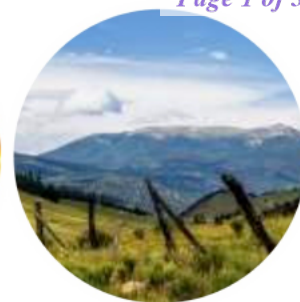


talonlpe.com • 866.742.0742



REVIEWED

By Mike Buchanan at 10:08 am, Aug 13, 2024

2023 Annual Groundwater Monitoring Report

C.S. Caylor
Lea County, New Mexico
SRS # 2002-10250
NMOCD REF. # AP-052, nAPP2109527803

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

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

March 1, 2024

Review of the 2023 Annual Groundwater Monitoring Report for C.S. Caylor: content satisfactory

1. Conduct quarterly groundwater monitoring as prescribed for PAH and BTEX.
2. Continue the O&M for the groundwater recovery system.
3. Install additional monitoring wells as replacements for declining groundwater levels
4. Install replacement for MW-20 after P&A of that well. Please upload permit obtained from OSE.
5. Submit the 2024 annual report to OCD by April 1, 2025.



2023 ANNUAL GROUNDWATER MONITORING REPORT

C.S. Caylor
Lea County, New Mexico
SRS # 2002-10250
NMOCD REF. # AP-052, nAPP2109527803

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

Prepared By:

Joshua Frenya
Staff Geologist

Reviewed By:

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



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

March 1, 2024

DISTRIBUTION LIST

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

NMOCD – New Mexico Oil Conservation Division

TABLE OF CONTENTS

1. INTRODUCTION AND SITE HISTORY 1

1.1 Site Geology 1

1.2 Previous Environmental Investigations 2

1.3 Regulatory Framework. 3

2. SITE ACTIVITIES..... 5

2.1 Groundwater Monitoring Activities 5

2.2 Groundwater Gauging, Purging, and Sampling Procedures 6

2.3 Phase Separated Hydrocarbon Recovery 7

3. GROUNDWATER MONITORING RESULTS 9

3.1 Physical Characteristics of the First Water-Bearing Zone 9

3.2 Groundwater Gradient and Flow Direction. 10

3.3 Phase Separated Hydrocarbons 10

3.4 Groundwater Sampling Results 11

4. CONCLUSIONS AND RECOMMENDATIONS 15

4.1 Summary of Findings 15

4.2 Recommendations 15

APPENDICES

Appendix A Figures

- Figure 1 – Site Map
- Figure 2a – Groundwater Gradient Map - 03/17/2023
- Figure 2b – Groundwater Gradient Map - 06/16/2023
- Figure 2c – Groundwater Gradient Map - 09/18/2023
- Figure 2d – Groundwater Gradient Map - 12/18/2023
- Figure 3a – PSH Thickness & Groundwater Concentration Map - 03/17, 20-22/2023
- Figure 3b – PSH Thickness & Groundwater Concentration Map - 06/16,20-21 & 8/23-24/2023
- Figure 3c – PSH Thickness & Groundwater Concentration Map - 09/18-20/2023
- Figure 3d – PSH Thickness & Groundwater Concentration Map - 12/18-20/2023

Appendix B Tables

- Table 1 – Groundwater Gauging and NAPL Thickness - Historical
- Table 2 – Groundwater Analytical Data - Historical
- Table 3 – Groundwater Analytical Data – Historical – PAH Supplement
- Table 4 – Groundwater Analytical Data – Historical – MNA Supplement

Appendix C Laboratory Analytical Data Reports and Chain of Custody Documentation

Appendix D Mann-Kendall Analysis

1. INTRODUCTION AND SITE HISTORY

C.S. Caylor (site) is located approximately seven (7) miles southeast of Lovington in Unit Letter B, Section 6, Township 17 South and Range 37 East in Lea County, New Mexico, on property owned by Robert C. Rice. There are no residences, groundwater supply wells, or surface water bodies within a 1,000-foot radius of the site. The initial release occurred from an EOTT Energy (EOTT) steel pipeline on September 19, 2002. Subsequently, EOTT changed its name to Link Energy in October 2003, and Plains Pipeline, L.P. (Plains) purchased the assets of Link Energy on April 1, 2004. Initial reports estimated the release at 70 barrels (bbls) of crude oil with no recovery during initial response actions. During site reconnaissance, it was observed that the ground surface beyond the current spill area had apparently been impacted by a prior spill or spills; however, the source(s) and date(s) of the spill(s) are unknown.

The site is situated in a physiographic area 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 playas 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 3,810-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.

On February 5, 2007, Talon/LPE was retained by Plains Pipeline, L.P. to assume remediation activities at the site. Remediation activities at the site were previously conducted by Environmental Plus, Inc. (EPI).

1.1 Site Geology

The surface deposits in Lea County are composed of Blackwater Draw (Illinoian) sediments, Ogallala sediments, and undivided Quaternary alluvium, which is also termed 'cover sands'. The soil in the upper two (2) feet at the site is composed of gravelly

loam that consists of sand, clay, silt, and abundant eroded gravel to cobble size caliche fragments. Below the top soil is predominately unconsolidated sand to weakly cemented sandstone, which has undergone calcification of varying extent.

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

1.2 Previous Environmental Investigations

A total of 39 groundwater monitor wells (21 original monitor wells and 18 replacement wells) have been installed in the vicinity of the release (see Figure 1). With New Mexico Oil Conservation Division (NMOCD) approval and landowner concurrence, groundwater monitor well MW-1 was installed in October 2002 and was subsequently plugged in September 2008 due to the well being dry. Groundwater monitor wells (MW-2 through MW-5) were installed from May to June 2004, and MW-6 through MW-10 were installed in October 2004. Groundwater monitor wells (MW-11 through MW-17) were installed in February 2006, and MW-18 was installed in March 2008. Replacement monitor well MW-1A was installed in September 2008.

During 2011, four (4) replacement monitor wells were drilled at the site (MW-2A, MW-7A, MW-8A, and MW-12A). Groundwater levels at the site have declined an average of 13.5 feet since groundwater measurements were first obtained in 2002. Groundwater had not been detected in monitor well MW-7 since the gauging event on September 21, 2010, or in monitor well MW-8 since the gauging event on June 10, 2009; therefore, monitor wells MW-7 and MW-8 were plugged, and replacement monitor wells MW-7A and MW-8A were installed on April 19 - 20, 2011.

During the gauging event on March 23, 2011, the total depth (TD) of monitor well MW-2 was 88 feet below top of casing (btoc), it contained approximately five (5) feet of phase-separated hydrocarbons (PSH), and groundwater was not detected. The TD of monitor well MW-12 was 90 feet btoc. Gauging indicated approximately five (5) feet of PSH, and groundwater at TD. Since the fluid column of the wells was inadequate to install pumps, replacement monitor wells MW-2A and MW-12A were drilled on April 28, 2011. MW-2 and MW-12 were not plugged.

During 2012, four (4) replacement monitor wells were drilled at the site (MW-9A, MW-10A, MW-13A, and MW-14A) due to declining groundwater levels. The previously existing wells (MW-9, MW-10, MW-13, and MW-14) were plugged.

During 2013, five (5) replacement monitor wells were drilled at the site (MW-3A, MW-4A, MW-6A, MW-11A, and MW-18A) due to declining groundwater levels. The previously existing wells (MW-3, MW-4, MW-6, MW-11, and MW-18) were plugged.

During 2016, four (4) replacement monitor wells (MW-5A, MW-15A, MW-16A, and MW-17A) were drilled. Three (3) additional wells (MW-19, MW-20, and MW-21) were also drilled due to declining groundwater levels, to aid in PSH recovery, and to delineate the dissolved phase plume. The groundwater monitoring wells MW-2, MW-5, MW-12, MW-15, MW-16, and MW-17 were plugged.

PSH recovery operations have been performed at the site since September 2002. A summary of the historical groundwater and PSH gauging is provided in Table 1. Approximately 601.84 bbls of crude oil have been recovered from the site as of December 31, 2023.

During 2023, the groundwater recovery system extracted approximately 0.20 bbls of PSH and 13.80 bbls of groundwater. Four (4) MDPE events conducted in January, June, October, and December 2023, recovered 44.62 bbls of PSH which consisted of 13.14 bbls of vapor and 31.48 bbls of liquid PSH. A cumulative total of 44.82 bbls of PSH were recovered in 2023.

1.3 Regulatory Framework

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

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

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

2. SITE ACTIVITIES

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

2.1 Groundwater Monitoring Activities

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

During the March 2023 groundwater monitoring event, 20 monitor wells were gauged. A total of 11 monitor wells (MW-6A, MW-9A through MW-11A, MW-13A through MW-18A, and MW-21) were purged and sampled. Due to the presence of PSH, three (3) monitor wells (MW-5A, MW-12A, and MW-19) were not sampled. It was noted that six (6) monitor wells (MW-1A, MW-2A, MW-3A, MW-4A, MW-7A, and MW-8A) were dry when gauged; therefore, the aforementioned wells were not purged or sampled. Monitor well MW-20 was not scheduled to be sampled. Details of the gauging, purging, and sampling activities are presented in [Section 2.2](#).

During the June/August 2023 groundwater monitoring event, 20 monitor wells were gauged. A total of 12 monitor wells (MW-6A, MW-9A through MW-18A, and MW-21) were purged and sampled. Due to the presence of PSH, one (1) monitor well (MW-5A) were not sampled. It was noted that six (6) monitor wells (MW-1A, MW-2A, MW-3A, MW-4A, MW-7A, and MW-8A) were dry when gauged and monitor well MW-19 had an obstruction; therefore, the aforementioned wells were not purged or sampled. Monitor well MW-20 was not scheduled to be sampled. Due to a laboratory error, samples from eight (8) monitor wells (MW-9A, MW-12A, MW-13A, MW-14A, MW-15A, MW-16A, MW-17A, and MW-18A) were lost. Talon/LPE collected new samples from these wells on August 23-24, 2023, and submitted to the laboratory for testing. Details of the gauging, purging, and sampling activities are presented in [Section 2.2](#).

During the September 2023 groundwater monitoring event, 20 monitor wells were gauged. A total of 11 monitor wells (MW-6A, MW-9A, MW-10A, MW-11A, MW-13A through MW-18A, and MW-21) were purged and sampled. Due to the presence of PSH, three (3) monitor wells (MW-5A, MW-12A, MW-19) were not sampled. It was noted that six (6) monitor wells (MW-1A, MW-2A, MW-3A, MW-4A, MW-7A, and MW-8A) were dry

when gauged; therefore, the aforementioned wells were not purged or sampled. Monitor well MW-20 was not scheduled to be sampled. Details of the gauging, purging, and sampling activities are presented in [Section 2.2](#).

During the December 2023 groundwater monitoring event, 20 monitor wells were gauged. A total of 11 monitor wells (MW-6A, MW-9A, MW-10A, MW-11A, MW-13A through MW-18A, MW-21) were purged and sampled. Due to the presence of PSH, two (2) monitor wells (MW-5A and MW-12A) were not sampled. It was noted that six (6) monitor wells (MW-1A, MW-2A, MW-3A, MW-4A, MW-7A, and MW-8A) were dry when gauged and monitor well MW-19 had an obstruction; therefore, the aforementioned wells were not purged or sampled. Monitor well MW-20 was not scheduled to be sampled. Details of the gauging, purging, and sampling activities are presented in [Section 2.2](#).

2.2 Groundwater Gauging, Purging, and Sampling Procedures

During each groundwater monitoring event, all accessible monitor wells were measured with an oil/water interface probe to determine static water levels and to determine the thickness of PSH accumulation, if present. The data collected from the measurements was used to construct groundwater gradient maps and PSH thickness maps. The gauging results collected during the four (4) events are incorporated in Table 1 - Groundwater Gauging and NAPL Thickness - Historical in [Appendix B](#).

Subsequent to gauging, all monitor wells with sufficient water volume and that did not indicate the presence of PSH were purged using a 12-volt submersible 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 deposited into the onsite recovery tank. Between January and June 2022, water was transferred to the Rocky/Smith saltwater disposal (SWD) system. Since June 2022, water is transferred offsite by Gandy Marley to an NMOCD approved disposal facility, Gandy Marley, for disposal.

Groundwater samples were collected from all monitor wells that did not indicate the presence of PSH using dedicated disposable polyethylene bailers. The groundwater samples were contained in appropriately preserved, laboratory supplied sample vials. The groundwater samples were maintained on ice, in the custody of Talon/LPE personnel, until they were delivered to Eurofins Laboratory in Carlsbad, New Mexico and Eurofins Laboratory in Midland, Texas for the first quarter and Permian Basin Environmental in Midland, Texas for the second, third, and fourth quarters for testing. The groundwater samples collected during the four (4) events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B.

Groundwater samples collected from wells (MW-6A, MW-10A, MW-11A, MW-13A, MW-14A, MW-17A, and MW-21A) were also analyzed for polycyclic aromatic hydrocarbons (PAH) by EPA Method 8270 in March 2023.

Groundwater samples collected from wells (MW-6A, MW-10A, MW-11A, and MW-21) were also analyzed for Monitored Natural Attenuation (MNA) parameters. The monitor wells sampled for MNA parameters were purged using low-flow groundwater sampling procedures. Field parameters for dissolved oxygen, oxidation-reduction potential, pH, temperature, and conductivity were collected every three (3) to five (5) minutes during purging activities. When three (3) consecutive, consistent readings were observed, a groundwater sample was taken from the pump's discharge tubing into appropriately preserved, laboratory supplied sample containers. The groundwater samples were maintained on ice in the custody of Talon/LPE until delivery to Eurofins Laboratories, Inc. in Carlsbad, New Mexico or Permian Basin Environmental in Midland, Texas for analysis of nitrate, sulfate, ferrous iron, manganese, alkalinity, and methane.

2.3 Phase Separated Hydrocarbon Recovery

PSH recovery methods have been employed at the site since 2002. Recovery was initially conducted by hand bailing, followed in March of 2003 with a portable gasoline powered eductor recovery system.

In November 2007, an automated skimmer recovery system was installed at the site. The skimmer assembly consisted of bladder pumps combined with 24" traveling float specific gravity skimmer attachments. In July of 2009, a pneumatic total fluids pump was added to monitor well MW-1A, and in January of 2010, two (2) pneumatic total fluids pumps were added to monitor wells MW-2 and MW-3.

During 2022, there were two (2) total fluid pumps operating in monitor wells MW-12A and MW-19 for all four (4) quarters. The PSH and recovered groundwater was pumped into a frac tank on site. As the tank level fills a high-level head pressure switch activates a fluid transfer pump. When the pump is engaged the recovered fluids are transferred to a 4-inch HDPE line that is shared with the recovered fluids from Moore to Jal #1 and Moore to Jal #2 groundwater recovery systems. A 5-HP pump transferred the fluids to the Rocky/Smith SWD system for disposal between January and June 2022. Since June 2022, water is transferred offsite by Gandy Marley to the Gandy Marley facility for disposal.

During 2023, there were two (2) total fluid pumps operating in monitor wells MW-12A and MW-19 for all the first, third, and fourth quarters of 2023. During the second quarter, only the total fluid pump in monitor well MW-12A was operating; the total fluid pump in monitor

well MW-19 was obstructed and was removed and replaced. The PSH and recovered groundwater was pumped into a frac tank on site. As the tank level fills a high-level head pressure switch activates a fluid transfer pump. When the pump is engaged the recovered fluids are transferred to a 4-inch HDPE line that is shared with the recovered fluids from Moore to Jal #1 and Moore to Jal #2 groundwater recovery systems. Water is transferred offsite by Gandy Marley to the Gandy Marley facility for disposal.

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

1 st Quarter –	7.05 bbls PSH and	715 bbls of groundwater
2 nd Quarter –	2.1 bbls PSH and	295 bbls of groundwater
3 rd Quarter –	5.4 bbls PSH and	480 bbls of groundwater
4 th Quarter –	0.29 bbls PSH and	16.5 bbls of groundwater

Four (4) MDPE events, in which liquid and vapor PSH were recovered, were conducted on site during 2023. The individual MDPE event recovery totals are as follows:

January 19, 2023 –	1.80 bbls vapor,	4.80 bbls liquid
June 15, 2023 –	2.77 bbls vapor,	13.82 bbls liquid
October 11, 2023 –	2.87 bbls vapor,	9.86 bbls liquid
December 19, 2023 –	5.48 bbls vapor,	3.00 bbls liquid

In 2023, an estimated total of 44.40 bbls of PSH were recovered during the MDPE events.

Approximately 59.24 bbls of crude oil bbls of crude oil was recovered in 2023 and an estimated 2,583.78 bbls of PSH has been recovered at the subject site to date.

3. GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 – Groundwater Analytical Data - Historical, Table 3 – Groundwater Analytical Data – Historical – PAH Supplement, and Table 4 - Groundwater Analytical Data – Historical – MNA Supplement in [Appendix B](#). Laboratory analytical data reports and chain of custody documentation are provided in [Appendix C](#).

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

3.1 Physical Characteristics of the First Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, which includes the site, is referred to as the Ogallala Aquifer or High Plains Aquifer. The Southern portion of the Ogallala Aquifer underlies an area of about 29,000 square miles in western Texas and eastern New Mexico, 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 average from zero 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 inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot with a specific yield averaging 16%. The depth to groundwater at the site has historically ranged from 80 to 97 feet below ground surface, and the groundwater flow direction is to the southeast at an average of five (5) feet per mile. The saturated thickness of the Ogallala formation on the High Plains ranges from 25 feet to 175 feet. The variable thickness is due to the irregularly eroded Triassic surface that underlies it.

The composition of Ogallala groundwater is defined as mixed-cation- HCO_3 , therefore, Ogallala groundwater is considered hard. Problems with scale have occurred with residential and commercial water systems that use Ogallala groundwater and 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 was collected during each of the four (4) groundwater monitoring events during the year 2023. The results of the fluid level measurements are summarized in Table 1 - Groundwater Gauging and NAPL Thickness - Historical in [Appendix B](#).

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

- March 17, 2023
- June 16, 2023
- September 18, 2023
- December 18, 2023

These maps are Figures 2a, 2b, 2c, and 2d presented in [Appendix A](#).

Based on fluid level measurements at the site, the groundwater flow direction within the first water-bearing zone underlying the site between March 2023 and December 2023 was southeast with an average gradient of 0.0028 feet per foot (ft/ft), or approximately 14.78 feet per mile. Groundwater levels at the subject site have exhibited a decrease of an average of 0.79 feet for the year 2023 that appears to be associated with a regional trend of fluctuating groundwater levels for the Ogallala Aquifer.

3.3 Phase Separated Hydrocarbons

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

During the March 2023 sampling event, PSH was observed in three (3) monitor wells (MW-5A, MW-12A, and MW-19). PSH thickness in these wells ranged from 0.01 feet to 5.29 feet.

During the June/August 2023 sampling event, PSH was observed in one (1) monitor wells (MW-5A). PSH thickness in this well measured 0.01 feet.

During the September 2023 sampling event, PSH was observed in three (3) monitor wells (MW-5A, MW-12A, MW-19). PSH thickness in these wells ranged from 0.01 feet to 5.58 feet.

During the December 2023 sampling event, PSH was observed in two (2) monitor wells (MW-5A and MW-12A). PSH thickness ranged from 0.01 feet in MW-12A to 0.15 feet in MW-5A.

PSH plume maps are presented as Figures 3a, 3b, 3c, and 3d in [Appendix A](#).

3.4 Groundwater Sampling Results

During the March 2023 sampling event, 11 monitor wells (MW-6A, MW-9A through MW-11A, MW-13A through MW-18A, and MW-21) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations were below the applicable laboratory MDLs in all wells sampled. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations ranged from below the laboratory MDL in wells MW-11A and MW-21 to 0.00112 mg/L in MW-14A. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells sampled. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were below the applicable laboratory MDLs in all wells sampled. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.
- Naphthalene concentrations for all sampled wells were less than the laboratory MDL. Naphthalene concentrations did not exceed the NMWQCC groundwater standard of 0.030 mg/L in the monitor wells sampled during this quarter.
- Benzo(a)pyrene concentrations for all sampled wells were less than the laboratory MDL. Benzo(a)pyrene concentrations did not exceed the NMWQCC groundwater standard of 0.0007 mg/L in any of the monitor wells sampled during the quarter.
- Dibenzofuran concentrations for all wells were less than the laboratory MDL.
- Methane concentrations for all sampled wells measured <0.000453 mg/L.
- Ferrous Iron concentrations ranged from 0.0700 mg/L in MW-10A to 1.64 mg/L in MW-21.
- Manganese concentrations ranged from 0.00803 mg/L in MW-10A to 0.211 mg/L in MW-21.
- Total Alkalinity concentrations ranged from 227 mg/L in MW-10A to 339 mg/L in MW-6A.

- Sulfate concentrations ranged from 54.7 mg/L in MW-6A to 84.0 mg/L in MW-10A.
- Nitrate as N concentrations ranged from 1.19 mg/L in MW-11A to 2.53 mg/L in MW-10A.

During the June/August 2023 sampling event, 12 monitor wells (MW-6A, MW-9A through MW-18A, and MW-21) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-12A, MW-16A, and MW-17A, which exhibited benzene concentrations of 3.63 mg/L, 0.00210 mg/L, and 0.00499 mg/L, respectively. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in monitor well MW-12A.
- Toluene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-12A, which exhibited a toluene concentration of 0.00575 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-12A, MW-16A, and MW-17A, which exhibited ethylbenzene concentrations of 0.324 mg/L, 0.0226 mg/L and 0.0599 mg/L, respectively. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were below the applicable laboratory MDLs in all wells with the exception of MW-12A, MW-16A, and MW-17A, which exhibited xylene concentrations of 0.531 mg/L, 0.0208 mg/L, and 0.0534 mg/L, respectively. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.
- Methane concentrations for all sampled wells ranged from 0.000679 mg/L in MW-10A to <0.500 mg/L in MW-6A.
- Ferrous Iron concentrations ranged from <0.200 mg/L in MW-6A and MW-21 to 0.369 mg/L in MW-10A.
- Manganese concentrations for all sampled wells ranged from 0.00650 mg/L in MW-6A to 0.301 mg/L in MW-21.
- Total Alkalinity concentrations for all sampled wells ranged from 219 mg/L in MW-10A to 350 mg/L in MW-6A.
- Sulfate concentrations for all sampled wells ranged from 52.1 mg/L in MW-6A to 81.4 mg/L in MW-10A.
- Nitrate as N concentrations for all sampled wells ranged from 0.641 mg/L in MW-21 to 2.12 mg/L in MW-10A.

During the September 2023 sampling event, 11 monitor wells (MW-6A, MW-9A, MW-10A, MW-11A, MW-13A through MW-18A, and MW-21) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

- Benzene concentrations were below the applicable laboratory MDLs in all wells sampled. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any monitor wells sampled this quarter.
- Toluene concentrations were below the applicable laboratory MDLs in all wells sampled. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells sampled. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were below the applicable laboratory MDLs in all wells sampled. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.
- Methane concentrations for all sampled wells ranged between 0.000704 mg/L in MW-21 to 0.000956 mg/L in MW-10A.
- Ferrous Iron concentrations for all sampled wells ranged from <0.200 mg/L in MW-21 to 3.58 mg/L in MW-6A.
- Manganese concentrations for all sampled wells ranged from 0.00930 mg/L in MW-11A to 0.324 mg/L in MW-21.
- Total Alkalinity concentrations for all sampled wells ranged from 130 mg/L in MW-10A to 340 mg/L in MW-6A.
- Sulfate concentrations for all sampled wells ranged from 42.2 mg/L in MW-6A to 68.7 mg/L in MW-11A.
- Nitrate as N concentrations for all sampled wells ranged from 0.678 mg/L in MW-21 to 1.96 mg/L in MW-10A.

During the December 2023 sampling event, 11 monitor wells (MW-6A, MW-9A, MW-10A, MW-11A, MW-13A through MW-18A, MW-21) were sampled. Groundwater samples collected from these wells exhibited the following analytical results:

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

- Ethylbenzene concentrations were below the applicable laboratory MDLs in all wells sampled. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were below the applicable laboratory MDLs in all wells sampled. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.
- Methane concentrations were <0.00500 mg/L in all of the monitor wells sampled.
- Ferrous Iron concentrations were <0.200 mg/L in all of the monitor wells sampled.
- Manganese concentrations ranged from <0.00500 mg/L in MW-6A to 0.519 mg/L in MW-21.
- Total Alkalinity concentrations ranged from 150 mg/L in MW-6A to 1500 mg/L in MW-10A.
- Sulfate concentrations ranged from 55.8 mg/L in MW-6A to 105 mg/L in MW-10A.
- Nitrate as N concentrations ranged from 1.55 mg/L in MW-11A to 1.78 mg/L in MW-10A.

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

Historical benzene concentrations in wells MW-6A, MW-8A, MW-9A, MW-12A, and MW-20 were analyzed using the Mann-Kendall statistical methods to quantitatively determine if the concentrations are increasing, decreasing, or stable over time. The Mann-Kendall analysis is a non-parametric statistical procedure that is used for analyzing trends in data over time. The data was analyzed using the GSI Environmental Inc. Mann-Kendall Toolkit software. Based on the analysis, benzene concentrations in wells MW-6A, MW-9A, and MW-20 show a decreasing trend and benzene concentrations in MW-8 and MW-12A show no trend. Results of the Mann-Kendall analysis are included in [Appendix D](#).

4. CONCLUSIONS AND RECOMMENDATIONS

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

4.1 Summary of Findings

- The groundwater flow direction is generally to the southeast with an average gradient of 0.0028 feet per foot based on the water level measurement data collected in 2023.
- PSH thicknesses have generally decreased during the year 2023.
- The PSH recovery system and MDPE events removed a cumulative total of 59.24 bbls of crude oil from the site during 2023.
- The benzene concentrations in MW-12A exceeded the NMWQCC groundwater standard of 0.0100 mg/L during the March sampling event.

4.2 Recommendations

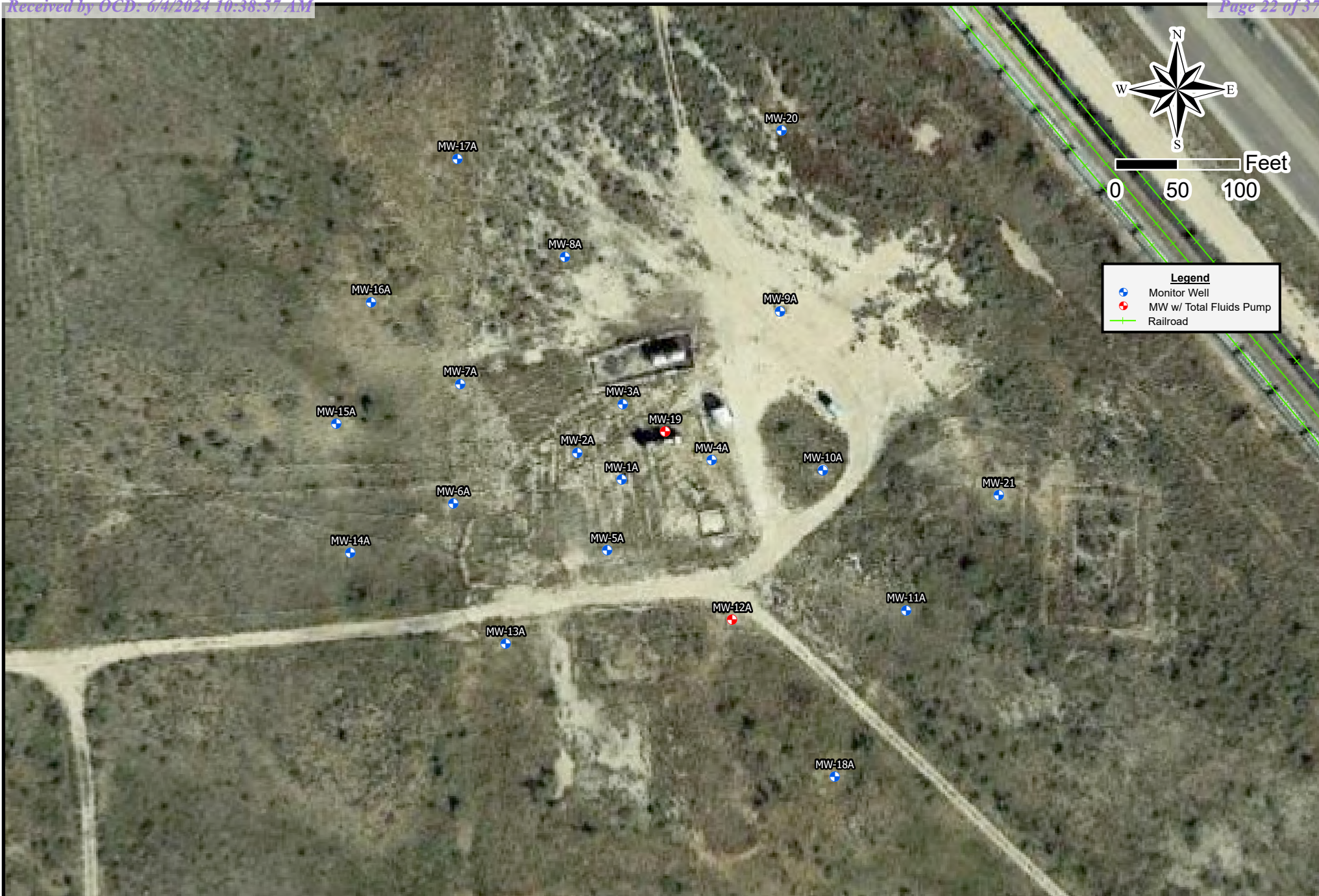
Based upon the results of the quarterly groundwater monitoring and PSH recovery efforts, Talon/LPE proposes the following actions:

- Perform quarterly groundwater monitoring events in accordance with NMOCD directives.
- Continue operation and maintenance of the groundwater recovery system.
- Install additional monitoring wells to compensate for the declining water levels.
- Plug and abandon monitor well MW-20.



