEN MID Analysis 5 mL KL Total/NA Total BTEX 14228 12/07/21 16:34 XEN MID Analysis 1 AJ

Client Sample ID: MW 4 Lab Sample ID: 890-1657-10

Date Collected: 11/30/21 11:00 **Matrix: Water** Date Received: 11/30/21 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	13920	12/04/21 19:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Client Sample ID: MW 5 Lab Sample ID: 890-1657-11

Date Collected: 11/30/21 11:30 **Matrix: Water** Date Received: 11/30/21 15:28

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 21:29	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Client Sample ID: MW 8 Lab Sample ID: 890-1657-12

Date Collected: 11/30/21 09:00 **Matrix: Water** Date Received: 11/30/21 15:28

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 21:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Lab Chronicle

Client: Talon/LPE Job ID: 890-1657-1 Project/Site: Lovington Deep SDG: Lovington Lea

Client Sample ID: MW 3 Lab Sample ID: 890-1657-13

Date Collected: 11/30/21 11:15 Matrix: Water Date Received: 11/30/21 15:28

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 22:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14228	12/07/21 16:34	AJ	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE

Project/Site: Lovington Deep

Job ID: 890-1657-1

SDG: Lovington Lea

Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
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The following analytes are included in this report		it the lanoratory is not certitie	ed by the doverning alithority. I his list ma	
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Method Summary

Client: Talon/LPE

Project/Site: Lovington Deep

Job ID: 890-1657-1

SDG: Lovington Lea

000.	Lovington Loa	

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 Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Talon/LPE

Job ID: 890-1657-1

Project/Site: Lovington Deep

SDG: Lovington Lea

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1657-1	MW 16	Water	11/29/21 03:00	11/30/21 15:28
890-1657-2	MW 15	Water	11/29/21 02:00	11/30/21 15:28
890-1657-3	MW 1	Water	11/29/21 01:00	11/30/21 15:28
890-1657-4	MW 20	Water	11/30/21 09:30	11/30/21 15:28
890-1657-5	MW 19	Water	11/30/21 09:00	11/30/21 15:28
890-1657-6	MW 18	Water	11/30/21 08:30	11/30/21 15:28
890-1657-7	MW 12	Water	11/30/21 09:45	11/30/21 15:28
90-1657-8	MW 9	Water	11/30/21 08:50	11/30/21 15:28
90-1657-9	MW 11	Water	11/30/21 08:30	11/30/21 15:28
90-1657-10	MW 4	Water	11/30/21 11:00	11/30/21 15:28
390-1657-11	MW 5	Water	11/30/21 11:30	11/30/21 15:28
390-1657-12	MW 8	Water	11/30/21 09:00	11/30/21 15:28
890-1657-13	MW 3	Water	11/30/21 11:15	11/30/21 15:28

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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Chain of Custody

Relinquished by: (Signature)
ure of this document and relinquishment of samples constitutes a valid purchase order from citent company to Eurofine Xenco, its affiliates and subcontractors. It assigns standard terms and conditions rofins 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 noc. A minimum charge of 585.00 will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously nego
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890-1657 Chain of Custody
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ANALYSIS REQUEST

Relimpy shed by: (Signature)

17.00

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eurofins **Environment Testing** Xenco

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300

Control Name Cont							
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		1					

Phone:

Work Order No:

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-1657-1

SDG Number: Lovington Lea

List Source: Eurofins Xenco, Carlsbad

List Number: 1

Login Number: 1657

Creator: Olivas, Nathaniel

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	

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Login Sample Receipt Checklist

Client: Talon/LPE SDG Number: Lovington Lea

List Source: Eurofins Xenco, Midland

Job Number: 890-1657-1

List Creation: 12/02/21 11:49 AM

List Number: 2 Creator: Lowe, Katie

Login Number: 1657

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	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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 92061

CONDITIONS

Operator:	OGRID:
PLAINS MARKETING L.P.	34053
333 Clay Street Suite 1900	Action Number:
Houston, TX 77002	92061
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2021 ANNUAL GROUNDWATER MONITORING REPORT: Content satisfactory Contractor recommendations approved by OCD and are as follows; 1. Continue monthly MDPE events 2. Perform quarterly groundwater monitoring events in accordance with NMOCD directives 3. Submit annual report to OCD no later than March 31,2023.	8/2/2022