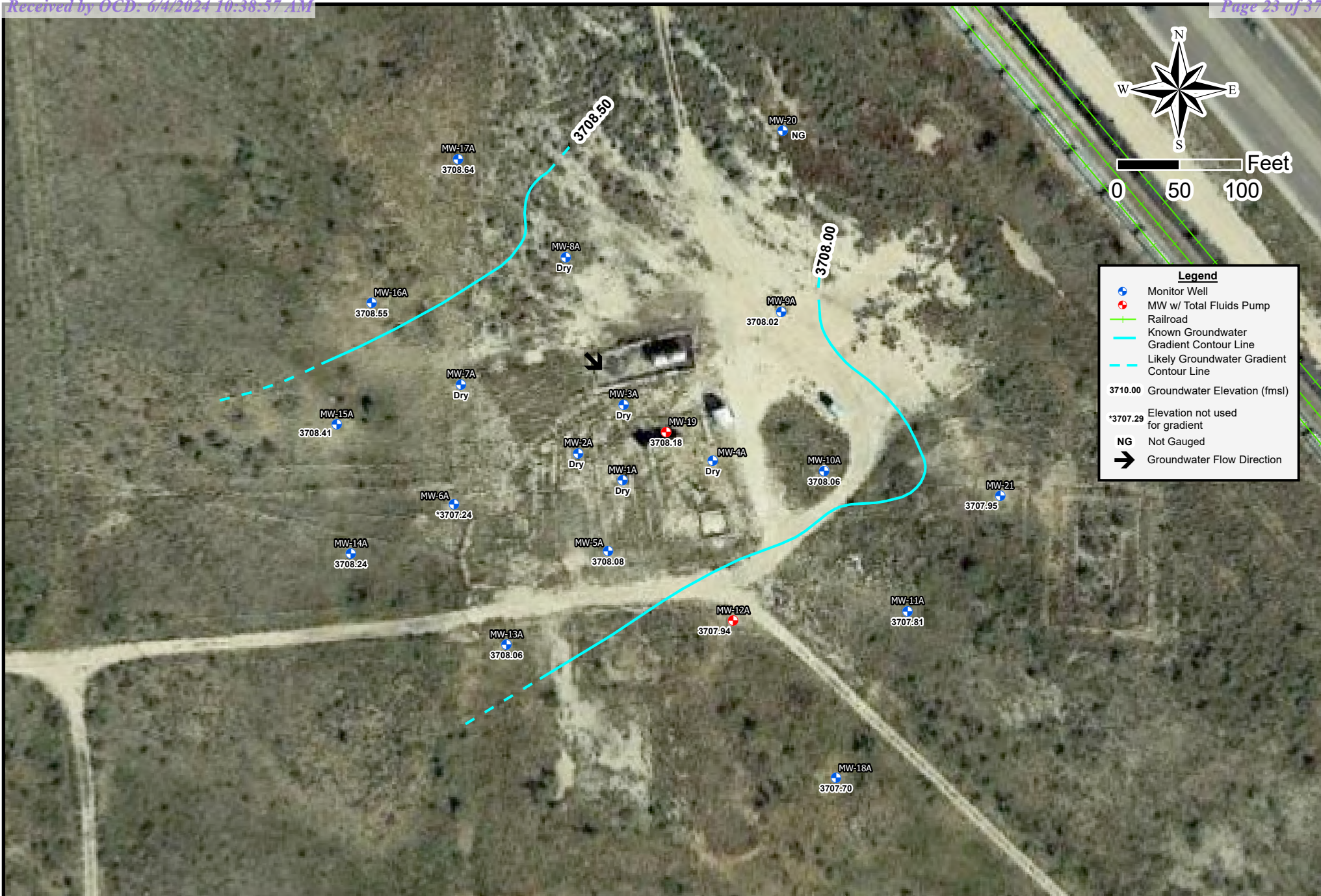
APPENDIX A

Figures



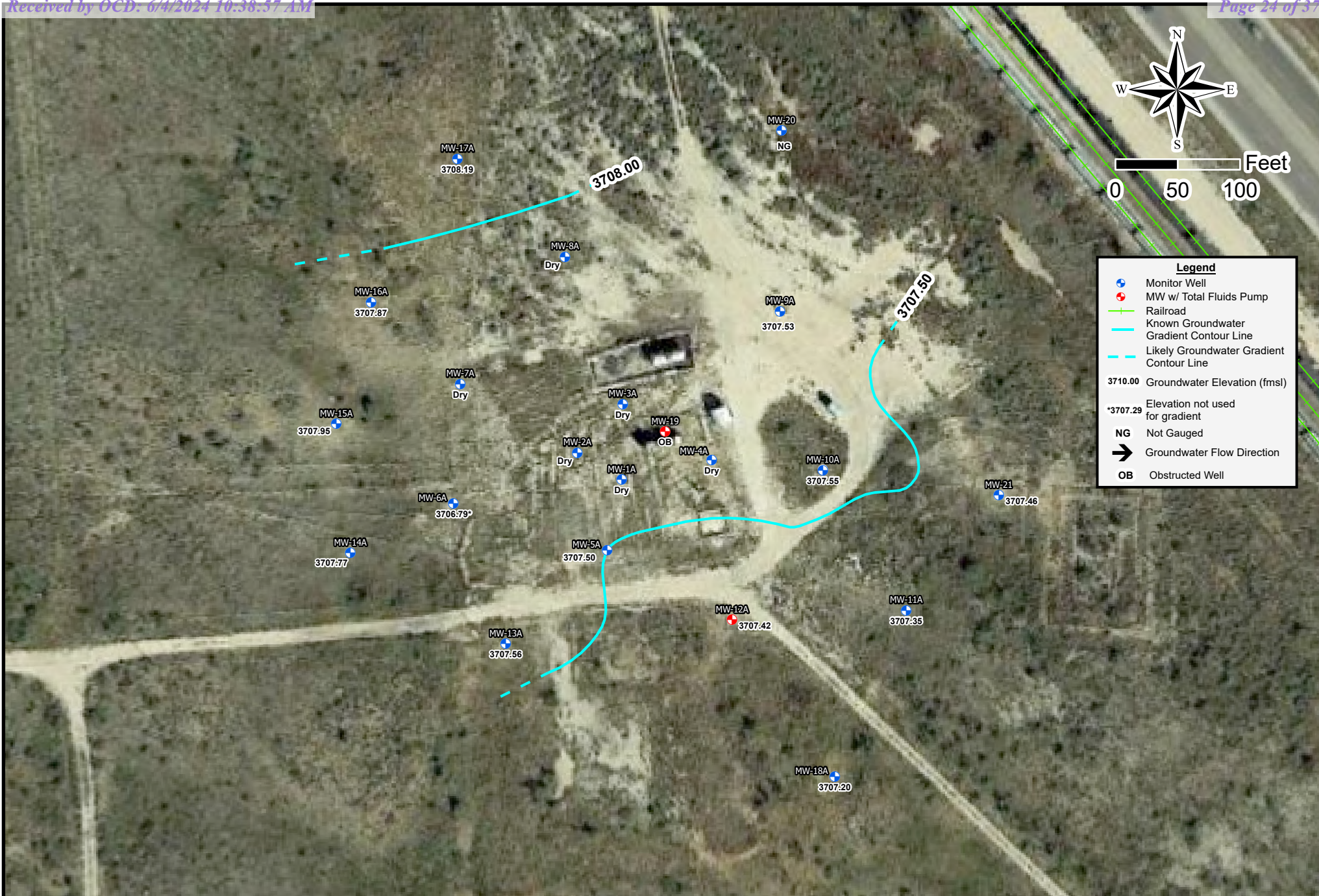
Date: 3/9/2023
 1 in = 100 ft
 Drafted By: IJR

C.S. Caylor
 SRS # 2002-10250, NMOCD REF. #nAPP2109527803
 NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
 32.867769, -103.28804
 Figure 1 - Site Plan



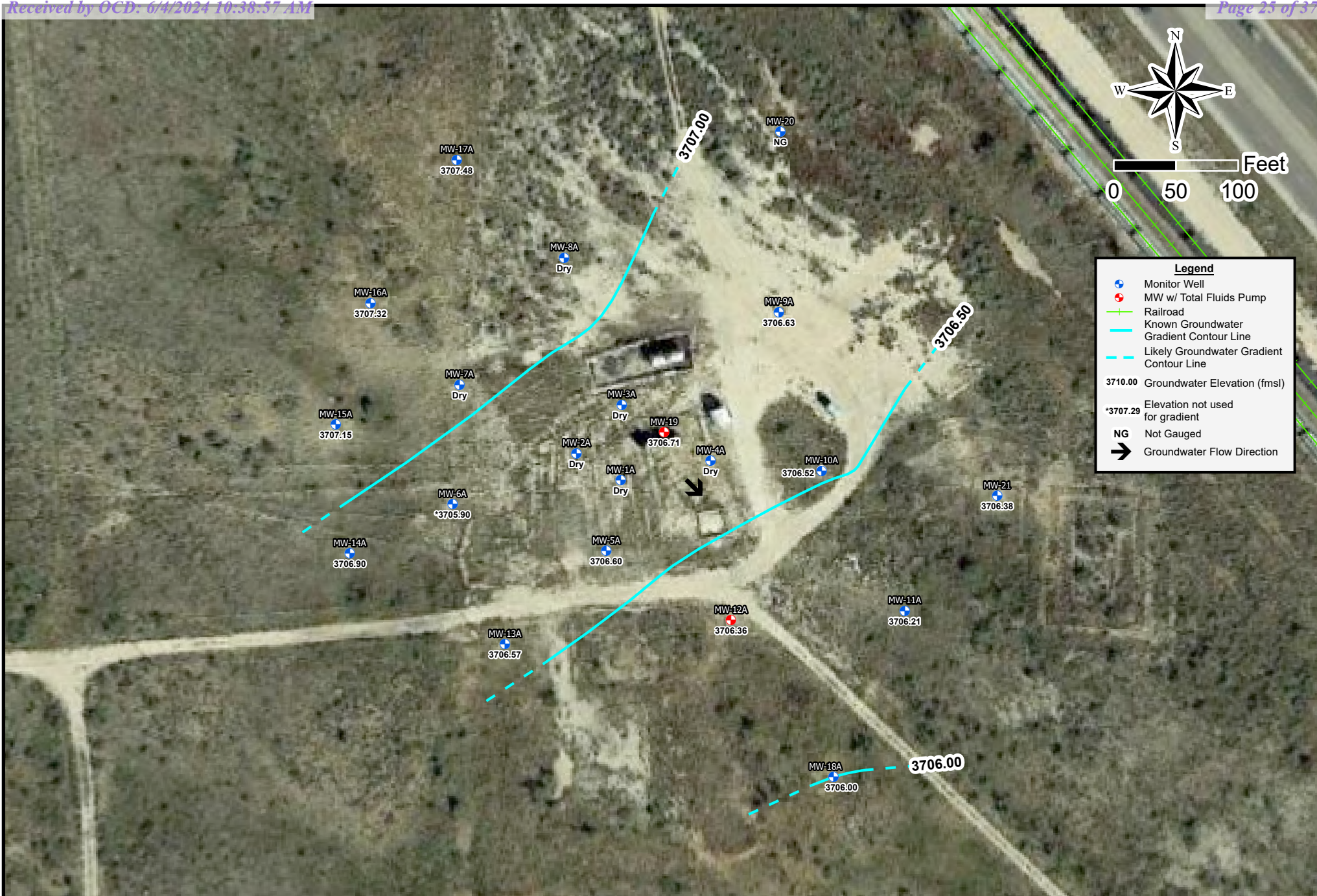
Date: 5/11/2023
1 in = 100 ft
Drafted By: IJR

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 2a - Groundwater Gradient Map (03/17/2023)



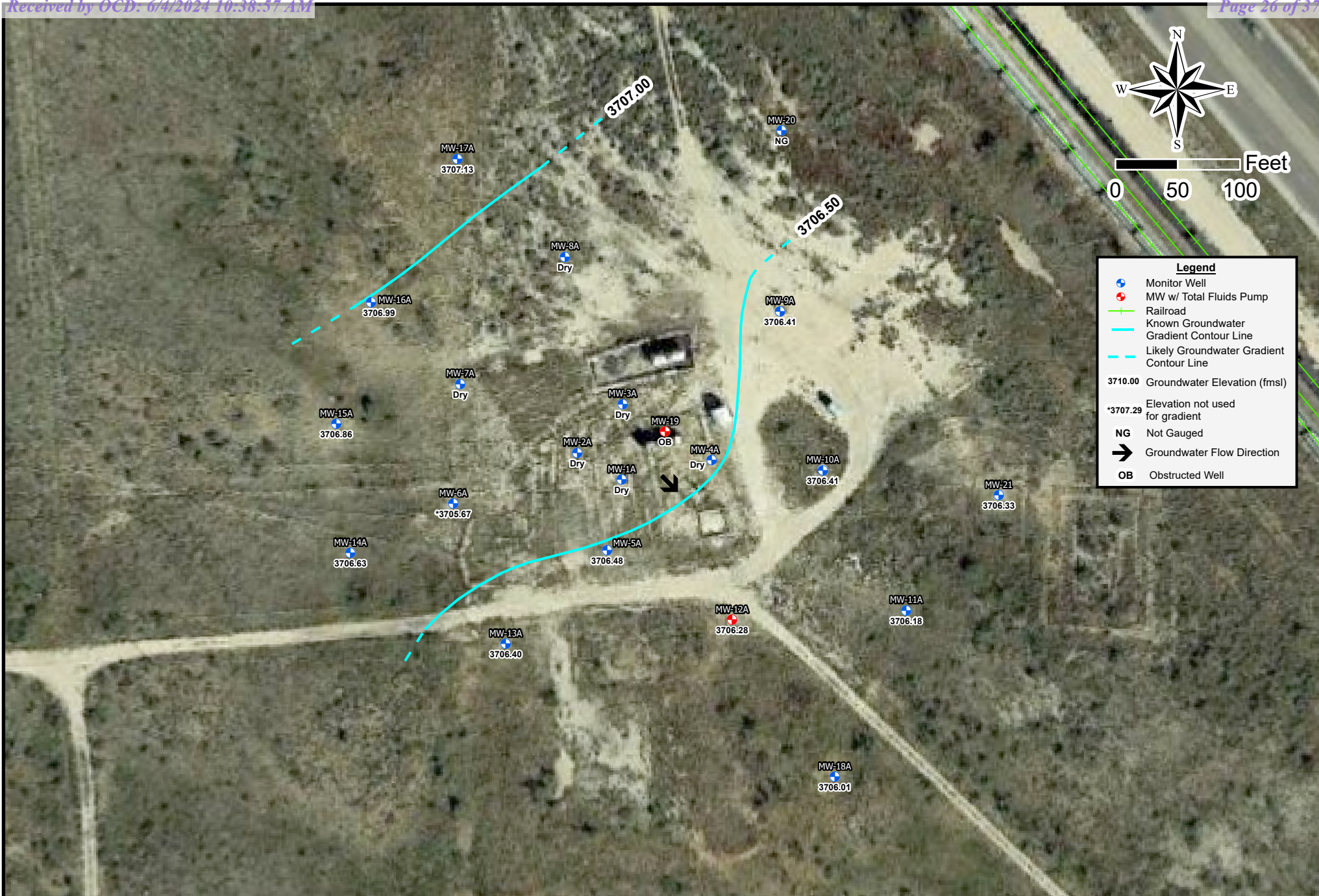
Date: 3/5/2024
1 in = 100 ft
Drafted By: IJR

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 2b - Groundwater Gradient Map (06/16/2023)



Date: 10/20/2023
 1 in = 100 ft
 Drafted By: IJR

C.S. Caylor
 SRS # 2002-10250, NMOCDF REF. #nAPP2109527803
 NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
 32.867769, -103.28804
 Figure 2c - Groundwater Gradient Map (09/18/2023)



Date: 2/1/2024
1 in = 100 ft
Drafted By: IJR

C.S. Caylor
SRS # 2002-10250, NMOCDF REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 2d - Groundwater Gradient Map (12/18/2023)



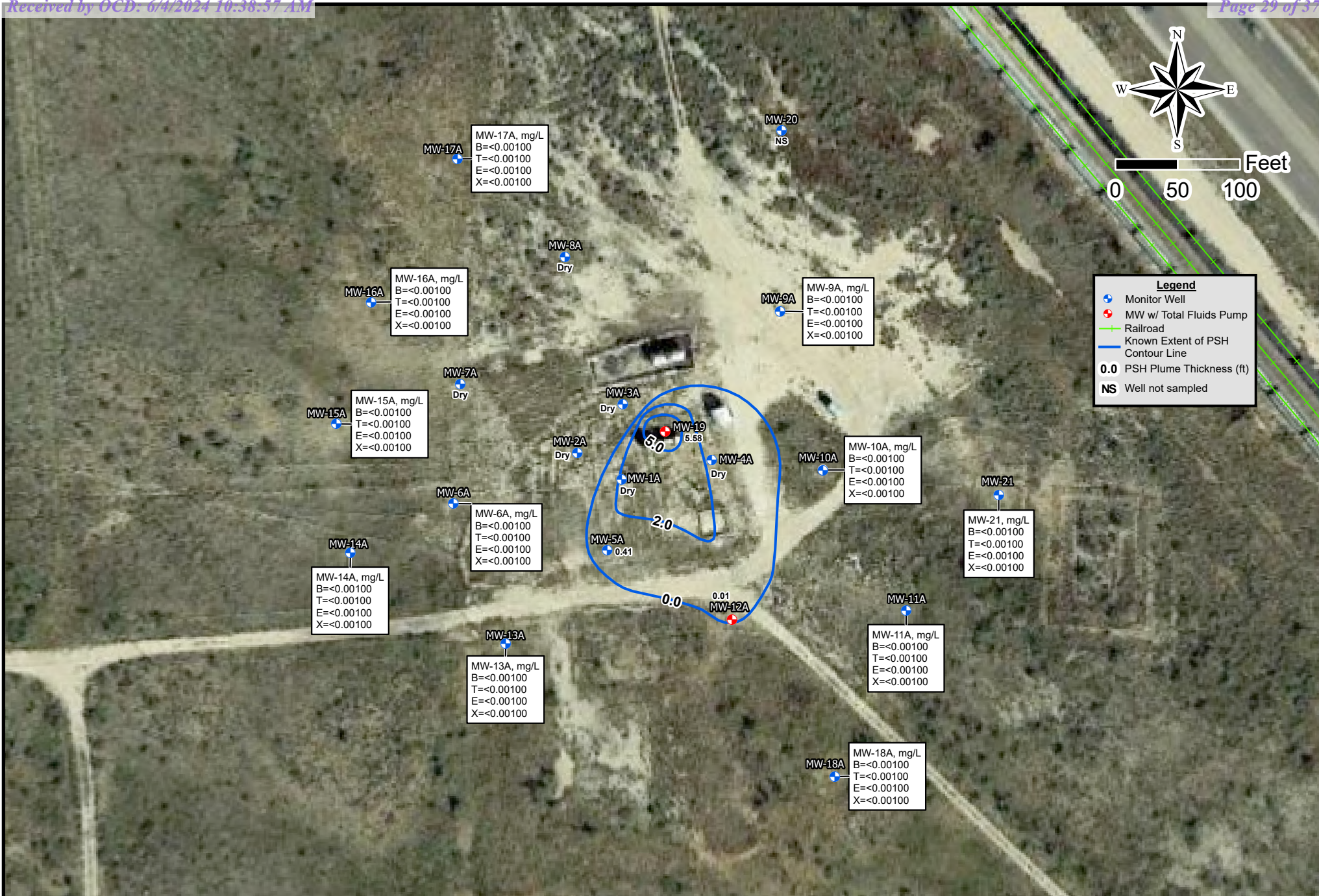
Date: 3/5/2024
1 in = 100 ft
Drafted By: IJR

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 3a - PSH Thickness & Groundwater Concentration Map (03/17, 20-22/2023)



Date: 3/6/2024
1 in = 100 ft
Drafted By: IJR

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 3b - PSH Thickness & Groundwater Concentration Map (06/16, 20-21 & 08/23-24/2023)



Date: 3/6/2024
1 in = 100 ft
Drafted By: IJR

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 3c - PSH Thickness & Groundwater Concentration Map (09/18-20/2023)



Date: 2/2/2024
1 in = 100 ft
Drafted By: IJR

C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 3d - PSH Thickness & Groundwater Concentration Map (12/18-20/2023)



APPENDIX B

Tables

Table 1 - Groundwater Gauging and NAPL Thickness - Historical

CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-1A 4"	3810.14	76.2	96.2	03/21/2016	95.96	91.70	4.26	3717.74
				06/16/2016	92.78	92.08	0.70	3717.94
				09/13/2016	95.83	92.98	2.85	3716.69
				11/29/2016	95.88	92.91	2.97	3716.74
				03/13/2017	95.85	92.90	2.95	3716.75
				06/07/2017	96.00	93.18	2.82	3716.49
				09/18/2017	95.61	94.01	1.60	3715.87
				12/13/2017	95.85	93.90	1.95	3715.92
				03/23/2018	95.87	93.91	1.96	3715.91
				06/13/2018	95.90	94.60	1.30	3715.33
				09/25/2018	96.01	95.60	0.41	3714.47
				12/12/2018	95.92	95.45	0.47	3714.61
				03/21/2019	95.91	95.31	0.60	3714.73
				06/13/2019	95.87	95.65	0.22	3714.45
				09/18/2019	DR	-	-	-
				12/08/2019	DR	-	-	-
				03/11/2020	95.92	95.90	0.02	3714.24
				05/01/2020	DR	-	-	-
				06/08/2020	98.36	96.48	1.88	3713.35
				09/23/2020	DR	-	-	-
				12/10/2020	DR	-	-	-
				03/10/2021	DR	-	-	-
				06/11/2021	DR	-	-	-
				09/15/2021	DR	-	-	-
				12/13/2021	DR	-	-	-
				03/18/2022	DR	-	-	-
				06/20/2022	DR	-	-	-
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-
MW-2 4"	3807.38	68.1	88.1	06/16/2016	PA	-	-	-
MW-2A 4"	3810.14	79	109	03/21/2016	NL	-	-	-
				06/16/2016	NL	-	-	-
				09/13/2016	NL	-	-	-
				11/29/2016	98.81	92.77	6.04	3716.37
				03/13/2017	98.75	92.77	5.98	3716.38
				06/07/2017	DR	-	-	-
				09/18/2017	99.54	93.83	5.71	3715.37
				12/13/2017	100.05	93.80	6.25	3715.31
				03/23/2018	102.20	93.79	8.41	3714.96
				06/13/2018	102.20	94.48	7.72	3714.39
				09/25/2018	100.80	95.35	5.45	3713.89
				12/12/2018	100.80	95.30	5.50	3713.93
				03/21/2019	103.27	95.15	8.12	3713.65
				06/13/2019	102.35	95.50	6.85	3713.51
				09/18/2019	102.25	96.46	5.79	3712.72
				12/08/2019	102.56	96.10	6.46	3712.97
				03/11/2020	103.95	95.87	8.08	3712.94
				05/01/2020	104.85	96.20	8.65	3712.51
				06/08/2020	DR	-	-	-
				09/23/2020	104.00	97.50	6.50	3711.57
				12/10/2020	102.75	97.74	5.01	3711.57
				03/10/2021	101.91	98.68	3.23	3710.93
				06/11/2021	101.91	98.17	3.74	3711.35
				09/15/2021	102.30	98.90	3.40	3710.68
				12/13/2021	DR	-	-	-
				03/18/2022	DR	-	-	-
				06/20/2022	DR	-	-	-
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-

Table 1 - Groundwater Gauging and NAPL Thickness - Historical

CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-3A 4"	3810.47	83	113	03/21/2016	NL	-	-	-
				06/16/2016	93.85	93.38	0.47	3717.01
				09/13/2016	95.07	94.18	0.89	3716.14
				11/29/2016	94.20	-	-	3716.27
				03/13/2017	94.31	94.25	0.06	3716.21
				06/07/2017	94.90	94.56	0.34	3715.85
				09/18/2017	95.58	95.42	0.16	3715.02
				12/13/2017	95.45	93.80	1.65	3716.40
				03/23/2018	95.68	95.22	0.46	3715.17
				06/13/2018	96.35	96.00	0.35	3714.41
				09/25/2018	97.36	97.02	0.34	3713.39
				12/12/2018	97.30	96.70	0.60	3713.67
				03/21/2019	97.14	96.31	0.83	3714.02
				06/13/2019	97.92	96.91	1.01	3713.39
				09/18/2019	98.57	97.74	0.83	3712.59
				12/08/2019	98.75	97.20	1.55	3713.01
				03/11/2020	97.12	96.83	0.29	3713.59
				05/01/2020	98.80	97.30	1.50	3712.92
				06/08/2020	98.45	97.20	1.25	3713.06
				09/23/2020	99.50	98.05	1.45	3712.18
				12/10/2020	99.49	98.25	1.24	3712.02
				03/10/2021	99.35	98.11	1.24	3712.16
				06/11/2021	99.52	98.62	0.90	3711.70
				09/15/2021	99.52	99.33	0.19	3711.11
				12/13/2021	DR	-	-	-
				03/18/2022	DR	-	-	-
				06/20/2022	DR	-	-	-
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-
MW-4A 4"	3810.45	75	105	03/21/2016	97.85	92.30	5.55	3717.23
				06/16/2016	97.55	92.85	4.70	3716.82
				09/13/2016	98.57	93.66	4.91	3715.98
				11/29/2016	98.35	93.45	4.90	3716.19
				03/13/2017	98.60	93.50	5.10	3716.11
				06/07/2017	99.10	93.80	5.30	3715.78
				09/18/2017	100.56	94.55	6.01	3714.91
				12/13/2017	100.01	95.24	4.77	3714.42
				03/23/2018	99.55	94.54	5.01	3715.08
				06/13/2018	98.69	95.68	3.01	3714.27
				09/25/2018	101.11	96.48	4.63	3713.21
				12/12/2018	101.30	96.10	5.20	3713.49
				03/21/2019	99.61	95.98	3.63	3713.87
				06/13/2019	99.72	96.56	3.16	3713.37
				09/18/2019	101.31	97.23	4.08	3712.55
				12/08/2019	101.25	96.75	4.50	3712.96
				03/11/2020	99.65	96.58	3.07	3713.36
				05/01/2020	106.60	96.95	9.65	3711.91
				06/08/2020	99.75	97.15	2.60	3712.87
				09/23/2020	OB	-	-	-
				12/10/2020	OB	-	-	-
				03/10/2021	101.31	97.23	4.08	3712.55
				06/11/2021	OBS	-	-	-
				09/15/2021	OBS	-	-	-
				09/29/2021	101.49	99.70	1.79	3710.45
				12/13/2021	101.50	99.90	1.60	3710.29
				03/18/2022	101.20	99.90	1.30	3710.34
				06/20/2022	101.42	100.46	0.96	3709.83
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-

Table 1 - Groundwater Gauging and NAPL Thickness - Historical

CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-5 4"	3809.29	73.4	93.4	03/21/2016	93.05	90.85	2.20	3718.08
MW-5A 4"	3809.30	75	109	06/16/2016	PA	-	-	-
				06/16/2016	92.58	92.50	0.08	3716.79
				09/13/2016	98.33	92.32	6.01	3715.99
				11/29/2016	96.89	92.36	4.53	3716.19
				03/13/2017	97.96	92.23	5.73	3716.12
				06/07/2017	98.10	92.56	5.54	3715.83
				09/18/2017	99.72	93.33	6.39	3714.92
				12/13/2017	98.80	93.30	5.50	3715.09
				03/23/2018	99.02	93.26	5.76	3715.09
				06/13/2018	100.25	93.95	6.30	3714.31
				09/25/2018	101.70	94.28	7.42	3713.80
				12/12/2018	101.15	94.70	6.45	3713.54
				03/21/2019	99.66	94.51	5.15	3713.94
				06/13/2019	98.95	94.94	4.01	3713.70
				09/18/2019	101.86	96.00	5.86	3712.33
				12/08/2019	100.20	95.67	4.53	3712.88
				03/11/2020	99.35	95.25	4.10	3713.37
				05/01/2020	101.40	95.85	5.55	3712.53
				06/08/2020	101.10	96.15	4.95	3712.33
				09/23/2020	97.00	96.90	0.10	3712.38
				12/10/2020	104.02	97.36	6.66	3710.84
				03/10/2021	102.97	97.32	5.65	3711.05
				06/11/2021	98.46	98.40	0.06	3710.89
				09/29/2021	99.40	99.39	0.01	3709.91
				12/13/2021	103.78	98.72	5.06	3709.75
				03/18/2022	101.60	99.25	2.35	3709.66
				06/20/2022	103.78	99.33	4.45	3709.24
				09/19/2022	102.14	101.12	1.02	3708.01
				12/19/2022	102.96	100.87	2.09	3708.09
				03/17/2023	101.82	101.10	0.72	3708.08
				06/16/2023	101.81	101.80	0.01	3707.50
				09/18/2023	103.04	102.63	0.41	3706.60
				12/18/2023	102.95	102.80	0.15	3706.48
MW-6A 4"	3809.04	83	114	03/21/2016	92.61	-	-	3716.43
				06/16/2016	93.04	-	-	3716.00
				09/13/2016	93.88	-	-	3715.16
				11/29/2016	93.72	-	-	3715.32
				03/13/2017	93.46	-	-	3715.58
				06/07/2017	94.12	-	-	3714.92
				09/18/2017	94.99	-	-	3714.05
				12/13/2017	94.87	-	-	3714.17
				03/23/2018	94.85	-	-	3714.19
				06/13/2018	95.55	-	-	3713.49
				09/25/2018	96.56	-	-	3712.48
				12/12/2018	96.56	-	-	3712.48
				03/21/2019	96.05	-	-	3712.99
				06/13/2019	96.60	-	-	3712.44
				09/18/2019	97.52	-	-	3711.52
				12/08/2019	97.05	-	-	3711.99
				03/11/2020	96.53	-	-	3712.51
				05/01/2020	97.20	-	-	3711.84
				06/05/2020	97.60	-	-	3711.44
				09/23/2020	98.80	-	-	3710.24
				12/09/2020	98.85	-	-	3710.19
				03/10/2021	98.80	-	-	3710.24
				06/11/2021	99.31	-	-	3709.73
				09/14/2021	99.94	-	-	3709.10
				12/13/2021	100.25	-	-	3708.79
				03/18/2022	100.20	-	-	3708.84
				06/20/2022	100.81	-	-	3708.23
				09/19/2022	101.75	-	-	3707.29
				12/19/2022	101.77	-	-	3707.27
				03/17/2023	101.80	-	-	3707.24
				06/16/2023	102.25	-	-	3706.79
				09/18/2023	103.14	-	-	3705.90
				12/18/2023	103.37	-	-	3705.67

Table 1 - Groundwater Gauging and NAPL Thickness - Historical

CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-7A 4"	3810.63	71	101	03/21/2016	96.71	92.60	4.11	3717.35
				06/16/2016	97.30	92.74	4.56	3717.14
				09/13/2016	94.95	94.00	0.95	3716.47
				11/29/2016	94.35	94.27	0.08	3716.35
				03/13/2017	96.40	93.90	2.50	3716.32
				06/07/2017	94.69	94.60	0.09	3716.02
				09/18/2017	95.55	95.40	0.15	3715.21
				12/13/2017	95.92	95.20	0.72	3715.31
				03/23/2018	96.94	94.97	1.97	3715.33
				06/13/2018	96.30	96.02	0.28	3714.56
				09/24/2018	97.38	97.01	0.37	3713.56
				12/12/2018	97.10	96.85	0.25	3713.74
				03/21/2019	96.88	96.55	0.33	3714.03
				06/13/2019	96.90	96.89	0.01	3713.74
				09/18/2019	99.70	97.12	2.58	3713.08
				12/08/2019	99.78	96.90	2.88	3713.25
				03/11/2020	98.55	96.78	1.77	3713.56
				05/01/2020	99.75	96.92	2.83	3713.24
				06/05/2020	99.70	97.16	2.54	3713.05
				09/23/2020	99.82	98.25	1.57	3712.12
				12/09/2020	99.76	98.45	1.31	3711.96
				03/10/2021	99.05	98.45	0.60	3712.08
				06/11/2021	99.82	98.97	0.85	3710.81
				09/15/2021	99.86	99.58	0.28	3711.00
				12/13/2021	DR	-	-	-
				03/18/2022	DR	-	-	-
				06/20/2022	DR	-	-	-
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-
MW-8A 4"	3810.73	73	103	03/21/2016	93.26	-	-	3717.47
				06/16/2016	93.55	-	-	3717.18
				09/13/2016	94.35	-	-	3716.38
				11/29/2016	94.27	-	-	3716.46
				03/13/2017	94.02	-	-	3716.71
				06/07/2017	94.67	-	-	3716.06
				09/18/2017	95.45	-	-	3715.28
				12/13/2017	95.40	-	-	3715.33
				03/23/2018	95.38	-	-	3715.35
				06/13/2018	96.06	-	-	3714.67
				09/25/2018	97.05	-	-	3713.68
				12/12/2018	96.91	-	-	3713.82
				03/21/2019	96.65	-	-	3714.08
				06/13/2019	97.12	-	-	3713.61
				09/18/2019	97.96	-	-	3712.77
				12/08/2019	97.60	-	-	3713.13
				03/11/2020	97.15	-	-	3713.58
				05/01/2020	97.72	-	-	3713.01
				06/05/2020	98.11	-	-	3712.62
				09/23/2020	99.00	-	-	3711.73
				12/09/2020	99.34	-	-	3711.39
				03/10/2021	99.33	-	-	3711.40
				06/11/2021	99.82	-	-	3710.91
				09/14/2021	100.38	-	-	3710.35
				12/13/2021	100.75	-	-	3709.98
				03/18/2022	100.73	-	-	3710.00
				06/20/2022	101.29	-	-	3709.44
				09/19/2022	DR	-	-	-
				12/19/2022	DR	-	-	-
				03/17/2023	DR	-	-	-
				06/16/2023	DR	-	-	-
				09/18/2023	DR	-	-	-
				12/18/2023	DR	-	-	-

Table 1 - Groundwater Gauging and NAPL Thickness - Historical

CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-9A 2"	3810.73	77	107	03/21/2016	93.63	-	-	3717.10
				06/16/2016	94.00	-	-	3716.73
				09/13/2016	94.81	-	-	3715.92
				11/29/2016	94.68	-	-	3716.05
				03/13/2017	94.40	-	-	3716.33
				06/07/2017	95.08	-	-	3715.65
				09/18/2017	95.91	-	-	3714.82
				12/13/2017	95.77	-	-	3714.96
				03/23/2018	95.77	-	-	3714.96
				06/13/2018	96.48	-	-	3714.25
				09/25/2018	97.54	-	-	3713.19
				12/12/2018	94.86	-	-	3715.87
				03/21/2019	97.01	-	-	3713.72
				06/13/2019	97.55	-	-	3713.18
				09/18/2019	98.48	-	-	3712.25
				12/08/2019	97.95	-	-	3712.78
				03/11/2020	97.45	-	-	3713.28
				05/01/2020	98.15	-	-	3712.58
				06/05/2020	98.53	-	-	3712.20
				09/23/2020	DR	-	-	-
				12/09/2020	99.84	-	-	3710.89
				03/10/2021	99.73	-	-	3711.00
				06/11/2021	100.23	-	-	3710.50
				09/14/2021	100.86	-	-	3709.87
				12/13/2021	101.22	-	-	3709.51
				03/18/2022	101.15	-	-	3709.58
				06/20/2022	101.76	-	-	3708.97
				09/19/2022	102.70	-	-	3708.03
				12/19/2022	102.85	-	-	3707.88
				03/17/2023	102.71	-	-	3708.02
				06/16/2023	103.20	-	-	3707.53
				09/18/2023	104.10	-	-	3706.63
				12/18/2023	104.32	-	-	3706.41
MW-10A 2"	3810.41	84	114	03/21/2016	93.24	-	-	3717.17
				06/16/2016	93.68	-	-	3716.73
				09/13/2016	94.55	-	-	3715.86
				11/29/2016	94.26	-	-	3716.15
				03/13/2017	94.00	-	-	3716.41
				06/07/2017	94.72	-	-	3715.69
				09/18/2017	95.64	-	-	3714.77
				12/13/2017	95.35	-	-	3715.06
				03/23/2018	95.45	-	-	3714.96
				06/13/2018	96.16	-	-	3714.25
				09/25/2018	97.30	-	-	3713.11
				12/12/2018	96.93	-	-	3713.48
				03/21/2019	96.59	-	-	3713.82
				06/13/2019	97.20	-	-	3713.21
				09/18/2019	98.21	-	-	3712.20
				12/08/2019	97.56	-	-	3712.85
				03/11/2020	97.00	-	-	3713.41
				05/01/2020	97.80	-	-	3712.61
				06/05/2020	98.22	-	-	3712.19
				09/23/2020	99.25	-	-	3711.16
				12/09/2020	99.47	-	-	3710.94
				03/10/2021	99.37	-	-	3711.04
				06/11/2021	99.87	-	-	3710.54
				09/14/2021	100.62	-	-	3709.79
				12/13/2021	100.90	-	-	3709.51
				03/18/2022	100.85	-	-	3709.56
				06/20/2022	101.50	-	-	3708.91
				09/19/2022	102.46	-	-	3707.95
				12/19/2022	102.35	-	-	3708.06
				03/17/2023	102.35	-	-	3708.06
				06/16/2023	102.86	-	-	3707.55
				09/18/2023	103.89	-	-	3706.52
				12/18/2023	104.00	-	-	3706.41

Table 1 - Groundwater Gauging and NAPL Thickness - Historical

CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-11A 2"	3808.99	83	113	03/21/2016	91.93	-	-	3717.06
				06/16/2016	92.45	-	-	3716.54
				09/13/2016	93.35	-	-	3715.64
				11/29/2016	93.03	-	-	3715.96
				03/13/2017	92.71	-	-	3716.28
				06/07/2017	93.49	-	-	3715.50
				09/18/2017	94.49	-	-	3714.50
				12/13/2017	94.12	-	-	3714.87
				03/23/2018	94.21	-	-	3714.78
				06/13/2018	94.96	-	-	3714.03
				09/25/2018	96.91	-	-	3712.08
				12/12/2018	95.03	-	-	3713.96
				03/21/2019	95.27	-	-	3713.72
				06/13/2019	96.00	-	-	3712.99
				09/18/2019	97.05	-	-	3711.94
				12/08/2019	96.27	-	-	3712.72
				03/11/2020	95.68	-	-	3713.31
				05/01/2020	96.55	-	-	3712.44
				06/05/2020	96.97	-	-	3712.02
				09/23/2020	98.15	-	-	3710.84
				12/09/2020	98.27	-	-	3710.72
				03/10/2021	98.13	-	-	3710.86
				06/11/2021	98.62	-	-	3710.37
				09/14/2021	99.46	-	-	3709.53
				12/13/2021	99.72	-	-	3709.27
				03/18/2022	99.60	-	-	3709.39
				06/20/2022	100.33	-	-	3708.66
				09/19/2022	101.36	-	-	3707.63
				12/19/2022	101.13	-	-	3707.86
				03/17/2023	101.18	-	-	3707.81
				06/16/2023	101.64	-	-	3707.35
				09/18/2023	102.78	-	-	3706.21
				12/18/2023	102.81	-	-	3706.18
MW-12 2"	3809.81	70.8	90.8	06/16/2016	PA	-	-	-
MW-12A 4"	3808.98	79	109	03/21/2016	91.90	-	-	3717.08
				06/16/2016	92.02	-	-	3716.96
				09/13/2016	93.25	-	-	3715.73
				11/29/2016	92.98	-	-	3716.00
				03/13/2017	92.70	-	-	3716.28
				06/07/2017	93.40	-	-	3715.58
				09/18/2017	94.38	-	-	3714.60
				12/13/2017	94.09	-	-	3714.89
				03/23/2018	94.50	-	-	3714.48
				06/13/2018	94.85	-	-	3714.13
				09/25/2018	96.09	-	-	3712.89
				12/12/2018	95.61	-	-	3713.37
				03/21/2019	95.25	-	-	3713.73
				06/13/2019	95.94	-	-	3713.04
				09/18/2019	96.99	96.95	0.04	3712.02
				12/08/2019	96.55	96.20	0.35	3712.72
				03/11/2020	96.10	95.80	0.30	3713.13
				05/01/2020	97.22	96.35	0.87	3712.49
				06/05/2020	97.80	96.75	1.05	3712.06
				09/23/2020	99.40	97.80	1.60	3710.92
				12/09/2020	99.90	97.91	1.99	3710.74
				03/10/2021	100.13	97.70	2.43	3710.88
				06/11/2021	98.82	98.54	0.28	3710.39
				09/29/2021	99.40	99.39	0.01	3709.59
				12/13/2021	99.63	99.62	0.01	3709.36
				03/18/2022	99.50	-	-	3709.48
				06/20/2022	100.26	100.25	0.01	3708.73
				09/19/2022	101.21	101.20	0.01	3707.78
				12/19/2022	101.05	101.04	0.01	3707.94
				03/17/2023	101.05	101.04	0.01	3707.94
				06/16/2023	101.56	-	-	3707.42
				09/18/2023	102.63	102.62	0.01	3706.36
				12/18/2023	102.71	102.70	0.01	3706.28

Table 1 - Groundwater Gauging and NAPL Thickness - Historical

CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-13A 4"	3809.49	78	108	03/21/2016	92.28	-	-	3717.21
				06/16/2016	92.72	-	-	3716.77
				09/13/2016	93.60	-	-	3715.89
				11/29/2016	93.37	-	-	3716.12
				03/13/2017	93.07	-	-	3716.42
				06/07/2017	93.76	-	-	3715.73
				09/18/2017	94.68	-	-	3714.81
				12/13/2017	94.48	-	-	3715.01
				03/23/2018	94.50	-	-	3714.99
				06/13/2018	95.20	-	-	3714.29
				09/25/2018	96.38	-	-	3713.11
				12/12/2018	96.00	-	-	3713.49
				03/21/2019	95.62	-	-	3713.87
				06/13/2019	96.27	-	-	3713.22
				09/18/2019	97.26	-	-	3712.23
				12/08/2019	96.68	-	-	3712.81
				03/11/2020	96.13	-	-	3713.36
				05/01/2020	96.87	-	-	3712.62
				06/05/2020	97.27	-	-	3712.22
				09/23/2020	98.35	-	-	3711.14
				12/09/2020	98.56	-	-	3710.93
				03/10/2021	98.46	-	-	3711.03
				06/11/2021	98.95	-	-	3710.54
				09/14/2021	99.66	-	-	3709.83
				12/13/2021	99.95	-	-	3709.54
				03/18/2022	99.87	-	-	3709.62
				06/20/2022	100.53	-	-	3708.96
				09/19/2022	101.54	-	-	3707.95
				12/19/2022	101.40	-	-	3708.09
				03/17/2023	101.43	-	-	3708.06
				06/16/2023	101.93	-	-	3707.56
				09/18/2023	102.92	-	-	3706.57
				12/18/2023	103.09	-	-	3706.40
MW-14A 2"	3809.93	84	114	03/21/2016	92.51	-	-	3717.42
				06/16/2016	92.97	-	-	3716.96
				09/13/2016	93.78	-	-	3716.15
				11/29/2016	93.66	-	-	3716.27
				03/13/2017	93.35	-	-	3716.58
				06/07/2017	94.02	-	-	3715.91
				09/18/2017	94.87	-	-	3715.06
				12/13/2017	94.77	-	-	3715.16
				03/23/2018	94.77	-	-	3715.16
				06/13/2018	95.46	-	-	3714.47
				09/25/2018	96.52	-	-	3713.41
				12/12/2018	97.23	-	-	3712.70
				03/21/2019	95.98	-	-	3713.95
				06/13/2019	96.44	-	-	3713.49
				09/18/2019	97.42	-	-	3712.51
				12/08/2019	96.96	-	-	3712.97
				03/11/2020	96.44	-	-	3713.49
				05/01/2020	97.12	-	-	3712.81
				06/05/2020	97.50	-	-	3712.43
				09/23/2020	98.50	-	-	3711.43
				12/09/2020	99.77	-	-	3710.16
				03/10/2021	98.73	-	-	3711.20
				06/11/2021	98.22	-	-	3711.71
				09/14/2021	99.83	-	-	3710.10
				12/13/2021	100.20	-	-	3709.73
				03/18/2022	100.13	-	-	3709.80
				06/20/2022	100.71	-	-	3709.22
				09/19/2022	101.65	-	-	3708.28
				12/19/2022	101.62	-	-	3708.31
				03/17/2023	101.69	-	-	3708.24
				06/16/2023	102.16	-	-	3707.77
				09/18/2023	103.03	-	-	3706.90
				12/18/2023	103.30	-	-	3706.63

Table 1 - Groundwater Gauging and NAPL Thickness - Historical

CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-15 2"	3810.93	72.2	92.2	03/21/2016	DR	-	-	-
				06/16/2016	PA	-	-	-
MW-15A 2"	3810.76	75	120	07/12/2016	93.79	-	-	3716.97
				09/13/2016	94.40	-	-	3716.36
				11/29/2016	94.30	-	-	3716.46
				03/13/2017	94.05	-	-	3716.71
				06/07/2017	94.68	-	-	3716.08
				09/18/2017	95.48	-	-	3715.28
				12/13/2017	95.44	-	-	3715.32
				03/23/2018	95.41	-	-	3715.35
				06/13/2018	96.10	-	-	3714.66
				09/25/2018	97.04	-	-	3713.72
				12/12/2018	97.00	-	-	3713.76
				03/21/2019	96.66	-	-	3714.10
				06/13/2019	97.13	-	-	3713.63
				09/18/2019	98.03	-	-	3712.73
				12/08/2019	97.65	-	-	3713.11
				03/11/2020	97.10	-	-	3713.66
				05/01/2020	97.77	-	-	3712.99
				06/05/2020	98.15	-	-	3712.61
				09/23/2020	99.12	-	-	3711.64
				12/09/2020	99.37	-	-	3711.39
				03/10/2021	99.39	-	-	3711.37
				06/11/2021	99.87	-	-	3710.89
				09/14/2021	100.44	-	-	3710.32
				12/13/2021	100.80	-	-	3709.96
				03/18/2022	100.75	-	-	3710.01
				06/20/2022	101.33	-	-	3709.43
				09/19/2022	102.20	-	-	3708.56
				12/19/2022	102.25	-	-	3708.51
				03/17/2023	102.35	-	-	3708.41
				06/16/2023	102.81	-	-	3707.95
				09/18/2023	103.61	-	-	3707.15
				12/18/2023	103.90	-	-	3706.86
MW-16 2"	3812.23	71.2	91.2	03/21/2016	DR	-	-	-
				06/16/2016	PA	-	-	-
MW-16A 2"	3811.72	75	120	07/12/2016	94.61	-	-	3717.11
				09/13/2016	95.22	-	-	3716.50
				11/29/2016	95.20	-	-	3716.52
				03/13/2017	94.93	-	-	3716.79
				06/07/2017	95.54	-	-	3716.18
				09/18/2017	96.30	-	-	3715.42
				12/13/2017	96.31	-	-	3715.41
				03/23/2018	96.27	-	-	3715.45
				06/13/2018	96.96	-	-	3714.76
				09/25/2018	97.88	-	-	3713.84
				12/12/2018	97.80	-	-	3713.92
				03/21/2019	97.54	-	-	3714.18
				06/13/2019	97.97	-	-	3713.75
				09/18/2019	98.85	-	-	3712.87
				12/08/2019	98.50	-	-	3713.22
				03/11/2020	98.60	-	-	3713.12
				05/01/2020	98.83	-	-	3712.89
				06/05/2020	98.97	-	-	3712.75
				09/23/2020	99.83	-	-	3711.89
				12/09/2020	100.18	-	-	3711.54
				03/10/2021	100.22	-	-	3711.50
				06/11/2021	100.70	-	-	3711.02
				09/14/2021	101.25	-	-	3710.47
				12/13/2021	101.62	-	-	3710.10
				03/18/2022	101.60	-	-	3710.12
				06/20/2022	102.15	-	-	3709.57
				09/19/2022	103.03	-	-	3708.69
				12/19/2022	103.06	-	-	3708.66
				03/17/2023	103.17	-	-	3708.55
				06/16/2023	103.85	-	-	3707.87
				09/18/2023	104.40	-	-	3707.32
				12/18/2023	104.73	-	-	3706.99

Table 1 - Groundwater Gauging and NAPL Thickness - Historical

CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-17 2"	3810.57	71	92.7	03/21/2016	DR	-	-	-
				06/16/2016	PA	-	-	-
MW-17A 2"	3810.63	75	120	07/12/2016	93.40	-	-	3717.23
				09/13/2016	94.00	-	-	3716.63
				11/29/2016	94.32	-	-	3716.31
				03/13/2017	93.76	-	-	3716.87
				06/07/2017	93.33	-	-	3717.30
				09/18/2017	95.08	-	-	3715.55
				12/13/2017	95.01	-	-	3715.62
				03/23/2018	95.04	-	-	3715.59
				06/13/2018	95.71	-	-	3714.92
				09/25/2018	96.68	-	-	3713.95
				12/12/2018	96.66	-	-	3713.97
				03/21/2019	96.39	-	-	3714.24
				06/13/2019	96.77	-	-	3713.86
				09/18/2019	97.62	-	-	3713.01
				12/08/2019	97.31	-	-	3713.32
				03/11/2020	96.85	-	-	3713.78
				05/01/2020	97.41	-	-	3713.22
				06/05/2020	97.75	-	-	3712.88
				09/23/2020	98.60	-	-	3712.03
				12/09/2020	98.96	-	-	3711.67
				03/10/2021	99.01	-	-	3711.62
				06/11/2021	99.48	-	-	3711.15
				09/14/2021	100.02	-	-	3710.61
				12/13/2021	100.41	-	-	3710.22
				03/18/2022	100.40	-	-	3710.23
				06/20/2022	100.94	-	-	3709.69
				09/19/2022	101.78	-	-	3708.85
				12/19/2022	101.85	-	-	3708.78
				03/17/2023	101.99	-	-	3708.64
				06/16/2023	102.44	-	-	3708.19
				09/18/2023	103.15	-	-	3707.48
				12/18/2023	103.50	-	-	3707.13
MW-18A 2"	3809.46	84	114	03/21/2016	92.56	-	-	3716.90
				06/16/2016	93.08	-	-	3716.38
				09/13/2016	93.98	-	-	3715.48
				11/29/2016	93.58	-	-	3715.88
				03/13/2017	93.28	-	-	3716.18
				06/07/2017	94.08	-	-	3715.38
				09/18/2017	95.14	-	-	3714.32
				12/13/2017	94.70	-	-	3714.76
				03/23/2018	94.81	-	-	3714.65
				06/13/2018	95.54	-	-	3713.92
				09/25/2018	96.91	-	-	3712.55
				12/12/2018	96.25	-	-	3713.21
				03/21/2019	95.84	-	-	3713.62
				06/13/2019	96.61	-	-	3712.85
				09/18/2019	97.72	-	-	3711.74
				12/08/2019	96.86	-	-	3712.60
				03/11/2020	96.27	-	-	3713.19
				05/01/2020	97.17	-	-	3712.29
				06/05/2020	97.80	-	-	3711.66
				09/23/2020	98.85	-	-	3710.61
				12/09/2020	98.92	-	-	3710.54
				03/10/2021	98.75	-	-	3710.71
				06/11/2021	99.23	-	-	3710.23
				09/14/2021	100.14	-	-	3709.32
				12/13/2021	100.35	-	-	3709.11
				03/18/2022	100.22	-	-	3709.24
				06/20/2022	100.99	-	-	3708.47
				09/19/2022	102.05	-	-	3707.41
				12/19/2022	101.78	-	-	3707.68
				03/17/2023	101.76	-	-	3707.70
				06/16/2023	102.26	-	-	3707.20
				09/18/2023	103.46	-	-	3706.00
				12/18/2023	103.45	-	-	3706.01

Table 1 - Groundwater Gauging and NAPL Thickness - Historical

CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-19 4"	3811.05	75	120	06/16/2016	94.18	-	-	3716.87
				09/13/2016	99.15	94.23	4.92	3716.01
				11/29/2016	97.58	94.31	3.27	3716.20
				03/13/2017	99.20	94.05	5.15	3716.15
				06/07/2017	97.61	94.76	2.85	3715.82
				09/18/2017	101.00	95.11	5.89	3714.97
				12/13/2017	99.30	95.24	4.06	3715.14
				03/23/2018	98.08	95.49	2.59	3715.13
				06/13/2018	100.97	95.96	5.01	3714.26
				09/25/2018	100.01	97.31	2.70	3713.29
				12/12/2018	98.90	97.30	1.60	3713.49
				03/21/2019	100.81	96.43	4.38	3713.90
				06/13/2019	101.23	96.99	4.24	3713.36
				09/18/2019	102.49	97.92	4.57	3712.38
				12/08/2019	101.33	97.48	3.85	3712.93
				03/11/2020	100.75	97.05	3.70	3713.39
				05/01/2020	102.53	97.45	5.08	3712.76
				06/08/2020	101.70	98.05	3.65	3712.40
				09/23/2020	104.75	98.75	6.00	3711.31
				12/10/2020	103.50	99.32	4.18	3711.04
				03/10/2021	105.58	98.97	6.61	3710.99
				06/11/2021	105.47	99.29	6.18	3710.74
				09/15/2021	111.10	100.08	11.02	3709.15
				12/13/2021	107.02	100.36	6.66	3709.59
				03/18/2022	106.35	100.40	5.95	3709.67
				06/20/2022	107.50	100.90	6.60	3709.06
				09/19/2022	108.05	101.41	6.64	3708.54
				12/19/2022	107.50	101.98	5.52	3708.16
				03/17/2023	107.29	102.00	5.29	3708.18
				06/16/2023	OB	-	-	-
				09/18/2023	109.00	103.42	5.58	3706.71
				12/18/2023	OB	-	-	-
MW-20 2"	3810.00	75	114	07/12/2016	92.95	-	-	3717.05
				09/13/2016	93.57	-	-	3716.43
				11/29/2016	93.54	-	-	3716.46
				03/13/2017	93.27	-	-	3716.73
				06/07/2017	93.89	-	-	3716.11
				09/18/2017	94.68	-	-	3715.32
				12/13/2017	94.63	-	-	3715.37
				03/23/2018	94.58	-	-	3715.42
				06/13/2018	95.27	-	-	3714.73
				09/25/2018	96.02	-	-	3713.98
				12/12/2018	96.21	-	-	3713.79
				03/21/2019	95.87	-	-	3714.13
				06/13/2019	96.31	-	-	3713.69
				09/18/2019	97.19	-	-	3712.81
				12/08/2019	96.78	-	-	3713.22
				03/11/2020	96.31	-	-	3713.69
				05/01/2020	96.92	-	-	3713.08
				06/05/2020	97.30	-	-	3712.70
				09/23/2020	98.20	-	-	3711.80
				12/09/2020	98.51	-	-	3711.49
				03/10/2021	98.52	-	-	3711.48
				06/11/2021	99.03	-	-	3710.97
				09/14/2021	99.59	-	-	3710.41
				12/13/2021	100.00	-	-	3710.00

Table 1 - Groundwater Gauging and NAPL Thickness - Historical

CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-21 2"	3809.06	75	109	07/12/2016	92.65	-	-	3716.41
				09/13/2016	93.25	-	-	3715.81
				11/29/2016	93.00	-	-	3716.06
				03/13/2017	92.68	-	-	3716.38
				06/07/2017	93.45	-	-	3715.61
				09/18/2017	94.41	-	-	3714.65
				12/13/2017	94.06	-	-	3715.00
				03/23/2018	94.15	-	-	3714.91
				06/13/2018	94.87	-	-	3714.19
				09/25/2018	95.94	-	-	3713.12
				12/12/2018	95.60	-	-	3713.46
				03/21/2019	95.27	-	-	3713.79
				06/13/2019	95.91	-	-	3713.15
				09/18/2019	96.97	-	-	3712.09
				12/08/2019	96.23	-	-	3712.83
				03/11/2020	95.66	-	-	3713.40
				05/01/2020	96.50	-	-	3712.56
				06/05/2020	96.93	-	-	3712.13
				09/23/2020	98.05	-	-	3711.01
				12/09/2020	98.21	-	-	3710.85
				03/10/2021	98.18	-	-	3710.88
				06/11/2021	98.61	-	-	3710.45
				09/14/2021	99.36	-	-	3709.70
				12/13/2021	99.65	-	-	3709.41
				03/18/2022	99.57	-	-	3709.49
				06/20/2022	100.25	-	-	3708.81
				09/19/2022	101.24	-	-	3707.82
				12/19/2022	101.08	-	-	3707.98
				03/17/2023	101.11	-	-	3707.95
				06/16/2023	101.60	-	-	3707.46
				09/18/2023	102.68	-	-	3706.38
				12/18/2023	102.73	-	-	3706.33

Specific Gravity = 0.835

Notes:

DR = Well DR

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
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-6A	03/22/2016	0.0693	0.00910	0.000400 J	0.00500	-
	06/16/2016	0.00130	<0.000621	<0.000763	<0.000256	-
	09/13/2016	0.00140	<0.000621	<0.000763	<0.000256	-
	11/29/2016	0.0148	<0.00100	<0.000657	<0.000642	-
	03/14/2017	0.0241	0.00205	<0.000657	<0.000630	0.0262
	06/07/2017	0.652	0.0551	0.0304	0.0354	0.773
	09/19/2017	0.235 X	0.0231	0.00911	0.00926	0.276
	12/19/2017	0.0699	0.00436	0.00227	0.00517	0.0817
	03/27/2018	<0.000408	0.000750 J	<0.000657	<0.000630	0.000750 J
	06/13/2018	0.0329	0.00300	0.00110	0.000800 J	0.0378
	09/28/2018	0.0522	0.00423	<0.000657	0.00201	0.0584
	12/12/2018	0.163	0.0139	0.0090	0.0147	0.201
	03/22/2019	0.0748	0.0113	0.00389	0.00551	0.0955
	06/18/2019	0.00490	<0.000512	<0.000616	<0.00027	0.00490
	09/19/2019	0.00329	<0.002	<0.002	<0.002	0.00329
	12/10/2019	0.000620	<0.000367	<0.000657	<0.000630	0.000620
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	0.00169 J	<0.000367	<0.000657	<0.000630	0.00169 J
	09/24/2020	0.00367	<0.000367	<0.000657	<0.000630	0.00367
	12/10/2020	0.00364	0.000880 J	<0.002000	0.000940 J	0.005460
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	0.08408	<0.00200	<0.00200	0.000702 J	0.00285 J
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/22/2022	<0.000408	<0.000367	<0.000657	0.000781 J	0.000781 J
	06/21/2022	0.00178 J	0.000492 J	<0.000657	<0.000642	0.00227 J
	09/23/2022	0.00243	<0.000367	<0.000657	<0.000642	0.00243 J
	12/27/2022	0.000741 J	<0.000367	<0.000657	<0.000642	0.000741 J
	03/22/2023	<0.000408	0.000622 J	<0.000657	<0.000642	<0.000657
	06/21/2023	<0.00500	<0.00500	<0.00500	<0.00500	-
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000800
	12/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-8A	03/22/2016	0.0799	0.0304	0.00380	0.0138	-
	06/16/2016	0.00950	0.00210	<0.000763	0.00110	-
	09/13/2016	0.0171	0.00250	<0.000763	0.00140	-
	11/29/2016	0.0190	0.00464	<0.000657	<0.000642	-
	03/14/2017	0.0220	0.00785	0.00221	0.00462	0.0367
	06/07/2017	0.0281	0.00902	0.00165 J	0.00465	0.0434
	09/19/2017	0.0398	0.00721	0.000980 J	0.00324	0.0512
	12/19/2017	0.0162	0.00517	0.000690 J	0.00266	0.0247
	03/27/2018	0.00332	0.00187 J	<0.000657	0.000720 J	0.00591
	06/13/2018	0.00300	<0.000512	<0.000616	<0.000270	0.00300
	09/28/2018	0.0363	0.00535	<0.000657	0.00296	0.0446
	12/12/2018	0.0135	0.003	0.001 J	0.0022	0.0197
	03/23/2019	0.0303	0.00174	0.00229	0.00188	0.0362
	06/17/2019	0.0259	0.00410	<0.000616	0.00450	0.0345
	09/19/2019	0.0519	0.00919	<0.002	0.00491	0.0660
	12/10/2019	0.00226	0.000380	<0.000657	<0.000630	0.00264
	03/12/2020	0.00550	<0.000512	<0.000616	0.000900 J	0.00640
	06/08/2020	0.0252	0.00782	<0.000657	0.00550	0.0385
	09/23/2020	0.0495	0.0121	<0.000657	0.00754	0.0691
	12/10/2020	0.0378	0.00923	0.000890 J	0.00654	0.05446
	03/12/2021	0.0943	0.0341	0.00133 J	0.0603	0.190
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	0.488 *1	0.202	0.00982	0.198	0.975
	03/21/2022	0.0817	0.0235	0.00123 J	0.0683	0.175

Table 2 - Groundwater Analytical Data - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-9A	03/22/2016	0.147	0.000700 J	0.00590	0.00170	-
	06/16/2016	0.0400	<0.000621	0.00160	0.000300 J	-
	09/13/2016	0.0382	<0.00329	<0.00404	<0.00136	-
	11/29/2016	0.106	0.00332	0.00406	0.00244	-
	03/14/2017	0.381	<0.000367	0.0186	0.00401	0.404
	06/07/2017	0.394	0.00412	0.0123	0.00456	0.415
	09/19/2017	0.253	0.00110 J	0.00623	0.00164 J	0.262
	12/19/2017	0.0404	<0.000367	0.000800 J	0.00115 J	0.0424
	03/27/2018	0.0168	0.00117 J	<0.000657	<0.000630	0.0180
	06/13/2018	0.00710	<0.000512	<0.000616	<0.000270	0.00710
	09/28/2018	0.0160	<0.000367	<0.000657	<0.000630	0.0160
	12/12/2018	0.0607	<0.000512	0.0018	0.0005 J	0.0630
	03/23/2019	0.0205	<0.0005	<0.0005	<0.0005	0.0205
	06/18/2019	0.0322	<0.000512	0.00200	<0.00027	0.0342
	09/18/2019	0.276	<0.002	0.00849	<0.002	0.284
	12/10/2019	0.00517	0.000540	<0.000657	<0.000630	0.00571
	03/12/2020	0.00180	<0.000512	<0.000616	<0.000270	0.00180
	06/08/2020	0.000890 J	<0.000367	<0.000657	<0.000630	0.000890 J
	12/10/2020	0.00196 J	0.000610 J	<0.002000	<0.002000	0.002570
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	0.00747	0.00343	<0.00200	0.00430	0.0152
	03/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	0.000694 J	0.000461 J	<0.000657	<0.000642	0.00116 J
	09/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.000769 J	<0.000657	<0.000642	0.000769 J
	08/23/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000800
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/18/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-10A	03/22/2016	0.0227	0.00650	<0.000238	0.00540	-
	06/16/2016	0.00160	<0.000621	<0.000763	<0.000256	-
	09/13/2016	0.00200	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	0.0144	0.00338	<0.000657	0.00373	0.0215
	06/07/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.000850 J	<0.000367	<0.000657	<0.000630	0.000850 J
	06/13/2018	0.0129	<0.000512	<0.000616	<0.000270	0.0129
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	0.0018	<0.000512	<0.000616	<0.00027	0.0018
	03/22/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/17/2019	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	09/18/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/11/2019	0.000550	<0.000367	<0.000657	<0.000630	0.000550
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/24/2020	0.00140 J	<0.000367	0.000730 J	0.000970 J	0.00310
	12/10/2020	<0.002000	<0.002000	<0.002000	<0.002000	<0.0020000
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	0.0136	0.000542 J	<0.00200	<0.00400	0.0141
	09/15/2021	0.00146 J	0.000720 J	<0.00200	0.000819 J	0.00300 J
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/20/2023	<0.000408	0.000371 J	<0.000657 *1	<0.000642 *1	<0.000657
	06/20/2023	<0.00500	<0.00500	<0.00500	<0.00500	-
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
 CS Caylor
 Lea County, NM
 SRS#: 2002-10250

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-11A	03/22/2016	0.000400 J	0.000500 J	<0.000238	0.000800 J	-
	06/16/2016	0.00200	<0.000621	<0.000763	<0.000256	-
	09/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	0.0159	0.00110 J	<0.000657	<0.000642	0.0170
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	0.00432	<0.000367	<0.000657	<0.000630	0.00432
	03/27/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	03/23/2019	0.0156	0.000860	0.00315	0.00101	0.0206
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/11/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/24/2020	0.00400	<0.000367	<0.000657	<0.000630	0.00400
	12/10/2020	0.00154 J	0.00107 J	0.000950 J	0.000880 J	0.004440
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/21/2022	0.00134 J	<0.000367	<0.000657	0.000759 J	0.00210 J
	06/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2023	<0.00500	<0.00500	<0.00500	<0.00500	-
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-12A	03/22/2016	4.46	0.0159 J	0.195	0.233	-
	09/13/2016	5.70	<0.0329	0.208	0.179	-
	11/29/2016	12.8	<0.0500	0.539	0.327	-
	03/14/2017	11.8	<0.0367	0.539	<0.0630	12.3
	06/07/2017	26.4	<0.100	0.985	0.473	27.9
	09/19/2017	16.2 D	0.0427	0.597 D	0.253	17.1
	12/19/2017	5.34 D	0.0260	0.217	0.123	5.71
	03/27/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2018	6.35	<0.0512	0.260	<0.0270	6.61
	09/28/2018	19.7 D	0.159	0.65 D	0.289	20.8
	12/12/2018	12.2	0.045 J	0.475	0.39	13.1
	03/22/2019	23.5	0.106	1.22	1.09	25.9
	06/17/2019	19.2	0.115	0.815	0.715	20.8
	03/21/2022	1.67 B	5.63 B	0.0986	0.136	7.53
	08/24/2023	3.63	0.00575	0.324	0.531	4.49

Table 2 - Groundwater Analytical Data - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-13A	03/22/2016	0.000700 J	<0.000238	<0.000238	<0.000243	-
	06/16/2016	0.00210	<0.000621	<0.000763	<0.000256	-
	09/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/13/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	0.0064	0.0006 J	<0.000616	<0.00027	0.007
	03/22/2019	0.0294	0.0109	0.00234	0.00791	0.0506
	06/18/2019	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/11/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	0.00225	0.00216	<0.000657	<0.000630	0.00441
	09/24/2020	0.00395	<0.000367	<0.000657	<0.000630	0.00395
	12/10/2020	0.00117 J	0.000740 J	0.000830 J	0.00180 J	0.004540
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.000951 J	<0.000657	<0.000642	0.000951 J
	08/24/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-14A	03/22/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	06/16/2016	0.00370	<0.000621	<0.000763	<0.000256	-
	09/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	0.000860 J	0.00127 J	<0.000657	0.00197 J	0.00410
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00166 J	<0.000367	<0.000657	<0.000630	0.00166 J
	06/13/2018	0.00120	<0.000512	<0.000616	<0.000270	0.00120
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	03/23/2019	0.0169	0.000560	0.00438	0.00562	0.0275
	06/17/2019	0.0392	0.00340	0.00150	<0.00027	0.0441
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/10/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/24/2020	0.00247	<0.000367	<0.000657	<0.000630	0.00247
	12/10/2020	0.00140 J	0.000680 J	<0.002000	0.000720 J	0.002800
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.00112 J	<0.000657	<0.000642	0.00112 J
	08/23/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000790
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/18/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-15A	07/12/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/13/2016	0.00130	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	0.000770 J	<0.00100	<0.000657	<0.000642	0.000770 J
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00253	0.000770 J	<0.000657	<0.000630	0.00330
	06/13/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	0.264	0.0081	0.0177	0.0114	0.301
	03/23/2019	0.0223	0.000600	0.00613	0.00246	0.0315
	06/18/2019	0.00450	<0.000512	<0.000616	<0.00027	0.00450
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/10/2019	0.000930	0.000380	<0.000657	<0.000630	0.00131
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/24/2020	0.00670	<0.000367	<0.000657	<0.000630	0.00670
	12/10/2020	0.00238	0.000550 J	0.00168 J	0.00226	0.006870
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.000880 J	<0.000657	<0.000642	0.000880 J
	08/23/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
MW-16A	07/12/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	09/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	0.00319	<0.000367	<0.000657	<0.000630	0.00319
	06/07/2017	0.000840 J	<0.00100	<0.000657	<0.000642	0.000840 J
	09/19/2017	<0.000408	<0.00100	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00182 J	0.000740 J	<0.000657	<0.000630	0.00256
	06/13/2018	0.00100 J	<0.000512	<0.000616	<0.000270	0.00100 J
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	0.13	0.0041	0.0111	0.0068	0.152
	03/23/2019	0.0261	0.00236	0.00578	0.00312	0.0374
	06/17/2019	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/10/2019	0.00227	<0.000367	<0.000657	<0.000630	0.00227
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/08/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/23/2020	0.00817	0.000990 J	<0.000657	<0.000630	0.00916
	12/10/2020	0.000990 J	<0.002000	<0.002000	0.000810 J	0.001800 J
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/22/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/27/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.000657 J	<0.000657	<0.000642	0.000657 J
	08/23/2023	0.00210	<0.00100	0.0226	0.0208	0.0455
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/18/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-17A	07/12/2016	0.000800 J	<0.000621	<0.000763	<0.000256	-
	09/13/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	0.00224	<0.000367	<0.000657	<0.000630	0.00224
	06/07/2017	0.000440 J	<0.00100	<0.000657	<0.000642	0.000440 J
	09/19/2017	0.00117 J	<0.00100	<0.000657	<0.000630	0.00117 J
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00185 JXF	0.000600 J	<0.000657	<0.000630	0.00245
	06/13/2018	0.00180	<0.000512	<0.000616	<0.000270	0.00180
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	03/23/2019	0.0161	0.000540	0.00388	0.00157	0.0221
	06/17/2019	<0.00048	0.00170	<0.000616	<0.00027	0.00170
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/10/2019	0.000680	0.000530	<0.000657	<0.000630	0.00121
	03/12/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/08/2020	0.00751	0.00342	<0.000657	0.00308	0.0140
	09/23/2020	0.00892	0.00149 J	<0.000657	<0.000630	0.0104
	12/11/2020	0.00245	<0.002000	0.00110 J	0.000950 J	0.004500
	03/12/2021	0.00119 J	<0.00200	<0.00200	<0.00400	0.00119 J
	06/14/2021	0.000820 J	<0.00200	<0.00200	<0.00400	0.000820 J
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/21/2022	<0.000408	0.000426 J	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/27/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.00103 J	<0.000657	<0.000642	0.00103 J
	08/23/2023	0.00499	<0.00100	0.0599	0.0534	0.118
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/18/2023	<0.00100	<0.00100	<0.00100	<0.00100	0.000730
MW-18A	03/22/2016	0.00150	<0.000238	<0.000238	<0.000243	-
	06/16/2016	0.00190	<0.000621	<0.000763	<0.000256	-
	09/13/2016	0.00120	<0.000621	<0.000763	<0.000256	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	0.00142 J	<0.00100	<0.000657	<0.000642	0.00142 J
	09/19/2017	0.00114 J	<0.00100	<0.000657	<0.000630	0.00114 J
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00171 J	<0.000367	<0.000657	<0.000630	0.00171 J
	06/13/2018	0.0620	0.00100 J	0.00540	0.00130	0.0697
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	03/23/2019	0.0467	0.00206	0.00615	0.00266	0.0576
	06/17/2019	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/11/2019	0.00116	0.000370	<0.000657	<0.000630	0.00153
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	0.000760 J	0.000980 J	<0.000657	0.00118 J	0.00292
	09/24/2020	0.00297	<0.000367	<0.000657	<0.000630	0.00297
	12/10/2020	0.00103 J	0.00134 J	0.000750 J	0.00219	0.005310
	03/12/2021	<0.00200	<0.00200 N1	<0.00200 N1	<0.00400	<0.00200
	06/14/2021	<0.00200	0.000405 J	<0.00200	0.00125 J	0.00166 J
	09/15/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/20/2022	<0.000408	0.000598 J	<0.000657	<0.000642	<0.000657
	09/20/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/22/2023	<0.000408	0.000761 J	<0.000657	<0.000642	0.000761 J
	08/24/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	09/20/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/18/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Table 2 - Groundwater Analytical Data - Historical
CS Caylor
Lea County, NM
SRS#: 2002-10250

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater		0.010	0.750	0.750	0.620	-
MW-20	07/12/2016	0.0364	0.00851	0.000840 J	0.04491	-
	09/13/2016	0.382	0.0478	0.00590	0.00630	-
	11/29/2016	0.244	0.0262	0.00378	0.00620	-
	03/14/2017	0.306	0.0177	<0.000657	<0.000630	0.324
	06/07/2017	0.0449	0.00532	<0.000657	<0.000642	0.0502
	09/19/2017	1.89 D	0.221	0.0252	0.0223	2.16
	12/19/2017	0.275	0.00877	0.0163	0.00765	0.308
	03/27/2018	0.0896	0.00241	0.00594	0.00103 J	0.0990
	06/13/2018	0.496	<0.00256	0.00650	<0.00135	0.503
	09/28/2018	0.0455	<0.000367	0.00333	0.00277	0.0516
	12/12/2018	0.155	0.0032	0.0086	0.002	0.169
	03/23/2019	0.0614	<0.0005	0.00444	0.00106	0.0669
	06/18/2019	0.0968	0.00160	0.000900	<0.00027	0.0993
	09/19/2019	0.353	0.00435	0.0283	<0.002	0.386
	12/10/2019	0.102	0.000650	<0.000657	<0.000630	0.103
	03/12/2020	0.0153	<0.000512	<0.000616	<0.000270	0.0153
	06/08/2020	0.0382	0.00121 J	<0.000657	<0.000630	0.0394
	09/23/2020	0.0627	0.00198 J	0.00228	<0.000630	0.0670
	12/10/2020	0.0556	0.0139	0.00318	0.00428	0.07696
	03/12/2021	0.00277	<0.00200	<0.00200	<0.00400	0.00277
	09/15/2021	0.0506	<0.00200	<0.00200	<0.00400	0.0506
	12/14/2021	0.0991 F1	0.00104 J	<0.00200	0.000979 J	0.101
MW-21	07/12/2016	<0.340	<0.350	<0.260	<0.480	-
	09/13/2016	0.136	0.00890	0.0134	0.0168	-
	11/29/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/07/2017	0.00649	<0.00100	<0.000657	<0.000642	0.00649
	09/19/2017	0.00156 J	<0.00100	<0.000657	<0.000630	0.00156 J
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/27/2018	0.00138 J	<0.000367	<0.000657	<0.000630	0.00138 J
	06/13/2018	0.0233	<0.000512	0.00400	0.000800 J	0.0281
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/12/2018	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	03/22/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/17/2019	<0.00048	<0.000512	<0.000616	<0.00027	<0.00027
	09/19/2019	<0.002	<0.002	<0.002	<0.002	<0.002
	12/11/2019	0.000890	0.000500	<0.000657	<0.000630	0.00139
	03/13/2020	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	06/09/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/24/2020	0.00347	<0.000367	<0.000657	<0.000630	0.00347
	12/10/2020	0.00112 J	0.000710 J	<0.002000	<0.00200	0.001830 J
	03/12/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/14/2021	<0.00200	0.000371 J	0.000906 J	0.00211 J	0.00339 J
	09/15/2021	0.000860 J	<0.00200	<0.00200	<0.00400	0.000860 J
	12/14/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/21/2022	<0.000408	<0.000367	<0.000657	0.000721 J	0.000721 J
	06/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/21/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	03/21/2023	<0.000408	<0.000367	<0.000657 *1	<0.000642 *1	<0.000657
	06/20/2023	<0.00500	<0.00500	<0.00500	<0.00500	-
	09/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100
	12/19/2023	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100

Notes:

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

Analyte concentration exceeds the standard for:

NMWQCC - Groundwater Standard

Table 4 - Groundwater Analytical Data - Historical - MNA Supplement
CS Caylor
Lea County, New Mexico
SRS#: 2002-10250

Sample ID	Date Sampled	Methane (µg/L)	Ferrous Iron (mg/L)	Manganese (mg/L)	Phenolphthalein Alkalinity (mg/L)	Bicarbonate Alkalinity (mg/L)	Hydroxide Alkalinity (mg/L)	Carbonate Alkalinity (mg/L)	Alkalinity (mg/L)	Sulfate (mg/L)	Nitrate as N (mg/L)
MW-6A	12/14/2021	<5.00	<0.0500 HF	0.0122	<4.00	254	<4.00	<4.00	254	52.3	1.93
	03/22/2022	<0.453	<0.0280 HF	0.0174	<4.00	303	<4.00	<4.00	303	53.5	1.86
	06/21/2022	4.93 J	0.0400 J HF	0.0687 B	<4.00	337	<4.00	<4.00	337	47.7	1.60
	09/23/2022	0.635 J	0.0300 J HF	0.00654	<4.00	318	<4.00	<4.00	318	44.6	1.45
	12/27/2022	0.457 J	0.0800	0.0318	<4.00	354	<4.00	<4.00	354	50.0	1.77
	03/22/2023	<0.453	0.110 HF	0.0154	<4.00	339	<4.00	<4.00	339	54.7	1.45 H
	06/21/2023	<500	<0.200	0.00650	-	<10.0	<10.0	<10.0	350	52.1	1.98
	09/19/2023	0.875	3.58	0.0373	-	<10.0	<10.0	<10.0	340	42.2	1.36
MW-10A	12/20/2023	<5.00	<0.200	<0.00500	-	<10.0	<10.0	<10.0	150	55.8	1.71
	12/14/2021	0.796 J	<0.0500 HF	0.00665	<4.00	375	<4.00	<4.00	375	52.2	0.979
	03/22/2022	0.627 J	0.0700	0.0186	<4.00	398	<4.00	<4.00	398	57.9	1.27
	06/20/2022	1.07 J	0.0500	0.0180	<4.00	352	<4.00	<4.00	352	73.0	1.77
	09/20/2022	<0.453	1.48	0.0294	<4.00	263	<4.00	<4.00	263	81.9	2.18
	12/20/2022	0.658 J	1.87	0.111	<4.00	262	<4.00	<4.00	262	81.7	2.16
	03/20/2023	<0.453	0.0700 HF	0.00803	<4.00	227	<4.00	<4.00	227	84.0	2.53 H
	06/20/2023	0.679	0.369	0.0189	-	-	-	-	219	81.4	2.12
MW-11A	09/19/2023	0.956	1.15	0.0738	-	<10.0	<10.0	<10.0	130	67.1	1.96
	12/19/2023	<5.00	<0.200	0.0135	-	<10.0	<10.0	<10.0	1500	105	1.78
	12/14/2021	<5.00	<0.0500 HF	0.0168	<4.00	243	<4.00	<4.00	243	89.5	1.63
	06/20/2022	1.62 J	0.0400 J HF	0.0235 B	<4.00	298	<4.00	<4.00	298	83.2	1.33
	09/20/2022	<0.453	0.0600	0.00999	<4.00	273	<4.00	<4.00	273	85.7	1.17
	12/20/2022	<0.453	0.400	0.0579	<4.00	289	<4.00	<4.00	289	80.1	1.27 H
	03/22/2023	<0.453	0.750 HF	0.0459	<4.00	289	<4.00	<4.00	289	80.4	1.19 H
	09/19/2023	0.706	0.270	0.00930	-	<10.0	<10.0	<10.0	230	68.7	1.20
MW-20	12/19/2023	<5.00	<0.200	0.0103	-	<10.0	<10.0	<10.0	160	74.2	1.55
	07/12/2016	-	-	0.312	-	159	<20.0	<20.0	159	55.5	1.55
MW-21	07/12/2016	-	-	0.039	-	206	<20.0	<20.0	206	109	2.39
	03/22/2022	<0.453	0.0500	0.0839	<4.00	306	<4.00	<4.00	306	69.9	1.58 H
	06/20/2022	1.90 J	0.0300 J HF	0.0892 B	<4.00	283	<4.00	<4.00	283	71.0	1.27
	09/20/2022	<0.453	0.860	0.103	<4.00	277	<4.00	<4.00	277	68.7	1.52
	12/20/2022	<0.453	2.87	0.207	<4.00	298	<4.00	<4.00	298	65.8	1.38 H
	03/21/2023	<0.453	1.64 HF	0.211	<4.00	258	<4.00	<4.00	258	69.1	1.34
	06/20/2023	0.838	<0.200	0.301	-	-	-	-	295	58.6	0.641
	09/19/2023	0.704	<0.200	0.324	-	<10.0	<10.0	<10.0	260	51.8	0.678
MW-21	12/19/2023	<5.00	<0.200	0.519	-	<10.0	<10.0	<10.0	270	68.0	1.71

Notes:

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



APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/30/2023 1:13:32 PM

JOB DESCRIPTION

CS Caylor
SDG NUMBER Lea County

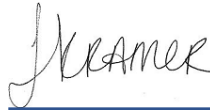
JOB NUMBER

890-4364-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

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

Authorization

Generated
3/30/2023 1:13:32 PM

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

Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 890-4364-1
SDG: Lea County

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	21

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

Qualifiers

GC/MS Semi VOA

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

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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.
α	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: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

Job ID: 890-4364-1

Laboratory: Eurofins Carlsbad

Narrative	Job Narrative 890-4364-1
-----------	-----------------------------

Receipt

The sample was received on 3/20/2023 11:44 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.6°C

GC/MS Semi VOA

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

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-49785 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

Client Sample ID: MW-10A

Lab Sample ID: 890-4364-1

Date Collected: 03/20/23 10:00

Matrix: Water

Date Received: 03/20/23 11:44

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000103	U	0.000187	0.000103	mg/L		03/21/23 19:43	03/24/23 01:51	1
Acenaphthylene	<0.0000867	U	0.000187	0.0000867	mg/L		03/21/23 19:43	03/24/23 01:51	1
Anthracene	<0.0000927	U	0.000187	0.0000927	mg/L		03/21/23 19:43	03/24/23 01:51	1
Benzo[a]anthracene	<0.000138	U	0.000187	0.000138	mg/L		03/21/23 19:43	03/24/23 01:51	1
Benzo[a]pyrene	<0.0000588	U	0.000187	0.0000588	mg/L		03/21/23 19:43	03/24/23 01:51	1
Benzo[b]fluoranthene	<0.0000721	U	0.000187	0.0000721	mg/L		03/21/23 19:43	03/24/23 01:51	1
Benzo[g,h,i]perylene	<0.000116	U	0.000187	0.000116	mg/L		03/21/23 19:43	03/24/23 01:51	1
Benzo[k]fluoranthene	<0.000119	U	0.000187	0.000119	mg/L		03/21/23 19:43	03/24/23 01:51	1
Chrysene	<0.000161	U	0.000187	0.000161	mg/L		03/21/23 19:43	03/24/23 01:51	1
Dibenz[a,h]anthracene	<0.0000783	U	0.000187	0.0000783	mg/L		03/21/23 19:43	03/24/23 01:51	1
Dibenzofuran	<0.000103	U	0.000187	0.000103	mg/L		03/21/23 19:43	03/24/23 01:51	1
Fluoranthene	<0.000162	U	0.000187	0.000162	mg/L		03/21/23 19:43	03/24/23 01:51	1
Fluorene	<0.000104	U	0.000187	0.000104	mg/L		03/21/23 19:43	03/24/23 01:51	1
Indeno[1,2,3-cd]pyrene	<0.0000940	U	0.000187	0.0000940	mg/L		03/21/23 19:43	03/24/23 01:51	1
Naphthalene	<0.000100	U	0.00375	0.000100	mg/L		03/21/23 19:43	03/24/23 01:51	1
Phenanthrene	<0.0000875	U	0.000187	0.0000875	mg/L		03/21/23 19:43	03/24/23 01:51	1
Pyrene	<0.000134	U	0.000187	0.000134	mg/L		03/21/23 19:43	03/24/23 01:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	116		54 - 146	03/21/23 19:43	03/24/23 01:51	1
Nitrobenzene-d5	111		46 - 151	03/21/23 19:43	03/24/23 01:51	1
p-Terphenyl-d14	108		51 - 139	03/21/23 19:43	03/24/23 01:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/30/23 04:03	1
Toluene	0.000371	J	0.00200	0.000367	mg/L			03/30/23 04:03	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			03/30/23 04:03	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			03/30/23 04:03	1
o-Xylene	<0.000642	U *+ *1	0.00200	0.000642	mg/L			03/30/23 04:03	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			03/30/23 04:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		03/30/23 04:03	1
1,4-Difluorobenzene (Surr)	89		70 - 130		03/30/23 04:03	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/30/23 13:19	1

Eurofins Carlsbad

Surrogate Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (54-146)	NBZ (46-151)	TPHd14 (51-139)
890-4364-1	MW-10A	116	111	108
LCS 860-95207/2-A	Lab Control Sample	105	121	106
LCSD 860-95207/3-A	Lab Control Sample Dup	100	115	102
MB 860-95207/1-A	Method Blank	92	106	107

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHd14 = p-Terphenyl-d14

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
890-4336-A-5 MS	Matrix Spike	114	107
890-4336-A-5 MSD	Matrix Spike Duplicate	117	109
890-4364-1	MW-10A	105	89
LCS 880-49785/34	Lab Control Sample	121	105
LCSD 880-49785/35	Lab Control Sample Dup	110	105
MB 880-49613/5-A	Method Blank	74	82
MB 880-49785/39	Method Blank	78	76

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 860-95207/1-A
Matrix: Water
Analysis Batch: 95438

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 95207

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000101	U	0.000183	0.000101	mg/L		03/21/23 19:43	03/23/23 11:15	1
Acenaphthylene	<0.0000847	U	0.000183	0.0000847	mg/L		03/21/23 19:43	03/23/23 11:15	1
Anthracene	<0.0000905	U	0.000183	0.0000905	mg/L		03/21/23 19:43	03/23/23 11:15	1
Benzo[a]anthracene	<0.000135	U	0.000183	0.000135	mg/L		03/21/23 19:43	03/23/23 11:15	1
Benzo[a]pyrene	<0.0000574	U	0.000183	0.0000574	mg/L		03/21/23 19:43	03/23/23 11:15	1
Benzo[b]fluoranthene	<0.0000704	U	0.000183	0.0000704	mg/L		03/21/23 19:43	03/23/23 11:15	1
Benzo[g,h,i]perylene	<0.000114	U	0.000183	0.000114	mg/L		03/21/23 19:43	03/23/23 11:15	1
Benzo[k]fluoranthene	<0.000117	U	0.000183	0.000117	mg/L		03/21/23 19:43	03/23/23 11:15	1
Chrysene	<0.000157	U	0.000183	0.000157	mg/L		03/21/23 19:43	03/23/23 11:15	1
Dibenz(a,h)anthracene	<0.0000764	U	0.000183	0.0000764	mg/L		03/21/23 19:43	03/23/23 11:15	1
Dibenzofuran	<0.000101	U	0.000183	0.000101	mg/L		03/21/23 19:43	03/23/23 11:15	1
Fluoranthene	<0.000158	U	0.000183	0.000158	mg/L		03/21/23 19:43	03/23/23 11:15	1
Fluorene	<0.000102	U	0.000183	0.000102	mg/L		03/21/23 19:43	03/23/23 11:15	1
Indeno[1,2,3-cd]pyrene	<0.0000918	U	0.000183	0.0000918	mg/L		03/21/23 19:43	03/23/23 11:15	1
Naphthalene	<0.0000977	U	0.00366	0.0000977	mg/L		03/21/23 19:43	03/23/23 11:15	1
Phenanthrene	<0.0000855	U	0.000183	0.0000855	mg/L		03/21/23 19:43	03/23/23 11:15	1
Pyrene	<0.000131	U	0.000183	0.000131	mg/L		03/21/23 19:43	03/23/23 11:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	92		54 - 146				03/21/23 19:43	03/23/23 11:15	1
Nitrobenzene-d5	106		46 - 151				03/21/23 19:43	03/23/23 11:15	1
p-Terphenyl-d14	107		51 - 139				03/21/23 19:43	03/23/23 11:15	1

Lab Sample ID: LCS 860-95207/2-A
Matrix: Water
Analysis Batch: 95438

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 95207

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0182	0.02127		mg/L		117	66 - 174
Acenaphthylene	0.0182	0.02119		mg/L		116	67 - 182
Anthracene	0.0182	0.02285		mg/L		125	55 - 191
Benzo[a]anthracene	0.0182	0.02007		mg/L		110	16 - 171
Benzo[a]pyrene	0.0182	0.01879		mg/L		103	10 - 165
Benzo[b]fluoranthene	0.0182	0.01872		mg/L		103	10 - 166
Benzo[g,h,i]perylene	0.0182	0.01818		mg/L		100	10 - 154
Benzo[k]fluoranthene	0.0182	0.01815		mg/L		99	10 - 178
Chrysene	0.0182	0.01952		mg/L		107	10 - 172
Dibenz(a,h)anthracene	0.0182	0.01863		mg/L		102	10 - 168
Dibenzofuran	0.0182	0.02076		mg/L		114	68 - 178
Fluoranthene	0.0182	0.02262		mg/L		124	52 - 185
Fluorene	0.0182	0.02194		mg/L		120	64 - 184
Indeno[1,2,3-cd]pyrene	0.0182	0.01900		mg/L		104	10 - 160
Naphthalene	0.0182	0.01988		mg/L		109	66 - 166
Phenanthrene	0.0182	0.02132		mg/L		117	66 - 184
Pyrene	0.0182	0.02261		mg/L		124	58 - 181
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
2-Fluorobiphenyl	105		54 - 146				

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 860-95207/2-A

Matrix: Water

Analysis Batch: 95438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95207

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	121		46 - 151
p-Terphenyl-d14	106		51 - 139

Lab Sample ID: LCSD 860-95207/3-A

Matrix: Water

Analysis Batch: 95438

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95207

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.0183	0.02028		mg/L		111	66 - 174	5	40
Acenaphthylene	0.0183	0.02055		mg/L		112	67 - 182	3	40
Anthracene	0.0183	0.02167		mg/L		118	55 - 191	5	40
Benzo[a]anthracene	0.0183	0.01927		mg/L		105	16 - 171	4	50
Benzo[a]pyrene	0.0183	0.01794		mg/L		98	10 - 165	5	50
Benzo[b]fluoranthene	0.0183	0.01783		mg/L		97	10 - 166	5	50
Benzo[g,h,i]perylene	0.0183	0.01729		mg/L		94	10 - 154	5	50
Benzo[k]fluoranthene	0.0183	0.01763		mg/L		96	10 - 178	3	50
Chrysene	0.0183	0.01885		mg/L		103	10 - 172	4	50
Dibenz(a,h)anthracene	0.0183	0.01773		mg/L		97	10 - 168	5	50
Dibenzofuran	0.0183	0.02024		mg/L		110	68 - 178	3	40
Fluoranthene	0.0183	0.02143		mg/L		117	52 - 185	5	40
Fluorene	0.0183	0.02123		mg/L		116	64 - 184	3	40
Indeno[1,2,3-cd]pyrene	0.0183	0.01801		mg/L		98	10 - 160	5	50
Naphthalene	0.0183	0.01898		mg/L		103	66 - 166	5	40
Phenanthrene	0.0183	0.02019		mg/L		110	66 - 184	5	40
Pyrene	0.0183	0.02122		mg/L		116	58 - 181	6	40

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	100		54 - 146
Nitrobenzene-d5	115		46 - 151
p-Terphenyl-d14	102		51 - 139

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49613/5-A

Matrix: Water

Analysis Batch: 49785

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/27/23 11:12	03/29/23 11:58	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/27/23 11:12	03/29/23 11:58	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/27/23 11:12	03/29/23 11:58	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/27/23 11:12	03/29/23 11:58	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/27/23 11:12	03/29/23 11:58	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/27/23 11:12	03/29/23 11:58	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	74		70 - 130	03/27/23 11:12	03/29/23 11:58	1			
1,4-Difluorobenzene (Surr)	82		70 - 130	03/27/23 11:12	03/29/23 11:58	1			

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49785/39

Matrix: Water

Analysis Batch: 49785

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/29/23 22:34	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/29/23 22:34	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/29/23 22:34	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/29/23 22:34	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/29/23 22:34	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/29/23 22:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130		03/29/23 22:34	1
1,4-Difluorobenzene (Surr)	76		70 - 130		03/29/23 22:34	1

Lab Sample ID: LCS 880-49785/34

Matrix: Water

Analysis Batch: 49785

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1060		mg/L		106	70 - 130
Toluene	0.100	0.1082		mg/L		108	70 - 130
Ethylbenzene	0.100	0.1154		mg/L		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2494		mg/L		125	70 - 130
o-Xylene	0.100	0.1327	*+	mg/L		133	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-49785/35

Matrix: Water

Analysis Batch: 49785

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08984		mg/L		90	70 - 130	16	20
Toluene	0.100	0.09257		mg/L		93	70 - 130	16	20
Ethylbenzene	0.100	0.09019	*1	mg/L		90	70 - 130	25	20
m-Xylene & p-Xylene	0.200	0.1909	*1	mg/L		95	70 - 130	27	20
o-Xylene	0.100	0.1000	*1	mg/L		100	70 - 130	28	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: 890-4336-A-5 MS

Matrix: Water

Analysis Batch: 49785

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000408	U	0.100	0.1039		mg/L		104	70 - 130
Toluene	<0.000367	U	0.100	0.1040		mg/L		104	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

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

Lab Sample ID: 890-4336-A-5 MS

Matrix: Water

Analysis Batch: 49785

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000657	U *1	0.100	0.1062		mg/L		106	70 - 130
m-Xylene & p-Xylene	<0.000629	U *1	0.200	0.2205		mg/L		110	70 - 130
o-Xylene	<0.000642	U *+ *1	0.100	0.1142		mg/L		114	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	114		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 890-4336-A-5 MSD

Matrix: Water

Analysis Batch: 49785

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U	0.100	0.1094		mg/L		109	70 - 130	5	25
Toluene	<0.000367	U	0.100	0.1116		mg/L		112	70 - 130	7	25
Ethylbenzene	<0.000657	U *1	0.100	0.1145		mg/L		114	70 - 130	7	25
m-Xylene & p-Xylene	<0.000629	U *1	0.200	0.2398		mg/L		120	70 - 130	8	25
o-Xylene	<0.000642	U *+ *1	0.100	0.1232		mg/L		123	70 - 130	8	25

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Eurofins Carlsbad

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

GC/MS Semi VOA

Prep Batch: 95207

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4364-1	MW-10A	Total/NA	Water	3511	
MB 860-95207/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-95207/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-95207/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 95438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-95207/1-A	Method Blank	Total/NA	Water	8270D SIM	95207
LCS 860-95207/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	95207
LCSD 860-95207/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	95207

Analysis Batch: 95551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4364-1	MW-10A	Total/NA	Water	8270D SIM	95207

GC VOA

Prep Batch: 49613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49613/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 49785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4364-1	MW-10A	Total/NA	Water	8021B	
MB 880-49613/5-A	Method Blank	Total/NA	Water	8021B	49613
MB 880-49785/39	Method Blank	Total/NA	Water	8021B	
LCS 880-49785/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-49785/35	Lab Control Sample Dup	Total/NA	Water	8021B	
890-4336-A-5 MS	Matrix Spike	Total/NA	Water	8021B	
890-4336-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 49953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4364-1	MW-10A	Total/NA	Water	Total BTEX	

Eurofins Carlsbad

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

Client Sample ID: MW-10A
Date Collected: 03/20/23 10:00
Date Received: 03/20/23 11:44

Lab Sample ID: 890-4364-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			53.4 mL	2 mL	95207	03/21/23 19:43	RC	EET HOU
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	95551	03/24/23 01:51	PXS	EET HOU
Total/NA	Analysis	8021B		1	5 mL	5 mL	49785	03/30/23 04:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49953	03/30/23 13:19	SM	EET MID

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8270D SIM	3511	Water	Dibenzofuran

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Method Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET HOU
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID

Protocol References:

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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

Sample Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4364-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4364-1	MW-10A	Water	03/20/23 10:00	03/20/23 11:44

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing

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

Chain of Custody

Work Order No.: _____

www.xenco.com Page _____ of _____

Project Manager:	David Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	Attn: Carnille Bryant
Address:	408 Texas St	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2002-10250
Phone:	575-441-4835	Email:	dackins@talonlpe.com, mgomez@talonlpe.com

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

ANALYSIS REQUEST										Preservative Codes		
Project Name:	CS Caylor	Turn Around		Pres. Code							None: NO	DI Water: H ₂ O
Project Number:		☒ Routine	☐ Rush								Cool: Cool	MeOH: Me
Project Location:	Lea, County	Due Date:									HCL: HC	HNO ₃ : HN
Sampler's Name:	M. Gant	TAT starts the day received by the lab, if received by 4:30pm									H ₂ SO ₄ : H ₂	NaOH: Na
PO #:	SRS# 2002-10250	Temp Blank:		☒ Yes	☐ No	Wet Ice:		☒ Yes	☐ No		H ₃ PO ₄ : HP	
SAMPLE RECEIPT		Samples Received Intact		☒ Yes	☐ No	Thermometer ID:		7110003			NaHSO ₄ : NABIS	
Cooler Custody Seals:		Yes	No	N/A		Correction Factor:		-0.0			Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes	No	N/A		Temperature Reading:		16.8			Zn Acetate+NaOH: Zn	
Total Containers:						Corrected Temperature:		16.6			NaOH+Ascorbic Acid: S.A.P.C	
Parameters												
021B												

[illegible]

Circle Method(s) and Metal(s) to be analyzed	200.8 / 6020:	200.7 / 6010
8RCRA	13PPM	Texas 11
Al	Sb	As
Ba	Be	B
Cd	Ca	Cr
Co	Cu	Fe
Pb	Mg	Mn
Mo	Ni	K
Se	Ag	SiO ₂
Na	Sr	Tl
Sn	U	V
Zn		
TCLP / SPLP 6010:	8RCRA	Sb
As	Ba	Be
Cd	Cr	Co
Cu	Pb	Mn
Mo	Ni	Se
Ag	Tl	U
Hg:	1631 / 245.1	77470 / 77471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Mattan bantz</i>	<i>Eric Bay</i>	8-20-23 1149			
2					
3					
4					
5					
6					

Revised Date: 08/24/2020 Raw 2020

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

[illegible]

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

[illegible]



1211 W Florida Ave
Midland TX 79701
Phone. 432-704-5440

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4364-1

SDG Number: Lea County

Login Number: 4364

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4364-1

SDG Number: Lea County

Login Number: 4364

List Number: 3

Creator: Coch, Stephanie

List Source: Eurofins Houston

List Creation: 03/21/23 01:10 PM

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

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4364-1

SDG Number: Lea County

Login Number: 4364

List Source: Eurofins Midland

List Number: 2

List Creation: 03/21/23 11:22 AM

Creator: Teel, Brianna

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	



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/27/2023 1:32:51 PM

JOB DESCRIPTION

CS Caylor
SDG NUMBER Lea County

JOB NUMBER

890-4365-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
3/27/2023 1:32:51 PM

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

Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 890-4365-1
SDG: Lea County

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	20

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

Qualifiers

GC VOA

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

HPLC/IC

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

Job ID: 890-4365-1

Laboratory: Eurofins Carlsbad

Narrative	Job Narrative 890-4365-1
-----------	-----------------------------

Receipt

The sample was received on 3/20/2023 11:44 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 16.6°C

GC VOA

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

HPLC/IC

Method 300_ORGFMS: Reanalysis of the following sample(s) was performed outside of the analytical holding time due to failure of quality control parameters in the initial analysis. MW-10A (890-4365-1)

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

Metals

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

General Chemistry

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

Client Sample ID: MW-10A
Date Collected: 03/20/23 10:00
Date Received: 03/20/23 11:44
Sample Depth: - N/A

Lab Sample ID: 890-4365-1
Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L	-		03/22/23 15:16	1
Surrogate									
Trifluoroethane	%Recovery 110	Qualifier	Limits 70 - 130				Prepared	Analyzed 03/22/23 15:16	Dil Fac 1
Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	2.53	H	0.100	0.0391	mg/L	-		03/23/23 01:36	1
Sulfate	84.0		0.500	0.109	mg/L	-		03/22/23 04:14	1
Method: SW846 6020A - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.00803		0.00200	0.000224	mg/L	-	03/24/23 08:00	03/24/23 15:49	1
General Chemistry									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	227		4.00	4.00	mg/L	-		03/23/23 14:10	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	227		4.00	4.00	mg/L	-		03/23/23 14:10	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L	-		03/23/23 14:10	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L	-		03/23/23 14:10	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L	-		03/23/23 14:10	1
Ferrous Iron (SM 3500 FE D)	0.0700	HF	0.0500	0.0280	mg/L	-		03/23/23 13:50	1

Surrogate Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)
Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
		fluoroethane						
Lab Sample ID	Client Sample ID	(70-130)						
890-4365-1	MW-10A	110						
LCS 860-95254/5	Lab Control Sample	107						
LCSD 860-95254/6	Lab Control Sample Dup	108						
MB 860-95254/4	Method Blank	110						
Surrogate Legend								
Trifluoroethane = Trifluoroethane								

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-95254/4

Matrix: Water

Analysis Batch: 95254

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			03/22/23 09:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluoroethane	110		70 - 130					03/22/23 09:22	1

Lab Sample ID: LCS 860-95254/5

Matrix: Water

Analysis Batch: 95254

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Methane	0.0199	0.01792		mg/L		90	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Trifluoroethane	107		70 - 130				

Lab Sample ID: LCSD 860-95254/6

Matrix: Water

Analysis Batch: 95254

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	0.0199	0.01813		mg/L		91	70 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Trifluoroethane	108		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-95222/14

Matrix: Water

Analysis Batch: 95222

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109	mg/L			03/21/23 21:43	1

Lab Sample ID: LCS 860-95222/15

Matrix: Water

Analysis Batch: 95222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	10.71		mg/L		107	90 - 110

Lab Sample ID: LCSD 860-95222/16

Matrix: Water

Analysis Batch: 95222

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10.0	10.71		mg/L		107	90 - 110	0	20

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-95222/18

Matrix: Water

Analysis Batch: 95222

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	0.500	0.4358	J	mg/L		87	50 - 150

Lab Sample ID: MB 860-95223/14

Matrix: Water

Analysis Batch: 95223

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	0.5901		0.100	0.0391	mg/L			03/21/23 21:43	1

Lab Sample ID: LCS 860-95223/15

Matrix: Water

Analysis Batch: 95223

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.986		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-95223/16

Matrix: Water

Analysis Batch: 95223

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	9.992		mg/L		100	80 - 120	0	20

Lab Sample ID: MB 860-95547/3

Matrix: Water

Analysis Batch: 95547

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109	mg/L			03/22/23 20:11	1

Lab Sample ID: LCS 860-95547/4

Matrix: Water

Analysis Batch: 95547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	10.0	9.109		mg/L		91	90 - 110

Lab Sample ID: LCSD 860-95547/5

Matrix: Water

Analysis Batch: 95547

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10.0	9.091		mg/L		91	90 - 110	0	20

Lab Sample ID: LLCS 860-95547/7

Matrix: Water

Analysis Batch: 95547

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	0.500	0.3902	J	mg/L		78	50 - 150

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-95548/3

Matrix: Water

Analysis Batch: 95548

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			03/22/23 20:11	1

Lab Sample ID: LCS 860-95548/4

Matrix: Water

Analysis Batch: 95548

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	10.20		mg/L		102	80 - 120

Lab Sample ID: LCSD 860-95548/5

Matrix: Water

Analysis Batch: 95548

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	10.19		mg/L		102	80 - 120	0	20

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-95656/1-A

Matrix: Water

Analysis Batch: 95799

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.000224	U	0.00200	0.000224	mg/L		03/24/23 08:00	03/24/23 15:16	1

Lab Sample ID: LCS 860-95656/2-A

Matrix: Water

Analysis Batch: 95799

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.09986		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-95656/3-A

Matrix: Water

Analysis Batch: 95799

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95656

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.100	0.1004		mg/L		100	80 - 120	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-95590/3

Matrix: Water

Analysis Batch: 95590

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			03/23/23 11:37	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/23/23 11:37	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/23/23 11:37	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			03/23/23 11:37	1

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-95590/3

Matrix: Water

Analysis Batch: 95590

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			03/23/23 11:37	1

Lab Sample ID: LCS 860-95590/4

Matrix: Water

Analysis Batch: 95590

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	245.5		mg/L		98	85 - 115

Lab Sample ID: LCSD 860-95590/5

Matrix: Water

Analysis Batch: 95590

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	241.8		mg/L		97	85 - 115	2	20

Lab Sample ID: 890-4365-1 DU

Matrix: Water

Analysis Batch: 95590

Client Sample ID: MW-10A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	227		201.6		mg/L		12	20
Bicarbonate Alkalinity as CaCO3	227		201.6		mg/L		12	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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

Lab Sample ID: MB 860-95549/3

Matrix: Water

Analysis Batch: 95549

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			03/23/23 13:50	1

Lab Sample ID: LCS 860-95549/4

Matrix: Water

Analysis Batch: 95549

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	1.00	0.9100		mg/L		91	75 - 125

Lab Sample ID: LCSD 860-95549/5

Matrix: Water

Analysis Batch: 95549

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	1.00	0.9100		mg/L		91	75 - 125	0	25

Eurofins Carlsbad

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

GC VOA

Analysis Batch: 95254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4365-1	MW-10A	Total/NA	Water	RSK-175	
MB 860-95254/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-95254/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-95254/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 95222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4365-1	MW-10A	Total/NA	Water	300.0	
MB 860-95222/14	Method Blank	Total/NA	Water	300.0	
LCS 860-95222/15	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95222/16	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-95222/18	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 95223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-95223/14	Method Blank	Total/NA	Water	300.0	
LCS 860-95223/15	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95223/16	Lab Control Sample Dup	Total/NA	Water	300.0	

Analysis Batch: 95547

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-95547/3	Method Blank	Total/NA	Water	300.0	
LCS 860-95547/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95547/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-95547/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 95548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4365-1	MW-10A	Total/NA	Water	300.0	
MB 860-95548/3	Method Blank	Total/NA	Water	300.0	
LCS 860-95548/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95548/5	Lab Control Sample Dup	Total/NA	Water	300.0	

Metals

Prep Batch: 95656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4365-1	MW-10A	Total/NA	Water	3010A	
MB 860-95656/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-95656/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-95656/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 95799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4365-1	MW-10A	Total/NA	Water	6020A	95656
MB 860-95656/1-A	Method Blank	Total/NA	Water	6020A	95656
LCS 860-95656/2-A	Lab Control Sample	Total/NA	Water	6020A	95656
LCSD 860-95656/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	95656

Eurofins Carlsbad

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

General Chemistry

Analysis Batch: 95549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4365-1	MW-10A	Total/NA	Water	SM 3500 FE D	
MB 860-95549/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-95549/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 860-95549/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 95590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4365-1	MW-10A	Total/NA	Water	SM 2320B	
MB 860-95590/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-95590/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-95590/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
890-4365-1 DU	MW-10A	Total/NA	Water	SM 2320B	

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

Client Sample ID: MW-10A
Date Collected: 03/20/23 10:00
Date Received: 03/20/23 11:44

Lab Sample ID: 890-4365-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	95254	03/22/23 15:16	CZT	EET HOU
Total/NA	Analysis	300.0		1			95222	03/22/23 04:14	A1S	EET HOU
Total/NA	Analysis	300.0		1			95548	03/23/23 01:36	RBNS	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	95656	03/24/23 08:00	MD	EET HOU
Total/NA	Analysis	6020A		1			95799	03/24/23 15:49	DP	EET HOU
Total/NA	Analysis	SM 2320B		1			95590	03/23/23 14:10	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	95549	03/23/23 13:50	SCI	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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

Sample Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4365-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4365-1	MW-10A	Water	03/20/23 10:00	03/20/23 11:44	- N/A

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	David Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	Attn: Camille Bryant
Address:	408 Texas St.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2002-10250
Phone:	575-441-4835	Email:	dadkins@talonlpe.com, mgomez@talonlpe.com

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

Project Name:		CS Caylor		Turn Around			
Project Number:				☒ Routine ☐ Rush			
Project Location:		Lea, County		Due Date:			
Sampler's Name:		M. Grant		TAT starts the day received by the lab. If received by 4:30pm			
PO #:		SRS# 2002-10250					
SAMPLE RECEIPT							
Samples Received Intact:		Temp Blank: ☒ Yes ☐ No		Thermometer ID: ☒ Yes ☐ No			
Cooler Custody Seals:		Yes ☐ No ☒ N/A		Correction Factor:		-0.2	
Sample Custody Seals:		Yes ☐ No ☒ N/A		Temperature Reading:		14-8	
Total Containers:				Corrected Temperature:		14-6	
Parameters							
Parameters							
ANALYSIS REQUEST							
Preservative Codes							
None: NO		DI Water: H ₂ O		Cool: Cool		MeOH: Me	
HCL: HC		HNO ₃ : HN		H ₂ SO ₄ : H ₂		NaOH: Na	
H ₃ PO ₄ : HP		NaHSO ₄ : NABIS		Na ₂ S ₂ O ₃ : NaSO ₃		Zn Acetate+NaOH: Zn	
NaOH+Ascorbic Acid: S APC							

[illegible]

Total	200.7 / 6010	200.8 / 6020:	
8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zr
TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U			Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>Mattias Bantz</i>	<i>Joe Alf</i>	3.20.23 1142			
2					
3					
4					
5					
6					

Revised Date: 08/25/2020 Rev: 2020

Eurofins Midland

1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4365-1

SDG Number: Lea County

Login Number: 4365

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4365-1

SDG Number: Lea County

Login Number: 4365

List Number: 2

Creator: Coch, Stephanie

List Source: Eurofins Houston

List Creation: 03/21/23 01:03 PM

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/30/2023 1:13:45 PM

JOB DESCRIPTION

CS Caylor

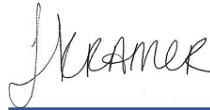
JOB NUMBER

890-4373-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad**Job Notes**

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

Authorization

Generated
3/30/2023 1:13:45 PM

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

Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 890-4373-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	18

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

Qualifiers

GC/MS Semi VOA

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

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

Job ID: 890-4373-1

Laboratory: Eurofins Carlsbad

Narrative	
	Job Narrative 890-4373-1

Receipt

The sample was received on 3/21/2023 11:37 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC/MS Semi VOA

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

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with analytical batch 880-49785 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

Client Sample ID: MW-21

Lab Sample ID: 890-4373-1

Date Collected: 03/21/23 09:50

Matrix: Water

Date Received: 03/21/23 11:37

Sample Depth: - N/A

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000100	U	0.000182	0.000100	mg/L		03/28/23 16:30	03/29/23 09:49	1
Acenaphthylene	<0.0000844	U	0.000182	0.0000844	mg/L		03/28/23 16:30	03/29/23 09:49	1
Anthracene	<0.0000902	U	0.000182	0.0000902	mg/L		03/28/23 16:30	03/29/23 09:49	1
Benzo[a]anthracene	<0.000134	U	0.000182	0.000134	mg/L		03/28/23 16:30	03/29/23 09:49	1
Benzo[a]pyrene	<0.0000572	U	0.000182	0.0000572	mg/L		03/28/23 16:30	03/29/23 09:49	1
Benzo[b]fluoranthene	<0.0000701	U	0.000182	0.0000701	mg/L		03/28/23 16:30	03/29/23 09:49	1
Benzo[g,h,i]perylene	<0.000113	U	0.000182	0.000113	mg/L		03/28/23 16:30	03/29/23 09:49	1
Benzo[k]fluoranthene	<0.000116	U	0.000182	0.000116	mg/L		03/28/23 16:30	03/29/23 09:49	1
Chrysene	<0.000156	U	0.000182	0.000156	mg/L		03/28/23 16:30	03/29/23 09:49	1
Dibenz[a,h]anthracene	<0.0000761	U	0.000182	0.0000761	mg/L		03/28/23 16:30	03/29/23 09:49	1
Dibenzofuran	<0.000100	U	0.000182	0.000100	mg/L		03/28/23 16:30	03/29/23 09:49	1
Fluoranthene	<0.000157	U	0.000182	0.000157	mg/L		03/28/23 16:30	03/29/23 09:49	1
Fluorene	<0.000101	U	0.000182	0.000101	mg/L		03/28/23 16:30	03/29/23 09:49	1
Indeno[1,2,3-cd]pyrene	<0.0000915	U	0.000182	0.0000915	mg/L		03/28/23 16:30	03/29/23 09:49	1
Naphthalene	<0.0000974	U	0.00365	0.0000974	mg/L		03/28/23 16:30	03/29/23 09:49	1
Phenanthrene	<0.0000852	U	0.000182	0.0000852	mg/L		03/28/23 16:30	03/29/23 09:49	1
Pyrene	<0.000130	U	0.000182	0.000130	mg/L		03/28/23 16:30	03/29/23 09:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	126		54 - 146				03/28/23 16:30	03/29/23 09:49	1
Nitrobenzene-d5	90		46 - 151				03/28/23 16:30	03/29/23 09:49	1
p-Terphenyl-d14	97		51 - 139				03/28/23 16:30	03/29/23 09:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/30/23 04:23	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/30/23 04:23	1
Ethylbenzene	<0.000657	U *1	0.00200	0.000657	mg/L			03/30/23 04:23	1
m-Xylene & p-Xylene	<0.000629	U *1	0.00400	0.000629	mg/L			03/30/23 04:23	1
o-Xylene	<0.000642	U *+ *1	0.00200	0.000642	mg/L			03/30/23 04:23	1
Xylenes, Total	<0.000642	U *1	0.00400	0.000642	mg/L			03/30/23 04:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130					03/30/23 04:23	1
1,4-Difluorobenzene (Surr)	82		70 - 130					03/30/23 04:23	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/30/23 13:19	1

Eurofins Carlsbad

Surrogate Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP	NBZ	TPHd14
		(54-146)	(46-151)	(51-139)
890-4373-1	MW-21	126	90	97
LCS 860-96050/2-A	Lab Control Sample	129	126	112
LCSD 860-96050/3-A	Lab Control Sample Dup	132	129	130
MB 860-96050/1-A	Method Blank	126	111	113
Surrogate Legend				
FBP = 2-Fluorobiphenyl				
NBZ = Nitrobenzene-d5				
TPHd14 = p-Terphenyl-d14				

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
890-4373-1	MW-21	103	82
LCS 880-49785/34	Lab Control Sample	121	105
LCSD 880-49785/35	Lab Control Sample Dup	110	105
MB 880-49613/5-A	Method Blank	74	82
MB 880-49785/39	Method Blank	78	76
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 860-96050/1-A							Client Sample ID: Method Blank		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 96205							Prep Batch: 96050		
Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000100	U	0.000182	0.000100	mg/L		03/27/23 16:55	03/28/23 16:45	1
Acenaphthylene	<0.0000842	U	0.000182	0.0000842	mg/L		03/27/23 16:55	03/28/23 16:45	1
Anthracene	<0.0000900	U	0.000182	0.0000900	mg/L		03/27/23 16:55	03/28/23 16:45	1
Benzo[a]anthracene	<0.000134	U	0.000182	0.000134	mg/L		03/27/23 16:55	03/28/23 16:45	1
Benzo[a]pyrene	<0.0000571	U	0.000182	0.0000571	mg/L		03/27/23 16:55	03/28/23 16:45	1
Benzo[b]fluoranthene	<0.0000700	U	0.000182	0.0000700	mg/L		03/27/23 16:55	03/28/23 16:45	1
Benzo[g,h,i]perylene	<0.000113	U	0.000182	0.000113	mg/L		03/27/23 16:55	03/28/23 16:45	1
Benzo[k]fluoranthene	<0.000116	U	0.000182	0.000116	mg/L		03/27/23 16:55	03/28/23 16:45	1
Chrysene	<0.000156	U	0.000182	0.000156	mg/L		03/27/23 16:55	03/28/23 16:45	1
Dibenz(a,h)anthracene	<0.0000760	U	0.000182	0.0000760	mg/L		03/27/23 16:55	03/28/23 16:45	1
Dibenzofuran	<0.000100	U	0.000182	0.000100	mg/L		03/27/23 16:55	03/28/23 16:45	1
Fluoranthene	<0.000157	U	0.000182	0.000157	mg/L		03/27/23 16:55	03/28/23 16:45	1
Fluorene	<0.000101	U	0.000182	0.000101	mg/L		03/27/23 16:55	03/28/23 16:45	1
Indeno[1,2,3-cd]pyrene	<0.0000913	U	0.000182	0.0000913	mg/L		03/27/23 16:55	03/28/23 16:45	1
Naphthalene	<0.0000972	U	0.00364	0.0000972	mg/L		03/27/23 16:55	03/28/23 16:45	1
Phenanthrene	<0.0000850	U	0.000182	0.0000850	mg/L		03/27/23 16:55	03/28/23 16:45	1
Pyrene	<0.000130	U	0.000182	0.000130	mg/L		03/27/23 16:55	03/28/23 16:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	126		54 - 146				03/27/23 16:55	03/28/23 16:45	1
Nitrobenzene-d5	111		46 - 151				03/27/23 16:55	03/28/23 16:45	1
p-Terphenyl-d14	113		51 - 139				03/27/23 16:55	03/28/23 16:45	1

Lab Sample ID: LCS 860-96050/2-A							Client Sample ID: Lab Control Sample		
Matrix: Water							Prep Type: Total/NA		
Analysis Batch: 96205							Prep Batch: 96050		
Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Acenaphthene	0.0182	0.02234		mg/L		123	66 - 174		
Acenaphthylene	0.0182	0.02259		mg/L		124	67 - 182		
Anthracene	0.0182	0.02127		mg/L		117	55 - 191		
Benzo[a]anthracene	0.0182	0.01988		mg/L		109	16 - 171		
Benzo[a]pyrene	0.0182	0.01941		mg/L		107	10 - 165		
Benzo[b]fluoranthene	0.0182	0.01875		mg/L		103	10 - 166		
Benzo[g,h,i]perylene	0.0182	0.01488		mg/L		82	10 - 154		
Benzo[k]fluoranthene	0.0182	0.02072		mg/L		114	10 - 178		
Chrysene	0.0182	0.02077		mg/L		114	10 - 172		
Dibenz(a,h)anthracene	0.0182	0.01436		mg/L		79	10 - 168		
Dibenzofuran	0.0182	0.02217		mg/L		122	68 - 178		
Fluoranthene	0.0182	0.02102		mg/L		115	52 - 185		
Fluorene	0.0182	0.02137		mg/L		117	64 - 184		
Indeno[1,2,3-cd]pyrene	0.0182	0.01408		mg/L		77	10 - 160		
Naphthalene	0.0182	0.02055		mg/L		113	66 - 166		
Phenanthrene	0.0182	0.02169		mg/L		119	66 - 184		
Pyrene	0.0182	0.01959		mg/L		108	58 - 181		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
2-Fluorobiphenyl	129		54 - 146						

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 860-96050/2-A

Matrix: Water

Analysis Batch: 96205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96050

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	126		46 - 151
p-Terphenyl-d14	112		51 - 139

Lab Sample ID: LCSD 860-96050/3-A

Matrix: Water

Analysis Batch: 96205

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96050

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.0181	0.02323		mg/L		128	66 - 174	4	40
Acenaphthylene	0.0181	0.02321		mg/L		128	67 - 182	3	40
Anthracene	0.0181	0.02214		mg/L		122	55 - 191	4	40
Benzo[a]anthracene	0.0181	0.01796		mg/L		99	16 - 171	10	50
Benzo[a]pyrene	0.0181	0.01697		mg/L		93	10 - 165	13	50
Benzo[b]fluoranthene	0.0181	0.01594		mg/L		88	10 - 166	16	50
Benzo[g,h,i]perylene	0.0181	0.01603		mg/L		88	10 - 154	7	50
Benzo[k]fluoranthene	0.0181	0.01855		mg/L		102	10 - 178	11	50
Chrysene	0.0181	0.01897		mg/L		105	10 - 172	9	50
Dibenz(a,h)anthracene	0.0181	0.01598		mg/L		88	10 - 168	11	50
Dibenzofuran	0.0181	0.02294		mg/L		126	68 - 178	3	40
Fluoranthene	0.0181	0.02127		mg/L		117	52 - 185	1	40
Fluorene	0.0181	0.02214		mg/L		122	64 - 184	4	40
Indeno[1,2,3-cd]pyrene	0.0181	0.01551		mg/L		85	10 - 160	10	50
Naphthalene	0.0181	0.02242		mg/L		124	66 - 166	9	40
Phenanthrene	0.0181	0.02259		mg/L		124	66 - 184	4	40
Pyrene	0.0181	0.02577		mg/L		142	58 - 181	27	40

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	132		54 - 146
Nitrobenzene-d5	129		46 - 151
p-Terphenyl-d14	130		51 - 139

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49613/5-A

Matrix: Water

Analysis Batch: 49785

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49613

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/27/23 11:12	03/29/23 11:58	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/27/23 11:12	03/29/23 11:58	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/27/23 11:12	03/29/23 11:58	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/27/23 11:12	03/29/23 11:58	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/27/23 11:12	03/29/23 11:58	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/27/23 11:12	03/29/23 11:58	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	74		70 - 130	03/27/23 11:12	03/29/23 11:58	1			
1,4-Difluorobenzene (Surr)	82		70 - 130	03/27/23 11:12	03/29/23 11:58	1			

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49785/39

Matrix: Water

Analysis Batch: 49785

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/29/23 22:34	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/29/23 22:34	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/29/23 22:34	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/29/23 22:34	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/29/23 22:34	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/29/23 22:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130		03/29/23 22:34	1
1,4-Difluorobenzene (Surr)	76		70 - 130		03/29/23 22:34	1

Lab Sample ID: LCS 880-49785/34

Matrix: Water

Analysis Batch: 49785

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1060		mg/L		106	70 - 130
Toluene	0.100	0.1082		mg/L		108	70 - 130
Ethylbenzene	0.100	0.1154		mg/L		115	70 - 130
m-Xylene & p-Xylene	0.200	0.2494		mg/L		125	70 - 130
o-Xylene	0.100	0.1327	*+	mg/L		133	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-49785/35

Matrix: Water

Analysis Batch: 49785

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08984		mg/L		90	70 - 130	16	20
Toluene	0.100	0.09257		mg/L		93	70 - 130	16	20
Ethylbenzene	0.100	0.09019	*1	mg/L		90	70 - 130	25	20
m-Xylene & p-Xylene	0.200	0.1909	*1	mg/L		95	70 - 130	27	20
o-Xylene	0.100	0.1000	*1	mg/L		100	70 - 130	28	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Eurofins Carlsbad

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

GC/MS Semi VOA

Prep Batch: 96050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4373-1	MW-21	Total/NA	Water	3511	
MB 860-96050/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-96050/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-96050/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 96205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-96050/1-A	Method Blank	Total/NA	Water	8270D SIM	96050
LCS 860-96050/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	96050
LCSD 860-96050/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	96050

Analysis Batch: 96284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4373-1	MW-21	Total/NA	Water	8270D SIM	96050

GC VOA

Prep Batch: 49613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49613/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 49785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4373-1	MW-21	Total/NA	Water	8021B	
MB 880-49613/5-A	Method Blank	Total/NA	Water	8021B	49613
MB 880-49785/39	Method Blank	Total/NA	Water	8021B	
LCS 880-49785/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-49785/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 49954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4373-1	MW-21	Total/NA	Water	Total BTEX	

Eurofins Carlsbad

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

Client Sample ID: MW-21

Date Collected: 03/21/23 09:50

Date Received: 03/21/23 11:37

Lab Sample ID: 890-4373-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			54.9 mL	2 mL	96050	03/28/23 16:30	RC	EET HOU
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	96284	03/29/23 09:49	IS	EET HOU
Total/NA	Analysis	8021B		1	5 mL	5 mL	49785	03/30/23 04:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49954	03/30/23 13:19	SM	EET MID

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
8270D SIM	3511	Water	Dibenzofuran

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Method Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET HOU
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID

Protocol References:

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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

Sample Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4373-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4373-1	MW-21	Water	03/21/23 09:50	03/21/23 11:37	- N/A

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing Xenco

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

Chain of Custody

Work Order No: _____

www.xenco.com Page 7 of 11

Project Manager:	David Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	Attn: Camille Bryant
Address:	408 Texas St	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2002-10250
Phone:	575-441-4835	Email:	dackins@talonlpe.com, mgomez@talonlpe.com

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other: _____	

Project Name:		CS Caylor		Turn Around		Pres. Code		ANALYSIS REQUEST										Preservative Codes					
Project Number:				☒ Routine ☐ Rush														None: NO					
Project location:		Lea, County		Due Date:														Cool: Cool					
Sampler's Name:		M. Sanchez, N. Ross		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC					
PO #:		SRSP 2002-10250																H ₂ SO ₄ : H ₂					
SAMPLE RECEIPT		Temp Blank:		☒ Yes ☐ No		Wet Ice:		☒ Yes ☐ No												H ₃ PO ₄ : HP			
Samples Received intact:		☒ Yes ☐ No		Thermometer ID:		TW10003														NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes		No		N/A		Correction Factor:		-5.0												Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		Yes		No		N/A		Temperature Reading:		5.8												Zn Acetate+NaOH: Zn	
Total Containers:								Corrected Temperature:		5.0												NaOH+Ascorbic Acid: SACP	

[illegible]

Total	200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO ₂	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed			TC1P / SPLP 6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U					Hg: 1631 / 245.1	17470	17471					

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 \$95.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

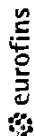
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		3-21-23 1137	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020

Eurofins Carlsbad

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

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4373-1

Login Number: 4373
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4373-1

Login Number: 4373

List Number: 3

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 03/22/23 03:45 PM

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

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4373-1

Login Number: 4373

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 03/22/23 11:08 AM

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/28/2023 6:43:00 PM

JOB DESCRIPTION

CS Caylor

JOB NUMBER

890-4374-1

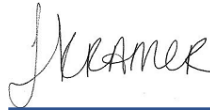
Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization



Generated
3/28/2023 6:43:00 PM

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

Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 890-4374-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Definitions/Glossary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

Qualifiers

GC VOA

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

HPLC/IC

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

Job ID: 890-4374-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4374-1

Receipt

The sample was received on 3/21/2023 11:37 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

Client Sample ID: MW-21

Lab Sample ID: 890-4374-1

Date Collected: 03/21/23 09:50

Matrix: Water

Date Received: 03/21/23 11:37

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			03/27/23 14:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluoroethane	98		70 - 130					03/27/23 14:19	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.34		0.100	0.0391	mg/L			03/22/23 22:15	1
Sulfate	69.1		0.500	0.109	mg/L			03/22/23 22:15	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.211		0.00200	0.000224	mg/L		03/23/23 09:30	03/23/23 15:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	258		4.00	4.00	mg/L			03/23/23 15:27	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	258		4.00	4.00	mg/L			03/23/23 15:27	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/23/23 15:27	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/23/23 15:27	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/23/23 15:27	1
Ferrous Iron (SM 3500 FE D)	1.64	HF	0.0500	0.0280	mg/L			03/23/23 13:50	1

Eurofins Carlsbad

Surrogate Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

Method: RSK-175 - Dissolved Gases (GC)
Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		fluoroethane							
Lab Sample ID	Client Sample ID	(70-130)							
890-4374-1	MW-21	98							
LCS 860-95986/5	Lab Control Sample	106							
LCSD 860-95986/6	Lab Control Sample Dup	106							
MB 860-95986/4	Method Blank	105							
Surrogate Legend									
Trifluoroethane = Trifluoroethane									

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-95986/4

Matrix: Water

Analysis Batch: 95986

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.000453	U	0.00500	0.000453	mg/L			03/27/23 12:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluoroethane	105		70 - 130					03/27/23 12:56	1

Lab Sample ID: LCS 860-95986/5

Matrix: Water

Analysis Batch: 95986

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Methane		0.0199	0.01816		mg/L		91	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
Trifluoroethane	106		70 - 130						

Lab Sample ID: LCSD 860-95986/6

Matrix: Water

Analysis Batch: 95986

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane		0.0199	0.01803		mg/L		91	70 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
Trifluoroethane	106		70 - 130							

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-95376/3

Matrix: Water

Analysis Batch: 95376

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109	mg/L			03/22/23 18:33	1

Lab Sample ID: LCS 860-95376/4

Matrix: Water

Analysis Batch: 95376

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Sulfate		10.0	9.563		mg/L		96	90 - 110	

Lab Sample ID: LCSD 860-95376/5

Matrix: Water

Analysis Batch: 95376

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate		10.0	9.687		mg/L		97	90 - 110	1	20

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-95376/7

Matrix: Water

Analysis Batch: 95376

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	0.500	0.4766	J	mg/L		95	50 - 150

Lab Sample ID: MB 860-95377/3

Matrix: Water

Analysis Batch: 95377

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			03/22/23 18:33	1

Lab Sample ID: LCS 860-95377/4

Matrix: Water

Analysis Batch: 95377

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.946		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-95377/5

Matrix: Water

Analysis Batch: 95377

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	10.07		mg/L		101	80 - 120	1	20

Lab Sample ID: LLCS 860-95377/6

Matrix: Water

Analysis Batch: 95377

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1300		mg/L		130	50 - 150

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-95467/1-A

Matrix: Water

Analysis Batch: 95604

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95467

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.000224	U	0.00200	0.000224	mg/L		03/23/23 09:30	03/23/23 15:04	1

Lab Sample ID: LCS 860-95467/2-A

Matrix: Water

Analysis Batch: 95604

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95467

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.09949		mg/L		99	80 - 120

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

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

Lab Sample ID: LCSD 860-95467/3-A
Matrix: Water
Analysis Batch: 95604

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 95467

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.100	0.1000		mg/L		100	80 - 120	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-95590/3
Matrix: Water
Analysis Batch: 95590

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			03/23/23 11:37	1
Bicarbonate Alkalinity as CaCO ₃	<4.00	U	4.00	4.00	mg/L			03/23/23 11:37	1
Carbonate Alkalinity as CaCO ₃	<4.00	U	4.00	4.00	mg/L			03/23/23 11:37	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			03/23/23 11:37	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			03/23/23 11:37	1

Lab Sample ID: LCS 860-95590/4
Matrix: Water
Analysis Batch: 95590

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	245.5		mg/L		98	85 - 115

Lab Sample ID: LCSD 860-95590/5
Matrix: Water
Analysis Batch: 95590

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	241.8		mg/L		97	85 - 115	2	20

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

Lab Sample ID: MB 860-95549/3
Matrix: Water
Analysis Batch: 95549

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			03/23/23 13:50	1

Lab Sample ID: LCS 860-95549/4
Matrix: Water
Analysis Batch: 95549

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	1.00	0.9100		mg/L		91	75 - 125

Eurofins Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

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

Lab Sample ID: LCSD 860-95549/5				Client Sample ID: Lab Control Sample Dup							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 95549											
Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron			1.00	0.9100		mg/L		91	75 - 125	0	25

Lab Sample ID: 890-4374-1 DU				Client Sample ID: MW-21							
Matrix: Water				Prep Type: Total/NA							
Analysis Batch: 95549											
Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	1.64	HF		1.650		mg/L				0.6	25

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

GC VOA

Analysis Batch: 95986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4374-1	MW-21	Total/NA	Water	RSK-175	
MB 860-95986/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-95986/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-95986/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 95376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4374-1	MW-21	Total/NA	Water	300.0	
MB 860-95376/3	Method Blank	Total/NA	Water	300.0	
LCS 860-95376/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95376/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-95376/7	Lab Control Sample	Total/NA	Water	300.0	

Analysis Batch: 95377

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4374-1	MW-21	Total/NA	Water	300.0	
MB 860-95377/3	Method Blank	Total/NA	Water	300.0	
LCS 860-95377/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95377/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-95377/6	Lab Control Sample	Total/NA	Water	300.0	

Metals

Prep Batch: 95467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4374-1	MW-21	Total/NA	Water	3010A	
MB 860-95467/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-95467/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-95467/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	

Analysis Batch: 95604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4374-1	MW-21	Total/NA	Water	6020A	95467
MB 860-95467/1-A	Method Blank	Total/NA	Water	6020A	95467
LCS 860-95467/2-A	Lab Control Sample	Total/NA	Water	6020A	95467
LCSD 860-95467/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	95467

General Chemistry

Analysis Batch: 95549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4374-1	MW-21	Total/NA	Water	SM 3500 FE D	
MB 860-95549/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-95549/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 860-95549/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	
890-4374-1 DU	MW-21	Total/NA	Water	SM 3500 FE D	

Analysis Batch: 95590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4374-1	MW-21	Total/NA	Water	SM 2320B	

Eurofins Carlsbad

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

General Chemistry (Continued)

Analysis Batch: 95590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-95590/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-95590/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-95590/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

Client Sample ID: MW-21
Date Collected: 03/21/23 09:50
Date Received: 03/21/23 11:37

Lab Sample ID: 890-4374-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	95986	03/27/23 14:19	CZT	EET HOU
Total/NA	Analysis	300.0		1			95376	03/22/23 22:15	A1S	EET HOU
Total/NA	Analysis	300.0		1			95377	03/22/23 22:15	A1S	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	95467	03/23/23 09:30	MD	EET HOU
Total/NA	Analysis	6020A		1			95604	03/23/23 15:35	DP	EET HOU
Total/NA	Analysis	SM 2320B		1			95590	03/23/23 15:27	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	95549	03/23/23 13:50	SCI	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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

Sample Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-4374-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-4374-1	MW-21	Water	03/21/23 09:50	03/21/23 11:37

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 505-3334
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Chain of Custody

Work Order No.:

www.xenco.com Page 1 of 1

Project Manager:	David Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	Attn: Camille Bryant
Address:	408 Texas St.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2002-10250
Phone:	575-441-4835	Email:	dadkins@talonlpe.com, mgomez@talonlpe.com

Work Order Comments	
Program: UST/ST	PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:	
Reporting: Level II	☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD	☐ ADAPT ☐ Other: _____

Project Name:		CS Caylor		Turn Around		Pres. Code		ANALYSIS REQUEST										Preservative Codes			
Project Number:				☒ Routine ☐ Rush														None: NO			
Project Location:		Lea, County		Due Date:														Cool: Cool			
Sampler's Name:		M. Garnez, M. Perez		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC			
PO #:		SRS# 2002-10250																H ₂ SO ₄ : H ₂			
SAMPLE RECEIPT		Temp Blank:		☒ Yes ☐ No		Well Ice:		☒ Yes ☐ No												H ₃ PO ₄ : HP	
Samples Received Intact:		☒ Yes ☐ No		Thermometer ID:		Thm: 700603														NaHSO ₄ : NABIS	
Cooler Custody Seals:		☒ Yes ☐ No		Correction Factor:		-0.2														Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals:		☒ Yes ☐ No		Temperature Reading:		15.8														Zn Acetate+NaOH: Zn	
Total Containers:				Corrected Temperature:		5.16														NaOH+Ascorbic Acid: SAPC	

[illegible]

Total	200.7 / 6010	200.8 / 6020:
8RCRA	13PPM	Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed		
	TCLP/SPLP 6010:	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno 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 Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 		3.21.23 1137	2		
3			4		
5			6		

Printed Date: 04/25/2020 Rev: 2020

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4374-1

Login Number: 4374

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-4374-1

Login Number: 4374

List Number: 2

Creator: Pena, Jesiel

List Source: Eurofins Houston

List Creation: 03/22/23 03:12 PM

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/29/2023 3:58:19 PM

JOB DESCRIPTION

CS Caylor

JOB NUMBER

880-26256-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

Authorization



Generated
3/29/2023 3:58:19 PM

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

Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 880-26256-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	14
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	23

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

Qualifiers

GC VOA

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

HPLC/IC

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

Metals

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

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: CS Caylor

Job ID: 880-26256-1

Job ID: 880-26256-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-26256-1
-----------	------------------------------

Receipt

The samples were received on 3/22/2023 3:58 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

GC VOA

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

HPLC/IC

Method 300_ORGFMS: The following samples were received outside of holding time: MW-11A (880-26256-1) and MW-6 (880-26256-2).

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

Metals

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

General Chemistry

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

Client Sample ID: MW-11A

Lab Sample ID: 880-26256-1

Date Collected: 03/22/23 10:20

Matrix: Water

Date Received: 03/22/23 15:58

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.453	U	5.00	0.453	ug/L			03/27/23 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluoroethane	103		70 - 130					03/27/23 14:37	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.19	H	0.100	0.0391	mg/L			03/24/23 20:29	1
Sulfate	80.4		0.500	0.109	mg/L			03/24/23 20:29	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0459		0.00200	0.000224	mg/L		03/27/23 09:30	03/27/23 16:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	289		4.00	4.00	mg/L			03/25/23 13:09	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	289		4.00	4.00	mg/L			03/25/23 13:09	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/25/23 13:09	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/25/23 13:09	1
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/25/23 13:09	1
Ferrous Iron (SM 3500 FE D)	0.750	HF	0.0500	0.0280	mg/L			03/27/23 11:52	1

Client Sample ID: MW-6

Lab Sample ID: 880-26256-2

Date Collected: 03/22/23 11:45

Matrix: Water

Date Received: 03/22/23 15:58

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.453	U	5.00	0.453	ug/L			03/27/23 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluoroethane	102		70 - 130					03/27/23 14:54	1

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	1.45	H	0.100	0.0391	mg/L			03/24/23 21:31	1
Sulfate	54.7		0.500	0.109	mg/L			03/24/23 21:31	1

Method: SW846 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	0.0154		0.00200	0.000224	mg/L		03/27/23 09:30	03/27/23 16:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity (SM 2320B)	339		4.00	4.00	mg/L			03/25/23 13:18	1
Bicarbonate Alkalinity as CaCO3 (SM 2320B)	339		4.00	4.00	mg/L			03/25/23 13:18	1
Carbonate Alkalinity as CaCO3 (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/25/23 13:18	1
Hydroxide Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/25/23 13:18	1

Eurofins Midland

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

Client Sample ID: MW-6
Date Collected: 03/22/23 11:45
Date Received: 03/22/23 15:58

Lab Sample ID: 880-26256-2
Matrix: Water

General Chemistry (Continued)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity (SM 2320B)	<4.00	U	4.00	4.00	mg/L			03/25/23 13:18	1
Ferrous Iron (SM 3500 FE D)	0.110	HF	0.0500	0.0280	mg/L			03/27/23 11:52	1

Surrogate Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

Method: RSK-175 - Dissolved Gases (GC)
Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
		fluoroethane					
Lab Sample ID	Client Sample ID	(70-130)					
880-26256-1	MW-11A	103					
880-26256-2	MW-6	102					
LCS 860-95986/5	Lab Control Sample	106					
LCSD 860-95986/6	Lab Control Sample Dup	106					
MB 860-95986/4	Method Blank	105					
Surrogate Legend							
Trifluoroethane = Trifluoroethane							

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-95986/4

Matrix: Water

Analysis Batch: 95986

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<0.453	U	5.00	0.453	ug/L			03/27/23 12:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Trifluoroethane	105		70 - 130					03/27/23 12:56	1

Lab Sample ID: LCS 860-95986/5

Matrix: Water

Analysis Batch: 95986

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Methane	19.9	18.16		ug/L		91	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
Trifluoroethane	106		70 - 130						

Lab Sample ID: LCSD 860-95986/6

Matrix: Water

Analysis Batch: 95986

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Methane	19.9	18.03		ug/L		91	70 - 130	1	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Trifluoroethane	106		70 - 130						

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-95757/3

Matrix: Water

Analysis Batch: 95757

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.109	U	0.500	0.109	mg/L			03/24/23 15:00	1

Lab Sample ID: LCS 860-95757/4

Matrix: Water

Analysis Batch: 95757

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Sulfate	10.0	9.456		mg/L		95	90 - 110		

Lab Sample ID: LCSD 860-95757/5

Matrix: Water

Analysis Batch: 95757

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	10.0	9.606		mg/L		96	90 - 110	2	20

Eurofins Midland

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LLCS 860-95757/7

Matrix: Water

Analysis Batch: 95757

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	0.500	0.4579	J	mg/L		92	50 - 150

Lab Sample ID: 880-26256-1 MS

Matrix: Water

Analysis Batch: 95757

Client Sample ID: MW-11A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Sulfate	80.4		10.0	88.14	4	mg/L		78	90 - 110

Lab Sample ID: 880-26256-1 MSD

Matrix: Water

Analysis Batch: 95757

Client Sample ID: MW-11A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Sulfate	80.4		10.0	88.19	4	mg/L		78	90 - 110	0	20

Lab Sample ID: MB 860-95758/3

Matrix: Water

Analysis Batch: 95758

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.0391	U	0.100	0.0391	mg/L			03/24/23 15:00	1

Lab Sample ID: LCS 860-95758/4

Matrix: Water

Analysis Batch: 95758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	10.0	9.995		mg/L		100	80 - 120

Lab Sample ID: LCSD 860-95758/5

Matrix: Water

Analysis Batch: 95758

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	10.0	10.12		mg/L		101	80 - 120	1	20

Lab Sample ID: LLCS 860-95758/6

Matrix: Water

Analysis Batch: 95758

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LLCS Result	LLCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	0.100	0.1266		mg/L		127	50 - 150

Lab Sample ID: 880-26256-1 MS

Matrix: Water

Analysis Batch: 95758

Client Sample ID: MW-11A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrate as N	1.19	H	10.0	9.863		mg/L		87	80 - 120

Eurofins Midland

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-26256-1 MSD

Matrix: Water

Analysis Batch: 95758

Client Sample ID: MW-11A

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Nitrate as N	1.19	H	10.0	9.872		mg/L		87	80 - 120	0	15

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-95939/1-A

Matrix: Water

Analysis Batch: 96047

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 95939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.000224	U	0.00200	0.000224	mg/L		03/27/23 09:30	03/27/23 16:17	1

Lab Sample ID: LCS 860-95939/2-A

Matrix: Water

Analysis Batch: 96047

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 95939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.100	0.1007		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-95939/3-A

Matrix: Water

Analysis Batch: 96047

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 95939

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.100	0.1004		mg/L		100	80 - 120	0	20

Lab Sample ID: 830-3213-H-1-B MS

Matrix: Water

Analysis Batch: 96047

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 95939

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Manganese	0.161		0.100	0.2520		mg/L		91	75 - 125

Lab Sample ID: 830-3213-H-1-C MSD

Matrix: Water

Analysis Batch: 96047

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 95939

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Manganese	0.161		0.100	0.2533		mg/L		92	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-95948/3

Matrix: Water

Analysis Batch: 95948

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/23 10:43	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/25/23 10:43	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			03/25/23 10:43	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/23 10:43	1

Eurofins Midland

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: MB 860-95948/3

Matrix: Water

Analysis Batch: 95948

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			03/25/23 10:43	1

Lab Sample ID: LCS 860-95948/4

Matrix: Water

Analysis Batch: 95948

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Alkalinity	250	233.1		mg/L		93	85 - 115

Lab Sample ID: LCSD 860-95948/5

Matrix: Water

Analysis Batch: 95948

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Alkalinity	250	235.9		mg/L		94	85 - 115	1	20

Lab Sample ID: 860-45451-C-4 DU

Matrix: Water

Analysis Batch: 95948

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Alkalinity	180		182.1		mg/L		1	20
Bicarbonate Alkalinity as CaCO3	180		182.1		mg/L		1	20
Carbonate Alkalinity as CaCO3	<4.00	U	<4.00	U	mg/L		NC	20
Hydroxide Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20
Phenolphthalein Alkalinity	<4.00	U	<4.00	U	mg/L		NC	20

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

Lab Sample ID: MB 860-95982/3

Matrix: Water

Analysis Batch: 95982

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0280	U	0.0500	0.0280	mg/L			03/27/23 11:52	1

Lab Sample ID: LCS 860-95982/4

Matrix: Water

Analysis Batch: 95982

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ferrous Iron	1.00	0.9200		mg/L		92	75 - 125

Lab Sample ID: LCSD 860-95982/5

Matrix: Water

Analysis Batch: 95982

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ferrous Iron	1.00	0.9200		mg/L		92	75 - 125	0	25

Eurofins Midland

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

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

Lab Sample ID: 880-26256-1 DU						Client Sample ID: MW-11A			
Matrix: Water						Prep Type: Total/NA			
Analysis Batch: 95982									
Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit	
Ferrous Iron	0.750	HF	0.7300		mg/L		3	25	

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

GC VOA

Analysis Batch: 95986

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26256-1	MW-11A	Total/NA	Water	RSK-175	
880-26256-2	MW-6	Total/NA	Water	RSK-175	
MB 860-95986/4	Method Blank	Total/NA	Water	RSK-175	
LCS 860-95986/5	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-95986/6	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 95757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26256-1	MW-11A	Total/NA	Water	300.0	
880-26256-2	MW-6	Total/NA	Water	300.0	
MB 860-95757/3	Method Blank	Total/NA	Water	300.0	
LCS 860-95757/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95757/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-95757/7	Lab Control Sample	Total/NA	Water	300.0	
880-26256-1 MS	MW-11A	Total/NA	Water	300.0	
880-26256-1 MSD	MW-11A	Total/NA	Water	300.0	

Analysis Batch: 95758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26256-1	MW-11A	Total/NA	Water	300.0	
880-26256-2	MW-6	Total/NA	Water	300.0	
MB 860-95758/3	Method Blank	Total/NA	Water	300.0	
LCS 860-95758/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-95758/5	Lab Control Sample Dup	Total/NA	Water	300.0	
LLCS 860-95758/6	Lab Control Sample	Total/NA	Water	300.0	
880-26256-1 MS	MW-11A	Total/NA	Water	300.0	
880-26256-1 MSD	MW-11A	Total/NA	Water	300.0	

Metals

Prep Batch: 95939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26256-1	MW-11A	Total/NA	Water	3010A	
880-26256-2	MW-6	Total/NA	Water	3010A	
MB 860-95939/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-95939/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-95939/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
830-3213-H-1-B MS	Matrix Spike	Total/NA	Water	3010A	
830-3213-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

Analysis Batch: 96047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26256-1	MW-11A	Total/NA	Water	6020A	95939
880-26256-2	MW-6	Total/NA	Water	6020A	95939
MB 860-95939/1-A	Method Blank	Total/NA	Water	6020A	95939
LCS 860-95939/2-A	Lab Control Sample	Total/NA	Water	6020A	95939
LCSD 860-95939/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	95939
830-3213-H-1-B MS	Matrix Spike	Total/NA	Water	6020A	95939
830-3213-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	95939

Eurofins Midland

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

General Chemistry

Analysis Batch: 95948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26256-1	MW-11A	Total/NA	Water	SM 2320B	
880-26256-2	MW-6	Total/NA	Water	SM 2320B	
MB 860-95948/3	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-95948/4	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-95948/5	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-45451-C-4 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 95982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26256-1	MW-11A	Total/NA	Water	SM 3500 FE D	
880-26256-2	MW-6	Total/NA	Water	SM 3500 FE D	
MB 860-95982/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-95982/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 860-95982/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	
880-26256-1 DU	MW-11A	Total/NA	Water	SM 3500 FE D	

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

Client Sample ID: MW-11A
Date Collected: 03/22/23 10:20
Date Received: 03/22/23 15:58

Lab Sample ID: 880-26256-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	95986	03/27/23 14:37	CZT	EET HOU
Total/NA	Analysis	300.0		1			95757	03/24/23 20:29	A1S	EET HOU
Total/NA	Analysis	300.0		1			95758	03/24/23 20:29	A1S	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	95939	03/27/23 09:30	MD	EET HOU
Total/NA	Analysis	6020A		1			96047	03/27/23 16:44	DP	EET HOU
Total/NA	Analysis	SM 2320B		1			95948	03/25/23 13:09	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	95982	03/27/23 11:52	SCI	EET HOU

Client Sample ID: MW-6
Date Collected: 03/22/23 11:45
Date Received: 03/22/23 15:58

Lab Sample ID: 880-26256-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	95986	03/27/23 14:54	CZT	EET HOU
Total/NA	Analysis	300.0		1			95757	03/24/23 21:31	A1S	EET HOU
Total/NA	Analysis	300.0		1			95758	03/24/23 21:31	A1S	EET HOU
Total/NA	Prep	3010A			50 mL	50 mL	95939	03/27/23 09:30	MD	EET HOU
Total/NA	Analysis	6020A		1			96047	03/27/23 16:46	DP	EET HOU
Total/NA	Analysis	SM 2320B		1			95948	03/25/23 13:18	TL	EET HOU
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	95982	03/27/23 11:52	SCI	EET HOU

Laboratory References:
EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
SM 2320B		Water	Bicarbonate Alkalinity as CaCO3
SM 2320B		Water	Carbonate Alkalinity as CaCO3
SM 2320B		Water	Hydroxide Alkalinity
SM 2320B		Water	Phenolphthalein Alkalinity
SM 3500 FE D		Water	Ferrous Iron

Method Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

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

Protocol References:

EPA = US Environmental Protection Agency

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

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

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

Laboratory References:

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

Sample Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26256-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26256-1	MW-11A	Water	03/22/23 10:20	03/22/23 15:58
880-26256-2	MW-6	Water	03/22/23 11:45	03/22/23 15:58

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

[illegible]

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 880-26256-1

Login Number: 26256
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 880-26256-1

Login Number: 26256

List Number: 2

Creator: Coch, Stephanie

List Source: Eurofins Houston

List Creation: 03/24/23 04:23 PM

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/3/2023 4:17:57 PM

JOB DESCRIPTION

CS Caylor
SDG NUMBER Lea County

JOB NUMBER

880-26260-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland

Job Notes

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

Authorization



Generated
4/3/2023 4:17:57 PM

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

Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 880-26260-1
SDG: Lea County

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	19
Lab Chronicle	21
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	29

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	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: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Job ID: 880-26260-1

Laboratory: Eurofins Midland

Narrative	Job Narrative 880-26260-1
-----------	------------------------------

Receipt

The samples were received on 3/22/2023 3:58 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 16.0°C

GC/MS Semi VOA

Method 8270D_SIM: Surrogate recovery for the following sample was outside the upper control limit: MW-11A (880-26260-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8270D_SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 860-96049 and analytical batch 860-96205 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC VOA

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Client Sample ID: MW-9A

Lab Sample ID: 880-26260-1

Date Collected: 03/22/23 09:30

Matrix: Water

Date Received: 03/22/23 15:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/31/23 18:26	1
Toluene	0.000769	J	0.00200	0.000367	mg/L			03/31/23 18:26	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/23 18:26	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/23 18:26	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/23 18:26	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/23 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130					03/31/23 18:26	1
1,4-Difluorobenzene (Surr)	105		70 - 130					03/31/23 18:26	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000769	J	0.00400	0.000657	mg/L			04/03/23 16:44	1

Client Sample ID: MW-18A

Lab Sample ID: 880-26260-2

Date Collected: 03/22/23 10:00

Matrix: Water

Date Received: 03/22/23 15:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/31/23 18:47	1
Toluene	0.000761	J	0.00200	0.000367	mg/L			03/31/23 18:47	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/23 18:47	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/23 18:47	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/23 18:47	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/23 18:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130					03/31/23 18:47	1
1,4-Difluorobenzene (Surr)	100		70 - 130					03/31/23 18:47	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000761	J	0.00400	0.000657	mg/L			04/03/23 16:44	1

Client Sample ID: MW-16A

Lab Sample ID: 880-26260-3

Date Collected: 03/22/23 11:05

Matrix: Water

Date Received: 03/22/23 15:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/31/23 19:07	1
Toluene	0.000657	J	0.00200	0.000367	mg/L			03/31/23 19:07	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/23 19:07	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/23 19:07	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/23 19:07	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/23 19:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130					03/31/23 19:07	1
1,4-Difluorobenzene (Surr)	107		70 - 130					03/31/23 19:07	1

Eurofins Midland

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Client Sample ID: MW-16A

Lab Sample ID: 880-26260-3

Date Collected: 03/22/23 11:05

Matrix: Water

Date Received: 03/22/23 15:58

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000657	J	0.00400	0.000657	mg/L			04/03/23 16:44	1

Client Sample ID: MW-15A

Lab Sample ID: 880-26260-4

Date Collected: 03/22/23 10:30

Matrix: Water

Date Received: 03/22/23 15:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/31/23 19:28	1
Toluene	0.000880	J	0.00200	0.000367	mg/L			03/31/23 19:28	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/23 19:28	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/23 19:28	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/23 19:28	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/23 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		03/31/23 19:28	1
1,4-Difluorobenzene (Surr)	102		70 - 130		03/31/23 19:28	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000880	J	0.00400	0.000657	mg/L			04/03/23 16:44	1

Client Sample ID: MW-17A

Lab Sample ID: 880-26260-5

Date Collected: 03/22/23 11:40

Matrix: Water

Date Received: 03/22/23 15:58

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000101	U	0.000183	0.000101	mg/L		03/27/23 16:49	03/29/23 01:01	1
Acenaphthylene	<0.0000848	U	0.000183	0.0000848	mg/L		03/27/23 16:49	03/29/23 01:01	1
Anthracene	<0.0000907	U	0.000183	0.0000907	mg/L		03/27/23 16:49	03/29/23 01:01	1
Benzo[a]anthracene	<0.000135	U	0.000183	0.000135	mg/L		03/27/23 16:49	03/29/23 01:01	1
Benzo[a]pyrene	<0.0000575	U	0.000183	0.0000575	mg/L		03/27/23 16:49	03/29/23 01:01	1
Benzo[b]fluoranthene	<0.0000705	U	0.000183	0.0000705	mg/L		03/27/23 16:49	03/29/23 01:01	1
Benzo[g,h,i]perylene	<0.000114	U	0.000183	0.000114	mg/L		03/27/23 16:49	03/29/23 01:01	1
Benzo[k]fluoranthene	<0.000117	U	0.000183	0.000117	mg/L		03/27/23 16:49	03/29/23 01:01	1
Chrysene	<0.000157	U	0.000183	0.000157	mg/L		03/27/23 16:49	03/29/23 01:01	1
Dibenz(a,h)anthracene	<0.0000766	U	0.000183	0.0000766	mg/L		03/27/23 16:49	03/29/23 01:01	1
Dibenzofuran	<0.000101	U	0.000183	0.000101	mg/L		03/27/23 16:49	03/29/23 01:01	1
Fluoranthene	<0.000158	U	0.000183	0.000158	mg/L		03/27/23 16:49	03/29/23 01:01	1
Fluorene	<0.000102	U	0.000183	0.000102	mg/L		03/27/23 16:49	03/29/23 01:01	1
Indeno[1,2,3-cd]pyrene	<0.0000920	U	0.000183	0.0000920	mg/L		03/27/23 16:49	03/29/23 01:01	1
Naphthalene	<0.0000979	U	0.00367	0.0000979	mg/L		03/27/23 16:49	03/29/23 01:01	1
Phenanthrene	<0.0000856	U	0.000183	0.0000856	mg/L		03/27/23 16:49	03/29/23 01:01	1
Pyrene	<0.000131	U	0.000183	0.000131	mg/L		03/27/23 16:49	03/29/23 01:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	122		54 - 146	03/27/23 16:49	03/29/23 01:01	1
Nitrobenzene-d5	113		46 - 151	03/27/23 16:49	03/29/23 01:01	1
p-Terphenyl-d14	55		51 - 139	03/27/23 16:49	03/29/23 01:01	1

Eurofins Midland

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Client Sample ID: MW-17A

Lab Sample ID: 880-26260-5

Date Collected: 03/22/23 11:40

Matrix: Water

Date Received: 03/22/23 15:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/31/23 19:48	1
Toluene	0.00103	J	0.00200	0.000367	mg/L			03/31/23 19:48	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/23 19:48	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/23 19:48	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/23 19:48	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/23 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130					03/31/23 19:48	1
1,4-Difluorobenzene (Surr)	109		70 - 130					03/31/23 19:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00103	J	0.00400	0.000657	mg/L			04/03/23 16:44	1

Client Sample ID: MW-14A

Lab Sample ID: 880-26260-6

Date Collected: 03/22/23 11:39

Matrix: Water

Date Received: 03/22/23 15:58

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000989	U	0.000180	0.0000989	mg/L		03/27/23 16:49	03/29/23 01:18	1
Acenaphthylene	<0.0000833	U	0.000180	0.0000833	mg/L		03/27/23 16:49	03/29/23 01:18	1
Anthracene	<0.0000890	U	0.000180	0.0000890	mg/L		03/27/23 16:49	03/29/23 01:18	1
Benzo[a]anthracene	<0.000133	U	0.000180	0.000133	mg/L		03/27/23 16:49	03/29/23 01:18	1
Benzo[a]pyrene	<0.0000565	U	0.000180	0.0000565	mg/L		03/27/23 16:49	03/29/23 01:18	1
Benzo[b]fluoranthene	<0.0000692	U	0.000180	0.0000692	mg/L		03/27/23 16:49	03/29/23 01:18	1
Benzo[g,h,i]perylene	<0.000112	U	0.000180	0.000112	mg/L		03/27/23 16:49	03/29/23 01:18	1
Benzo[k]fluoranthene	<0.000115	U	0.000180	0.000115	mg/L		03/27/23 16:49	03/29/23 01:18	1
Chrysene	<0.000154	U	0.000180	0.000154	mg/L		03/27/23 16:49	03/29/23 01:18	1
Dibenz(a,h)anthracene	<0.0000752	U	0.000180	0.0000752	mg/L		03/27/23 16:49	03/29/23 01:18	1
Dibenzofuran	<0.0000989	U	0.000180	0.0000989	mg/L		03/27/23 16:49	03/29/23 01:18	1
Fluoranthene	<0.000155	U	0.000180	0.000155	mg/L		03/27/23 16:49	03/29/23 01:18	1
Fluorene	<0.0000999	U	0.000180	0.0000999	mg/L		03/27/23 16:49	03/29/23 01:18	1
Indeno[1,2,3-cd]pyrene	<0.0000903	U	0.000180	0.0000903	mg/L		03/27/23 16:49	03/29/23 01:18	1
Naphthalene	<0.0000962	U	0.00360	0.0000962	mg/L		03/27/23 16:49	03/29/23 01:18	1
Phenanthrene	<0.0000841	U	0.000180	0.0000841	mg/L		03/27/23 16:49	03/29/23 01:18	1
Pyrene	<0.000129	U	0.000180	0.000129	mg/L		03/27/23 16:49	03/29/23 01:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	125		54 - 146				03/27/23 16:49	03/29/23 01:18	1
Nitrobenzene-d5	100		46 - 151				03/27/23 16:49	03/29/23 01:18	1
p-Terphenyl-d14	69		51 - 139				03/27/23 16:49	03/29/23 01:18	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/31/23 20:09	1
Toluene	0.00112	J	0.00200	0.000367	mg/L			03/31/23 20:09	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/23 20:09	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/23 20:09	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/23 20:09	1

Eurofins Midland

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Client Sample ID: MW-14A

Lab Sample ID: 880-26260-6

Date Collected: 03/22/23 11:39

Matrix: Water

Date Received: 03/22/23 15:58

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/23 20:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130					03/31/23 20:09	1
1,4-Difluorobenzene (Surr)	108		70 - 130					03/31/23 20:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00112	J	0.00400	0.000657	mg/L			04/03/23 16:44	1

Client Sample ID: MW-11A

Lab Sample ID: 880-26260-7

Date Collected: 03/22/23 10:20

Matrix: Water

Date Received: 03/22/23 15:58

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000980	U	0.000178	0.0000980	mg/L		03/27/23 16:49	03/29/23 01:35	1
Acenaphthylene	<0.0000825	U	0.000178	0.0000825	mg/L		03/27/23 16:49	03/29/23 01:35	1
Anthracene	<0.0000882	U	0.000178	0.0000882	mg/L		03/27/23 16:49	03/29/23 01:35	1
Benzo[a]anthracene	<0.000131	U	0.000178	0.000131	mg/L		03/27/23 16:49	03/29/23 01:35	1
Benzo[a]pyrene	<0.0000560	U	0.000178	0.0000560	mg/L		03/27/23 16:49	03/29/23 01:35	1
Benzo[b]fluoranthene	<0.0000686	U	0.000178	0.0000686	mg/L		03/27/23 16:49	03/29/23 01:35	1
Benzo[g,h,i]perylene	<0.000111	U	0.000178	0.000111	mg/L		03/27/23 16:49	03/29/23 01:35	1
Benzo[k]fluoranthene	<0.000114	U	0.000178	0.000114	mg/L		03/27/23 16:49	03/29/23 01:35	1
Chrysene	<0.000153	U	0.000178	0.000153	mg/L		03/27/23 16:49	03/29/23 01:35	1
Dibenz(a,h)anthracene	<0.0000745	U	0.000178	0.0000745	mg/L		03/27/23 16:49	03/29/23 01:35	1
Dibenzofuran	<0.0000980	U	0.000178	0.0000980	mg/L		03/27/23 16:49	03/29/23 01:35	1
Fluoranthene	<0.000154	U	0.000178	0.000154	mg/L		03/27/23 16:49	03/29/23 01:35	1
Fluorene	<0.0000990	U	0.000178	0.0000990	mg/L		03/27/23 16:49	03/29/23 01:35	1
Indeno[1,2,3-cd]pyrene	<0.0000895	U	0.000178	0.0000895	mg/L		03/27/23 16:49	03/29/23 01:35	1
Naphthalene	<0.0000953	U	0.00357	0.0000953	mg/L		03/27/23 16:49	03/29/23 01:35	1
Phenanthrene	<0.0000833	U	0.000178	0.0000833	mg/L		03/27/23 16:49	03/29/23 01:35	1
Pyrene	<0.000127	U	0.000178	0.000127	mg/L		03/27/23 16:49	03/29/23 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	166	S1+	54 - 146				03/27/23 16:49	03/29/23 01:35	1
Nitrobenzene-d5	98		46 - 151				03/27/23 16:49	03/29/23 01:35	1
p-Terphenyl-d14	95		51 - 139				03/27/23 16:49	03/29/23 01:35	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			04/02/23 00:00	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			04/02/23 00:00	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			04/02/23 00:00	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			04/02/23 00:00	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			04/02/23 00:00	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			04/02/23 00:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130					04/02/23 00:00	1
1,4-Difluorobenzene (Surr)	103		70 - 130					04/02/23 00:00	1

Eurofins Midland

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Client Sample ID: MW-11A

Lab Sample ID: 880-26260-7

Date Collected: 03/22/23 10:20

Matrix: Water

Date Received: 03/22/23 15:58

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			04/03/23 16:44	1

Client Sample ID: MW-6A

Lab Sample ID: 880-26260-8

Date Collected: 03/22/23 11:45

Matrix: Water

Date Received: 03/22/23 15:58

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000987	U	0.000180	0.0000987	mg/L		03/27/23 16:49	03/29/23 01:52	1
Acenaphthylene	<0.0000831	U	0.000180	0.0000831	mg/L		03/27/23 16:49	03/29/23 01:52	1
Anthracene	<0.0000889	U	0.000180	0.0000889	mg/L		03/27/23 16:49	03/29/23 01:52	1
Benzo[a]anthracene	<0.000132	U	0.000180	0.000132	mg/L		03/27/23 16:49	03/29/23 01:52	1
Benzo[a]pyrene	<0.0000564	U	0.000180	0.0000564	mg/L		03/27/23 16:49	03/29/23 01:52	1
Benzo[b]fluoranthene	<0.0000691	U	0.000180	0.0000691	mg/L		03/27/23 16:49	03/29/23 01:52	1
Benzo[g,h,i]perylene	<0.000112	U	0.000180	0.000112	mg/L		03/27/23 16:49	03/29/23 01:52	1
Benzo[k]fluoranthene	<0.000115	U	0.000180	0.000115	mg/L		03/27/23 16:49	03/29/23 01:52	1
Chrysene	<0.000154	U	0.000180	0.000154	mg/L		03/27/23 16:49	03/29/23 01:52	1
Dibenz(a,h)anthracene	<0.0000750	U	0.000180	0.0000750	mg/L		03/27/23 16:49	03/29/23 01:52	1
Dibenzofuran	<0.0000987	U	0.000180	0.0000987	mg/L		03/27/23 16:49	03/29/23 01:52	1
Fluoranthene	<0.000155	U	0.000180	0.000155	mg/L		03/27/23 16:49	03/29/23 01:52	1
Fluorene	<0.0000997	U	0.000180	0.0000997	mg/L		03/27/23 16:49	03/29/23 01:52	1
Indeno[1,2,3-cd]pyrene	<0.0000902	U	0.000180	0.0000902	mg/L		03/27/23 16:49	03/29/23 01:52	1
Naphthalene	<0.0000960	U	0.00359	0.0000960	mg/L		03/27/23 16:49	03/29/23 01:52	1
Phenanthrene	<0.0000839	U	0.000180	0.0000839	mg/L		03/27/23 16:49	03/29/23 01:52	1
Pyrene	<0.000128	U	0.000180	0.000128	mg/L		03/27/23 16:49	03/29/23 01:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	113		54 - 146	03/27/23 16:49	03/29/23 01:52	1
Nitrobenzene-d5	114		46 - 151	03/27/23 16:49	03/29/23 01:52	1
p-Terphenyl-d14	98		51 - 139	03/27/23 16:49	03/29/23 01:52	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			04/02/23 00:20	1
Toluene	0.000622	J	0.00200	0.000367	mg/L			04/02/23 00:20	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			04/02/23 00:20	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			04/02/23 00:20	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			04/02/23 00:20	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			04/02/23 00:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		04/02/23 00:20	1
1,4-Difluorobenzene (Surr)	104		70 - 130		04/02/23 00:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			04/03/23 16:44	1

Eurofins Midland

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Client Sample ID: MW-13A

Lab Sample ID: 880-26260-9

Date Collected: 03/22/23 09:50

Matrix: Water

Date Received: 03/22/23 15:58

Method: SW846 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000975	U	0.000177	0.0000975	mg/L		03/27/23 16:49	03/29/23 09:15	1
Acenaphthylene	<0.0000821	U	0.000177	0.0000821	mg/L		03/27/23 16:49	03/29/23 09:15	1
Anthracene	<0.0000878	U	0.000177	0.0000878	mg/L		03/27/23 16:49	03/29/23 09:15	1
Benzo[a]anthracene	<0.000131	U	0.000177	0.000131	mg/L		03/27/23 16:49	03/29/23 09:15	1
Benzo[a]pyrene	<0.0000557	U	0.000177	0.0000557	mg/L		03/27/23 16:49	03/29/23 09:15	1
Benzo[b]fluoranthene	<0.0000683	U	0.000177	0.0000683	mg/L		03/27/23 16:49	03/29/23 09:15	1
Benzo[g,h,i]perylene	<0.000110	U	0.000177	0.000110	mg/L		03/27/23 16:49	03/29/23 09:15	1
Benzo[k]fluoranthene	<0.000113	U	0.000177	0.000113	mg/L		03/27/23 16:49	03/29/23 09:15	1
Chrysene	<0.000152	U	0.000177	0.000152	mg/L		03/27/23 16:49	03/29/23 09:15	1
Dibenz[a,h]anthracene	<0.0000741	U	0.000177	0.0000741	mg/L		03/27/23 16:49	03/29/23 09:15	1
Dibenzofuran	<0.0000975	U	0.000177	0.0000975	mg/L		03/27/23 16:49	03/29/23 09:15	1
Fluoranthene	<0.000153	U	0.000177	0.000153	mg/L		03/27/23 16:49	03/29/23 09:15	1
Fluorene	<0.0000985	U	0.000177	0.0000985	mg/L		03/27/23 16:49	03/29/23 09:15	1
Indeno[1,2,3-cd]pyrene	<0.0000890	U	0.000177	0.0000890	mg/L		03/27/23 16:49	03/29/23 09:15	1
Naphthalene	<0.0000948	U	0.00355	0.0000948	mg/L		03/27/23 16:49	03/29/23 09:15	1
Phenanthrene	<0.0000829	U	0.000177	0.0000829	mg/L		03/27/23 16:49	03/29/23 09:15	1
Pyrene	<0.000127	U	0.000177	0.000127	mg/L		03/27/23 16:49	03/29/23 09:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	143		54 - 146	03/27/23 16:49	03/29/23 09:15	1
Nitrobenzene-d5	82		46 - 151	03/27/23 16:49	03/29/23 09:15	1
p-Terphenyl-d14	61		51 - 139	03/27/23 16:49	03/29/23 09:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			04/02/23 00:41	1
Toluene	0.000951	J	0.00200	0.000367	mg/L			04/02/23 00:41	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			04/02/23 00:41	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			04/02/23 00:41	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			04/02/23 00:41	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			04/02/23 00:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		04/02/23 00:41	1
1,4-Difluorobenzene (Surr)	105		70 - 130		04/02/23 00:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000951	J	0.00400	0.000657	mg/L			04/03/23 16:44	1

Eurofins Midland

Surrogate Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (54-146)	NBZ (46-151)	TPHd14 (51-139)
860-45564-B-1-B MSD	Matrix Spike Duplicate	128	117	76
860-45564-C-1-A MS	Matrix Spike	133	118	95
880-26260-5	MW-17A	122	113	55
880-26260-6	MW-14A	125	100	69
880-26260-7	MW-11A	166 S1+	98	95
880-26260-8	MW-6A	113	114	98
880-26260-9	MW-13A	143	82	61
LCS 860-96049/2-A	Lab Control Sample	119	126	123
LCSD 860-96049/3-A	Lab Control Sample Dup	112	118	115
MB 860-96049/1-A	Method Blank	110	103	90
Surrogate Legend				
FBP = 2-Fluorobiphenyl				
NBZ = Nitrobenzene-d5				
TPHd14 = p-Terphenyl-d14				

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-26260-1	MW-9A	97	105
880-26260-2	MW-18A	96	100
880-26260-3	MW-16A	99	107
880-26260-4	MW-15A	99	102
880-26260-5	MW-17A	104	109
880-26260-6	MW-14A	100	108
880-26260-7	MW-11A	96	103
880-26260-7 MS	MW-11A	105	108
880-26260-7 MSD	MW-11A	105	111
880-26260-8	MW-6A	103	104
880-26260-9	MW-13A	102	105
LCS 880-50015/3	Lab Control Sample	96	108
LCS 880-50015/96	Lab Control Sample	102	108
LCSD 880-50015/4	Lab Control Sample Dup	97	111
LCSD 880-50015/97	Lab Control Sample Dup	98	110
MB 880-49879/5-A	Method Blank	90	99
MB 880-50015/101	Method Blank	90	98
MB 880-50015/8	Method Blank	89	104
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Eurofins Midland

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 860-96049/1-A

Matrix: Water

Analysis Batch: 96205

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96049

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000101	U	0.000183	0.000101	mg/L		03/27/23 16:49	03/28/23 15:53	1
Acenaphthylene	<0.0000847	U	0.000183	0.0000847	mg/L		03/27/23 16:49	03/28/23 15:53	1
Anthracene	<0.0000905	U	0.000183	0.0000905	mg/L		03/27/23 16:49	03/28/23 15:53	1
Benzo[a]anthracene	<0.000135	U	0.000183	0.000135	mg/L		03/27/23 16:49	03/28/23 15:53	1
Benzo[a]pyrene	<0.0000574	U	0.000183	0.0000574	mg/L		03/27/23 16:49	03/28/23 15:53	1
Benzo[b]fluoranthene	<0.0000704	U	0.000183	0.0000704	mg/L		03/27/23 16:49	03/28/23 15:53	1
Benzo[g,h,i]perylene	<0.000114	U	0.000183	0.000114	mg/L		03/27/23 16:49	03/28/23 15:53	1
Benzo[k]fluoranthene	<0.000117	U	0.000183	0.000117	mg/L		03/27/23 16:49	03/28/23 15:53	1
Chrysene	<0.000157	U	0.000183	0.000157	mg/L		03/27/23 16:49	03/28/23 15:53	1
Dibenz(a,h)anthracene	<0.0000764	U	0.000183	0.0000764	mg/L		03/27/23 16:49	03/28/23 15:53	1
Dibenzofuran	<0.000101	U	0.000183	0.000101	mg/L		03/27/23 16:49	03/28/23 15:53	1
Fluoranthene	<0.000158	U	0.000183	0.000158	mg/L		03/27/23 16:49	03/28/23 15:53	1
Fluorene	<0.000102	U	0.000183	0.000102	mg/L		03/27/23 16:49	03/28/23 15:53	1
Indeno[1,2,3-cd]pyrene	<0.0000918	U	0.000183	0.0000918	mg/L		03/27/23 16:49	03/28/23 15:53	1
Naphthalene	<0.0000977	U	0.00366	0.0000977	mg/L		03/27/23 16:49	03/28/23 15:53	1
Phenanthrene	<0.0000855	U	0.000183	0.0000855	mg/L		03/27/23 16:49	03/28/23 15:53	1
Pyrene	<0.000131	U	0.000183	0.000131	mg/L		03/27/23 16:49	03/28/23 15:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	110		54 - 146	03/27/23 16:49	03/28/23 15:53	1
Nitrobenzene-d5	103		46 - 151	03/27/23 16:49	03/28/23 15:53	1
p-Terphenyl-d14	90		51 - 139	03/27/23 16:49	03/28/23 15:53	1

Lab Sample ID: LCS 860-96049/2-A

Matrix: Water

Analysis Batch: 96205

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96049

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0184	0.02275		mg/L		124	66 - 174
Acenaphthylene	0.0184	0.02232		mg/L		121	67 - 182
Anthracene	0.0184	0.02220		mg/L		121	55 - 191
Benzo[a]anthracene	0.0184	0.02132		mg/L		116	16 - 171
Benzo[a]pyrene	0.0184	0.02089		mg/L		113	10 - 165
Benzo[b]fluoranthene	0.0184	0.02034		mg/L		110	10 - 166
Benzo[g,h,i]perylene	0.0184	0.02272		mg/L		123	10 - 154
Benzo[k]fluoranthene	0.0184	0.02151		mg/L		117	10 - 178
Chrysene	0.0184	0.02162		mg/L		117	10 - 172
Dibenz(a,h)anthracene	0.0184	0.02018		mg/L		110	10 - 168
Dibenzofuran	0.0184	0.02242		mg/L		122	68 - 178
Fluoranthene	0.0184	0.02248		mg/L		122	52 - 185
Fluorene	0.0184	0.02183		mg/L		119	64 - 184
Indeno[1,2,3-cd]pyrene	0.0184	0.01950		mg/L		106	10 - 160
Naphthalene	0.0184	0.02079		mg/L		113	66 - 166
Phenanthrene	0.0184	0.02259		mg/L		123	66 - 184
Pyrene	0.0184	0.01707		mg/L		93	58 - 181

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	119		54 - 146

Eurofins Midland

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 860-96049/2-A
Matrix: Water
Analysis Batch: 96205

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96049

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	126		46 - 151
p-Terphenyl-d14	123		51 - 139

Lab Sample ID: LCSD 860-96049/3-A
Matrix: Water
Analysis Batch: 96205

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96049

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	0.0181	0.02101		mg/L		116	66 - 174	8	40
Acenaphthylene	0.0181	0.02137		mg/L		118	67 - 182	4	40
Anthracene	0.0181	0.02088		mg/L		115	55 - 191	6	40
Benzo[a]anthracene	0.0181	0.02000		mg/L		111	16 - 171	6	50
Benzo[a]pyrene	0.0181	0.01799		mg/L		99	10 - 165	15	50
Benzo[b]fluoranthene	0.0181	0.01635		mg/L		90	10 - 166	22	50
Benzo[g,h,i]perylene	0.0181	0.01559		mg/L		86	10 - 154	37	50
Benzo[k]fluoranthene	0.0181	0.01877		mg/L		104	10 - 178	14	50
Chrysene	0.0181	0.01710		mg/L		95	10 - 172	23	50
Dibenz(a,h)anthracene	0.0181	0.01642		mg/L		91	10 - 168	21	50
Dibenzofuran	0.0181	0.02108		mg/L		117	68 - 178	6	40
Fluoranthene	0.0181	0.02070		mg/L		114	52 - 185	8	40
Fluorene	0.0181	0.02054		mg/L		114	64 - 184	6	40
Indeno[1,2,3-cd]pyrene	0.0181	0.01586		mg/L		88	10 - 160	21	50
Naphthalene	0.0181	0.01932		mg/L		107	66 - 166	7	40
Phenanthrene	0.0181	0.02126		mg/L		118	66 - 184	6	40
Pyrene	0.0181	0.02079		mg/L		115	58 - 181	20	40

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	112		54 - 146
Nitrobenzene-d5	118		46 - 151
p-Terphenyl-d14	115		51 - 139

Lab Sample ID: 860-45564-B-1-B MSD
Matrix: Water
Analysis Batch: 96205

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 96049

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Acenaphthene	<0.0000973	U	0.0180	0.02280		mg/L		127	75 - 147	1	30
Acenaphthylene	<0.0000820	U	0.0180	0.02289		mg/L		127	78 - 153	2	30
Anthracene	<0.0000876	U	0.0180	0.02129		mg/L		118	73 - 155	2	30
Benzo[a]anthracene	<0.000130	U	0.0180	0.01549		mg/L		86	77 - 151	26	30
Benzo[a]pyrene	<0.0000556	U F2	0.0180	0.01407	F2	mg/L		78	56 - 163	36	30
Benzo[b]fluoranthene	<0.0000681	U F2	0.0180	0.01348	F2	mg/L		75	74 - 148	36	30
Benzo[g,h,i]perylene	<0.000110	U F1	0.0180	0.01318	F1	mg/L		73	77 - 147	23	30
Benzo[k]fluoranthene	<0.000113	U F2	0.0180	0.01471	F2	mg/L		82	67 - 152	37	30
Chrysene	<0.000152	U F2	0.0180	0.01511	F2	mg/L		84	66 - 156	31	30
Dibenz(a,h)anthracene	<0.0000740	U	0.0180	0.01279		mg/L		71	71 - 152	26	30
Dibenzofuran	<0.0000973	U	0.0180	0.02185		mg/L		121	70 - 168	3	30
Fluoranthene	<0.000153	U	0.0180	0.02048		mg/L		114	78 - 158	5	30

Eurofins Midland

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: 860-45564-B-1-B MSD

Matrix: Water

Analysis Batch: 96205

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 96049

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Fluorene	<0.0000983	U	0.0180	0.02221		mg/L		123	79 - 158	2	30
Indeno[1,2,3-cd]pyrene	<0.0000889	U F1	0.0180	0.01270	F1	mg/L		71	76 - 160	27	30
Naphthalene	<0.0000946	U	0.0180	0.02164		mg/L		120	72 - 142	1	30
Phenanthrene	<0.0000827	U	0.0180	0.02201		mg/L		122	76 - 139	1	30
Pyrene	<0.000127	U	0.0180	0.01902		mg/L		106	74 - 158	7	30
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
2-Fluorobiphenyl	128		54 - 146								
Nitrobenzene-d5	117		46 - 151								
p-Terphenyl-d14	76		51 - 139								

Lab Sample ID: 860-45564-C-1-A MS

Matrix: Water

Analysis Batch: 96205

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 96049

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Acenaphthene	<0.0000973	U	0.0179	0.02267		mg/L		127	75 - 147		
Acenaphthylene	<0.0000820	U	0.0179	0.02247		mg/L		126	78 - 153		
Anthracene	<0.0000876	U	0.0179	0.02168		mg/L		121	73 - 155		
Benzo[a]anthracene	<0.000130	U	0.0179	0.02014		mg/L		113	77 - 151		
Benzo[a]pyrene	<0.0000556	U F2	0.0179	0.02027		mg/L		114	56 - 163		
Benzo[b]fluoranthene	<0.0000681	U F2	0.0179	0.01949		mg/L		109	74 - 148		
Benzo[g,h,i]perylene	<0.000110	U F1	0.0179	0.01665		mg/L		93	77 - 147		
Benzo[k]fluoranthene	<0.000113	U F2	0.0179	0.02147		mg/L		120	67 - 152		
Chrysene	<0.000152	U F2	0.0179	0.02060		mg/L		115	66 - 156		
Dibenz(a,h)anthracene	<0.0000740	U	0.0179	0.01665		mg/L		93	71 - 152		
Dibenzofuran	<0.0000973	U	0.0179	0.02251		mg/L		126	70 - 168		
Fluoranthene	<0.000153	U	0.0179	0.02162		mg/L		121	78 - 158		
Fluorene	<0.0000983	U	0.0179	0.02180		mg/L		122	79 - 158		
Indeno[1,2,3-cd]pyrene	<0.0000889	U F1	0.0179	0.01669		mg/L		93	76 - 160		
Naphthalene	<0.0000946	U	0.0179	0.02176		mg/L		122	72 - 142		
Phenanthrene	<0.0000827	U	0.0179	0.02221		mg/L		124	76 - 139		
Pyrene	<0.000127	U	0.0179	0.02032		mg/L		114	74 - 158		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
2-Fluorobiphenyl	133		54 - 146								
Nitrobenzene-d5	118		46 - 151								
p-Terphenyl-d14	95		51 - 139								

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49879/5-A

Matrix: Water

Analysis Batch: 50015

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/29/23 16:16	04/01/23 11:55	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/29/23 16:16	04/01/23 11:55	1

Eurofins Midland

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

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

Lab Sample ID: MB 880-49879/5-A

Matrix: Water

Analysis Batch: 50015

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49879

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/29/23 16:16	04/01/23 11:55	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/29/23 16:16	04/01/23 11:55	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/29/23 16:16	04/01/23 11:55	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/29/23 16:16	04/01/23 11:55	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	90		70 - 130				03/29/23 16:16	04/01/23 11:55	1
1,4-Difluorobenzene (Surr)	99		70 - 130				03/29/23 16:16	04/01/23 11:55	1

Lab Sample ID: MB 880-50015/101

Matrix: Water

Analysis Batch: 50015

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000408	U	0.00200	0.000408	mg/L			04/01/23 23:31	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			04/01/23 23:31	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			04/01/23 23:31	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			04/01/23 23:31	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			04/01/23 23:31	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			04/01/23 23:31	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	90		70 - 130					04/01/23 23:31	1
1,4-Difluorobenzene (Surr)	98		70 - 130					04/01/23 23:31	1

Lab Sample ID: MB 880-50015/8

Matrix: Water

Analysis Batch: 50015

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/31/23 12:43	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/31/23 12:43	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/31/23 12:43	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/31/23 12:43	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/31/23 12:43	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/31/23 12:43	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	89		70 - 130					03/31/23 12:43	1
1,4-Difluorobenzene (Surr)	104		70 - 130					03/31/23 12:43	1

Lab Sample ID: LCS 880-50015/3

Matrix: Water

Analysis Batch: 50015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09907		mg/L		99	70 - 130
Toluene	0.100	0.1000		mg/L		100	70 - 130

Eurofins Midland

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

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

Lab Sample ID: LCS 880-50015/3

Matrix: Water

Analysis Batch: 50015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.08995		mg/L		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1768		mg/L		88	70 - 130
o-Xylene	0.100	0.08881		mg/L		89	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	96		70 - 130				
1,4-Difluorobenzene (Surr)	108		70 - 130				

Lab Sample ID: LCS 880-50015/96

Matrix: Water

Analysis Batch: 50015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09405		mg/L		94	70 - 130
Toluene	0.100	0.09022		mg/L		90	70 - 130
Ethylbenzene	0.100	0.08306		mg/L		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1639		mg/L		82	70 - 130
o-Xylene	0.100	0.08361		mg/L		84	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	102		70 - 130				
1,4-Difluorobenzene (Surr)	108		70 - 130				

Lab Sample ID: LCSD 880-50015/4

Matrix: Water

Analysis Batch: 50015

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1122		mg/L		112	70 - 130	12	20
Toluene	0.100	0.1117		mg/L		112	70 - 130	11	20
Ethylbenzene	0.100	0.09996		mg/L		100	70 - 130	11	20
m-Xylene & p-Xylene	0.200	0.1960		mg/L		98	70 - 130	10	20
o-Xylene	0.100	0.09912		mg/L		99	70 - 130	11	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		70 - 130						
1,4-Difluorobenzene (Surr)	111		70 - 130						

Lab Sample ID: LCSD 880-50015/97

Matrix: Water

Analysis Batch: 50015

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
Benzene	0.100	0.1056		mg/L		106	70 - 130	12	20
Toluene	0.100	0.1007		mg/L		101	70 - 130	11	20
Ethylbenzene	0.100	0.09232		mg/L		92	70 - 130	11	20
m-Xylene & p-Xylene	0.200	0.1821		mg/L		91	70 - 130	11	20
o-Xylene	0.100	0.09318		mg/L		93	70 - 130	11	20

Eurofins Midland

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: 880-26260-7 MS
Matrix: Water
Analysis Batch: 50015

Client Sample ID: MW-11A
Prep Type: Total/NA

Analyte	Sample		Spike	MS		Unit	D	%Rec	
	Result	Qualifier		Result	Qualifier			%Rec	Limits
Benzene	<0.000408	U	0.100	0.1106		mg/L		111	70 - 130
Toluene	<0.000367	U	0.100	0.1072		mg/L		107	70 - 130
Ethylbenzene	<0.000657	U	0.100	0.09870		mg/L		99	70 - 130
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1954		mg/L		98	70 - 130
o-Xylene	<0.000642	U	0.100	0.09977		mg/L		100	70 - 130

Surrogate	MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-26260-7 MSD
Matrix: Water
Analysis Batch: 50015

Client Sample ID: MW-11A
Prep Type: Total/NA

Analyte	Sample		Spike	MSD		Unit	D	%Rec		RPD	
	Result	Qualifier		Result	Qualifier			%Rec	Limits	RPD	Limit
Benzene	<0.000408	U	0.100	0.1113		mg/L		111	70 - 130	1	25
Toluene	<0.000367	U	0.100	0.1070		mg/L		107	70 - 130	0	25
Ethylbenzene	<0.000657	U	0.100	0.09849		mg/L		98	70 - 130	0	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1943		mg/L		97	70 - 130	1	25
o-Xylene	<0.000642	U	0.100	0.09891		mg/L		99	70 - 130	1	25

Surrogate	MSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Eurofins Midland

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

GC/MS Semi VOA

Prep Batch: 96049

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26260-5	MW-17A	Total/NA	Water	3511	
880-26260-6	MW-14A	Total/NA	Water	3511	
880-26260-7	MW-11A	Total/NA	Water	3511	
880-26260-8	MW-6A	Total/NA	Water	3511	
880-26260-9	MW-13A	Total/NA	Water	3511	
MB 860-96049/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-96049/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-96049/3-A	Lab Control Sample Dup	Total/NA	Water	3511	
860-45564-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	3511	
860-45564-C-1-A MS	Matrix Spike	Total/NA	Water	3511	

Analysis Batch: 96205

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26260-5	MW-17A	Total/NA	Water	8270D SIM	96049
880-26260-6	MW-14A	Total/NA	Water	8270D SIM	96049
880-26260-7	MW-11A	Total/NA	Water	8270D SIM	96049
880-26260-8	MW-6A	Total/NA	Water	8270D SIM	96049
MB 860-96049/1-A	Method Blank	Total/NA	Water	8270D SIM	96049
LCS 860-96049/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	96049
LCSD 860-96049/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	96049
860-45564-B-1-B MSD	Matrix Spike Duplicate	Total/NA	Water	8270D SIM	96049
860-45564-C-1-A MS	Matrix Spike	Total/NA	Water	8270D SIM	96049

Analysis Batch: 96284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26260-9	MW-13A	Total/NA	Water	8270D SIM	96049

GC VOA

Prep Batch: 49879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-49879/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 50015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26260-1	MW-9A	Total/NA	Water	8021B	
880-26260-2	MW-18A	Total/NA	Water	8021B	
880-26260-3	MW-16A	Total/NA	Water	8021B	
880-26260-4	MW-15A	Total/NA	Water	8021B	
880-26260-5	MW-17A	Total/NA	Water	8021B	
880-26260-6	MW-14A	Total/NA	Water	8021B	
880-26260-7	MW-11A	Total/NA	Water	8021B	
880-26260-8	MW-6A	Total/NA	Water	8021B	
880-26260-9	MW-13A	Total/NA	Water	8021B	
MB 880-49879/5-A	Method Blank	Total/NA	Water	8021B	49879
MB 880-50015/101	Method Blank	Total/NA	Water	8021B	
MB 880-50015/8	Method Blank	Total/NA	Water	8021B	
LCS 880-50015/3	Lab Control Sample	Total/NA	Water	8021B	
LCS 880-50015/96	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-50015/4	Lab Control Sample Dup	Total/NA	Water	8021B	
LCSD 880-50015/97	Lab Control Sample Dup	Total/NA	Water	8021B	

Eurofins Midland

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

GC VOA (Continued)

Analysis Batch: 50015 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26260-7 MS	MW-11A	Total/NA	Water	8021B	
880-26260-7 MSD	MW-11A	Total/NA	Water	8021B	

Analysis Batch: 50259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-26260-1	MW-9A	Total/NA	Water	Total BTEX	
880-26260-2	MW-18A	Total/NA	Water	Total BTEX	
880-26260-3	MW-16A	Total/NA	Water	Total BTEX	
880-26260-4	MW-15A	Total/NA	Water	Total BTEX	
880-26260-5	MW-17A	Total/NA	Water	Total BTEX	
880-26260-6	MW-14A	Total/NA	Water	Total BTEX	
880-26260-7	MW-11A	Total/NA	Water	Total BTEX	
880-26260-8	MW-6A	Total/NA	Water	Total BTEX	
880-26260-9	MW-13A	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Client Sample ID: MW-9A**Lab Sample ID: 880-26260-1****Date Collected: 03/22/23 09:30****Matrix: Water****Date Received: 03/22/23 15:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	03/31/23 18:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50259	04/03/23 16:44	SM	EET MID

Client Sample ID: MW-18A**Lab Sample ID: 880-26260-2****Date Collected: 03/22/23 10:00****Matrix: Water****Date Received: 03/22/23 15:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	03/31/23 18:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50259	04/03/23 16:44	SM	EET MID

Client Sample ID: MW-16A**Lab Sample ID: 880-26260-3****Date Collected: 03/22/23 11:05****Matrix: Water****Date Received: 03/22/23 15:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	03/31/23 19:07	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50259	04/03/23 16:44	SM	EET MID

Client Sample ID: MW-15A**Lab Sample ID: 880-26260-4****Date Collected: 03/22/23 10:30****Matrix: Water****Date Received: 03/22/23 15:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	03/31/23 19:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50259	04/03/23 16:44	SM	EET MID

Client Sample ID: MW-17A**Lab Sample ID: 880-26260-5****Date Collected: 03/22/23 11:40****Matrix: Water****Date Received: 03/22/23 15:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			54.6 mL	2 mL	96049	03/27/23 16:49	RC	EET HOU
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	96205	03/29/23 01:01	IS	EET HOU
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	03/31/23 19:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50259	04/03/23 16:44	SM	EET MID

Client Sample ID: MW-14A**Lab Sample ID: 880-26260-6****Date Collected: 03/22/23 11:39****Matrix: Water****Date Received: 03/22/23 15:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.6 mL	2 mL	96049	03/27/23 16:49	RC	EET HOU
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	96205	03/29/23 01:18	IS	EET HOU
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	03/31/23 20:09	MNR	EET MID

Eurofins Midland

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Client Sample ID: MW-14A**Lab Sample ID: 880-26260-6****Date Collected: 03/22/23 11:39****Matrix: Water****Date Received: 03/22/23 15:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			50259	04/03/23 16:44	SM	EET MID

Client Sample ID: MW-11A**Lab Sample ID: 880-26260-7****Date Collected: 03/22/23 10:20****Matrix: Water****Date Received: 03/22/23 15:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			56.1 mL	2 mL	96049	03/27/23 16:49	RC	EET HOU
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	96205	03/29/23 01:35	IS	EET HOU
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/02/23 00:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50259	04/03/23 16:44	SM	EET MID

Client Sample ID: MW-6A**Lab Sample ID: 880-26260-8****Date Collected: 03/22/23 11:45****Matrix: Water****Date Received: 03/22/23 15:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.7 mL	2 mL	96049	03/27/23 16:49	RC	EET HOU
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	96205	03/29/23 01:52	IS	EET HOU
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/02/23 00:20	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50259	04/03/23 16:44	SM	EET MID

Client Sample ID: MW-13A**Lab Sample ID: 880-26260-9****Date Collected: 03/22/23 09:50****Matrix: Water****Date Received: 03/22/23 15:58**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			56.4 mL	2 mL	96049	03/27/23 16:49	RC	EET HOU
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	96284	03/29/23 09:15	IS	EET HOU
Total/NA	Analysis	8021B		1	5 mL	5 mL	50015	04/02/23 00:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50259	04/03/23 16:44	SM	EET MID

Laboratory References:

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

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

Eurofins Midland

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-23-50	06-30-23
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8270D SIM	3511	Water	Dibenzofuran

Method Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET HOU
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030B	Purge and Trap	SW846	EET MID

Protocol References:

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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

Sample Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 880-26260-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-26260-1	MW-9A	Water	03/22/23 09:30	03/22/23 15:58
880-26260-2	MW-18A	Water	03/22/23 10:00	03/22/23 15:58
880-26260-3	MW-16A	Water	03/22/23 11:05	03/22/23 15:58
880-26260-4	MW-15A	Water	03/22/23 10:30	03/22/23 15:58
880-26260-5	MW-17A	Water	03/22/23 11:40	03/22/23 15:58
880-26260-6	MW-14A	Water	03/22/23 11:39	03/22/23 15:58
880-26260-7	MW-11A	Water	03/22/23 10:20	03/22/23 15:58
880-26260-8	MW-6A	Water	03/22/23 11:45	03/22/23 15:58
880-26260-9	MW-13A	Water	03/22/23 09:50	03/22/23 15:58



Environment Testing
Xenco

Chain of Custody

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

Work Order No: 20260

Project Manager	David Adkins	Bill to (if different)	Plans All American Pipeline
Company Name	Talon LPE	Company Name	Attn Camille Bryant
Address	408 Texas St	Address	
City, State ZIP	Artesia, NM 88210	City, State ZIP	SRS# 2002-10250
Phone	575-441-4835	Email	dadkins@talonlpe.com, mgomez@talonlpe.com

Project Name	CS Caylor	Turn Around	Pres. Code	ANALYSIS REQUEST	Preservative Codes
Project Number		☒ Routine ☐ Rush			None NO DI Water H ₂ O
Project Location	Lea, County	Due Date			Cool Cool MeOH Me
Sampler's Name	M. Gomez, N. Rose, J. Flores	TAT starts the day received by the lab. If received by 4:30pm			HCL HC HNO ₃ HN
PO #	SRS# 2002-10250				H ₂ SO ₄ H ₂ NaOH Na

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes
MW-1A	GW	3/12/23	4:30	N/A		3				None NO DI Water H ₂ O
MW-18A			10:00			3				Cool Cool MeOH Me
MW-16A			11:05			3				HCL HC HNO ₃ HN
MW-15A			10:30			3				H ₂ SO ₄ H ₂ NaOH Na
MW-17A			11:40			5				H ₃ PO ₄ HP
MW-14A			11:39			5				NaHSO ₄ NABIS
MW-11A			10:20			5				Na ₂ S ₂ O ₃ NaSO ₃
MW-6A			11:45			5				Zn Acetate+NaOH Zn
MW-13A			9:50			5				NaOH+Ascorbic Acid SAPC



880-26260 Chain of Custody

Total	200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn
Circle Method(s)	and Metal(s) to be analyzed	TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg 1631 / 245 1 / 7470 / 7471

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
		3/20/23			
		1559			

Eurofins Midland

1211 W. Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environment Testing

[illegible]

Eurofins Midland

1211 W Florida Ave
Midland, TX 79701
Phone: 432-704-5440

Chain of Custody Record



Environmental Testing

Client Information (Sub Contract Lab)		Sampler		Lab PM: Kramer Jessica		Carrier Tracking No(s):		COC No: 880-6605.1			
Client Contact: Shipping/Receiving		Phone:		E-Mail: Jessica.Kramer@et.eurofinsus.com		State of Origin: New Mexico		Page: Page 1 of 1			
Company: Eurofins Environment Testing South Centr				Accreditations Required (See note): NELAP Texas				Job #: 880-26260-1			
Address: 4145 Greenbriar Dr		Due Date Requested: 3/28/2023		Analysis Requested				Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)			
City: Stafford		TAT Requested (days):									
State, Zip: TX, 77477											
Phone: 281-240-4200(Tel)		PO #:									
Email:		WO #:									
Project Name: CS Caylor		Project #: 89000088									
Site:		SSOW#:									
Sample Identification		Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, G=waste/oil)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	2770D_SIM/3511 9270D (PAHs)-3511Pap	Total Number of Containers	Special Instructions/Note
MW-17A (880-26260-5)			3/22/23	11:40 Mountain		Water		X		2	
MW-14A (880-26260-6)			3/22/23	11:39 Mountain		Water		X		2	
MW-11A (880-26260-7)			3/22/23	10:20 Mountain		Water		X		2	
MW-6A (880-26260-8)			3/22/23	11:45 Mountain		Water		X		2	
MW-13A (880-26260-9)			3/22/23	09:50 Mountain		Water		X		2	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.											
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Deliverable Requested I II III IV Other (specify)						Special Instructions/QC Requirements.					
Empty Kit Relinquished by:				Date:		Time:		Method of Shipment:			
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact:		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:							
Δ Yes Δ No											

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 880-26260-1

SDG Number: Lea County

Login Number: 26260

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 880-26260-1

SDG Number: Lea County

Login Number: 26260

List Number: 2

Creator: Coch, Stephanie

List Source: Eurofins Houston

List Creation: 03/24/23 04:58 PM

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

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



Analytical Report

Prepared for:

David Adkins
Talon LPE
2901 S. State Hwy 349
Midland, TX 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Location: LOVINGTON HWY, NM
Lab Order Number: 3F21005



Current Certification

Report Date: 08/12/23

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10A	3F21005-01	Water	06/20/23 08:25	06-21-2023 11:25
MW-21	3F21005-02	Water	06/20/23 09:40	06-21-2023 11:25
MW-11A	3F21005-03	Water	06/20/23 11:55	06-21-2023 11:25

Dissolved Fe and Mn as well as RSKSOP-175 analysis were subcontracted to ALS Houston. Their report is attached after the Chain of Custody. Their TCEQ TNI certification number can be found here:

https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/labs/als_svcs_houston.pdf

Due to a catastrophic failure of our BTEX autosampler BTEX analysis was subcontracted to Summit Environmental Technologies, Cuyahoga Falls, OH. Their report is attached to the back of this report. Their current certification can be found here. https://www.tceq.texas.gov/assets/public/compliance/compliance_support/qa/txnelap_lab_list.pdf.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-10A
3F21005-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.00500	mg/L	1	P3G2702	07/03/23 12:18	07/03/23 12:18	EPA 8260B	SUB-16
Ethylbenzene	ND	0.00500	mg/L	1	P3G2702	07/03/23 12:18	07/03/23 12:18	EPA 8260B	SUB-16
Toluene	ND	0.00500	mg/L	1	P3G2702	07/03/23 12:18	07/03/23 12:18	EPA 8260B	SUB-16
Xylenes, total (v/v)	ND	0.00500	mg/L	1	P3G2702	07/03/23 12:18	07/03/23 12:18	EPA 8260B	SUB-16

Organics by GC

Ethane	ND	0.00100	mg/L	1	P3G2705	06/29/23 11:17	06/29/23 11:17	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3G2705	06/29/23 11:17	06/29/23 11:17	8015M	SUB-13
Methane	0.000679	0.000500	mg/L	1	P3G2705	06/29/23 11:17	06/29/23 11:17	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Total Alkalinity	219	10.0	mg/L	1	P3F2203	06/23/23 10:00	06/23/23 10:00	EPA 310.1M	
Nitrate as N	2.12	0.200	mg/L	1	P3F2204	06/22/23 07:00	06/29/23 18:56	EPA 300.0	
Sulfate	81.4	10.0	mg/L	10	P3F2204	06/22/23 07:00	06/29/23 14:50	EPA 300.0	

Dissolved Metals by EPA / Standard Methods

Iron	0.369	0.200	mg/L	1	P3G2705	06/30/23 10:00	07/03/23 20:35	EPA 6020A	SUB-13
Manganese	0.0189	0.00500	mg/L	1	P3G2705	06/30/23 10:00	07/03/23 20:35	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-21
3F21005-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.00500	mg/L	1	P3G2702	07/03/23 12:44	07/03/23 12:44	EPA 8260B	SUB-16
Ethylbenzene	ND	0.00500	mg/L	1	P3G2702	07/03/23 12:44	07/03/23 12:44	EPA 8260B	SUB-16
Toluene	ND	0.00500	mg/L	1	P3G2702	07/03/23 12:44	07/03/23 12:44	EPA 8260B	SUB-16
Xylenes, total (v/v)	ND	0.00500	mg/L	1	P3G2702	07/03/23 12:44	07/03/23 12:44	EPA 8260B	SUB-16

Organics by GC

Ethane	ND	0.00100	mg/L	1	P3G2705	06/29/23 11:31	06/29/23 11:31	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3G2705	06/29/23 11:31	06/29/23 11:31	8015M	SUB-13
Methane	0.000838	0.000500	mg/L	1	P3G2705	06/29/23 11:31	06/29/23 11:31	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Total Alkalinity	295	10.0	mg/L	1	P3F2203	06/23/23 10:00	06/23/23 10:00	EPA 310.1M	
Nitrate as N	0.641	0.200	mg/L	1	P3F2204	06/22/23 07:00	06/29/23 19:58	EPA 300.0	
Sulfate	58.6	10.0	mg/L	10	P3F2204	06/22/23 07:00	06/29/23 15:52	EPA 300.0	

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3G2705	06/30/23 10:00	07/02/23 20:37	EPA 6020A	SUB-13
Manganese	0.301	0.000500	mg/L	1	P3G2705	06/30/23 10:00	07/02/23 20:37	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-11A
3F21005-03 (Water)

Analyte	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Result	Limit							

Permian Basin Environmental Lab, L.P.

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.00500	mg/L	1	P3G2702	07/03/23 14:27	07/03/23 14:27	EPA 8260B	SUB-16
Ethylbenzene	ND	0.00500	mg/L	1	P3G2702	07/03/23 14:27	07/03/23 14:27	EPA 8260B	SUB-16
Toluene	ND	0.00500	mg/L	1	P3G2702	07/03/23 14:27	07/03/23 14:27	EPA 8260B	SUB-16
Xylenes, total (v/v)	ND	0.00500	mg/L	1	P3G2702	07/03/23 14:27	07/03/23 14:27	EPA 8260B	SUB-16

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3F2203 - *** DEFAULT PREP ***

Blank (P3F2203-BLK1)	Prepared & Analyzed: 06/23/23									
----------------------	-------------------------------	--	--	--	--	--	--	--	--	--

Total Alkalinity	ND	10.0	mg/L							
Carbonate Alkalinity	ND	10.0	"							
Bicarbonate Alkalinity	ND	10.0	"							
Hydroxide Alkalinity	ND	10.0	"							

LCS (P3F2203-BS1)	Prepared: 06/23/23 Analyzed: 06/26/23									
-------------------	---------------------------------------	--	--	--	--	--	--	--	--	--

Total Alkalinity	253		mg/L	250		101	80-120			
Carbonate Alkalinity	ND	10.0	"				80-120			
Bicarbonate Alkalinity	ND	10.0	"				80-120			
Hydroxide Alkalinity	ND	10.0	"				80-120			

LCS Dup (P3F2203-BSD1)	Prepared & Analyzed: 06/23/23									
------------------------	-------------------------------	--	--	--	--	--	--	--	--	--

Total Alkalinity	0.00		mg/L	250			80-120	200	20	
Carbonate Alkalinity	ND	10.0	"				80-120		20	
Bicarbonate Alkalinity	ND	10.0	"				80-120		20	
Hydroxide Alkalinity	ND	10.0	"				80-120		20	

Duplicate (P3F2203-DUP1)	Source: 3F12013-01		Prepared: 06/23/23 Analyzed: 06/26/23							
--------------------------	--------------------	--	---------------------------------------	--	--	--	--	--	--	--

Total Alkalinity	143	10.0	mg/L		143			0.00	20	
Carbonate Alkalinity	ND	10.0	"						20	
Bicarbonate Alkalinity	ND	10.0	"						20	
Hydroxide Alkalinity	ND	10.0	"						20	

Batch P3F2204 - *** DEFAULT PREP ***

Blank (P3F2204-BLK1)	Prepared: 06/22/23 Analyzed: 06/29/23									
----------------------	---------------------------------------	--	--	--	--	--	--	--	--	--

Nitrate as N	ND	0.200	mg/L							
Sulfate	ND	1.00	"							

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3F2204 - *** DEFAULT PREP ***										
LCS (P3F2204-BS1)				Prepared: 06/22/23 Analyzed: 06/29/23						
Nitrate as N	10.3		mg/L	10.0		103	90-110			
Sulfate	10.0		"	10.0		100	90-110			
LCS Dup (P3F2204-BSD1)				Prepared: 06/22/23 Analyzed: 06/29/23						
Nitrate as N	10.2		mg/L	10.0		102	90-110	0.283	10	
Sulfate	10.0		"	10.0		100	90-110	0.0800	10	
Calibration Check (P3F2204-CCV1)				Prepared: 06/22/23 Analyzed: 06/29/23						
Nitrate as N	10.2		mg/L	10.0		102	90-110			
Sulfate	10.0		"	10.0		100	90-110			
Calibration Check (P3F2204-CCV2)				Prepared: 06/22/23 Analyzed: 06/29/23						
Nitrate as N	10.3		mg/L	10.0		103	90-110			
Sulfate	10.2		"	10.0		102	90-110			
Matrix Spike (P3F2204-MS1)				Source: 3F21005-01		Prepared: 06/22/23 Analyzed: 06/29/23				
Sulfate	18.8		mg/L	10.0	8.14	107	80-120			
Matrix Spike (P3F2204-MS2)				Source: 3F21005-01		Prepared: 06/22/23 Analyzed: 06/29/23				
Nitrate as N	12.6		mg/L	10.0	2.12	105	80-120			
Matrix Spike Dup (P3F2204-MSD1)				Source: 3F21005-01		Prepared: 06/22/23 Analyzed: 06/29/23				
Sulfate	18.8		mg/L	10.0	8.14	106	80-120	0.239	20	
Matrix Spike Dup (P3F2204-MSD2)				Source: 3F21005-01		Prepared: 06/22/23 Analyzed: 06/29/23				
Nitrate as N	12.5		mg/L	10.0	2.12	104	80-120	0.358	20	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Notes and Definitions

SUB-16 Subcontract of analyte/analysis to Summit Environmental Technologies, Cuyahoga Falls, Ohio.

SUB-13 Subcontract of analyte/analysis to ALS Houston.

ROI Received on Ice

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

8/12/2023

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

PBBLAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

L: _____ CH: _____ W: _____
Phone: 432-686-7235

Project Manager: DAVID ADKINSCompany Name: TALON/LPECompany Address: 408 W. TEXAS STREETCity/State/Zip: ARTEZIA, NMTelephone No: 575-441-4835Fax No: N/ASampler Signature: DWICHELL e-mail: dadkins@talonlpe.comReport Format: ☒ Standard ☐ TRRP ☐ NPDESPG #: SRS# 2002-10250Project Loc: LOVINGTON HWYProject#: RAINS ALL AMERICAN PPELProject Name: CS CAYLOR

Page 9 of 55

(lab use only)

ORDER #: 3F21005

LAB # (lab use only)

FIELD CODE

Beginning Depth

Ending Depth

Date Sampled

Time Sampled

Field Filtered

Total #. of Containers

Ice

HNO₃

HCl

H₂SO₄

NaOH

Na₂S₂O₃

None

Other (Specify)

DW=Drinking Water SL=Sludge

GW = Groundwater S=Soil/Solid

NP=Non-Potable Specify Other

TPH: TX 1005 TX 1006

Anions (Cl, SO₄, Alkalinity)

BTEX 80213/5030 or BTEX 8260

MNA

Preservation & # of Containers

Matrix

Analyze For:

TCLP:
TOTAL:

RUSH TAT (Pre-Schedule) 24, 48, 72 h

Standard TAT

Special Instructions: EMAIL ANALYTICALS TO: CAMILLE BRYANT - cbryant@paalp.com

KARLA ANNE HUGHES - khughes@paalp.com ANNIE COCHO - machoa@paalp.com

Relinquished by: [Signature] Date: 6-20-23 Time: 13:30 Received by: [Signature] Date: 6/21/23 Time: 11:20Relinquished by: [Signature] Date: 6-20-23 Time: 13:30 Received by: [Signature] Date: 6/21/23 Time: 11:20Relinquished by: [Signature] Date: 6-20-23 Time: 13:30 Received by: [Signature] Date: 6/21/23 Time: 11:20

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

Laboratory Comments:

Sample Containers Intact?

VOOCs Free of Headspace?

Labels on container(s)

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep.?

by Counter? UPS DHL

Temperature Upon Receipt: 1.9 °C Thermometer: 1.9 °C Factor: 1.9

Page 9 of 55

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701**

Phone: 432-686-7235
PBELAB SUB COC V2

Project Manager: Brent Barron

Project Name: SUBCONTRACT

Company Name PBEL

Project #:

Company Address: 1400 Rankin HWY

Project Loc:

City/State/Zip: Midland Texas 79701

PO #:

Telephone No: 432-661-4184

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

[illegible]

SPECIAL INSTRUCTIONS:

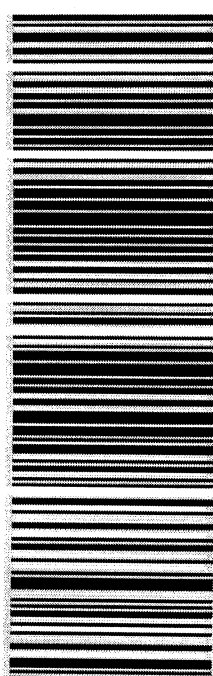
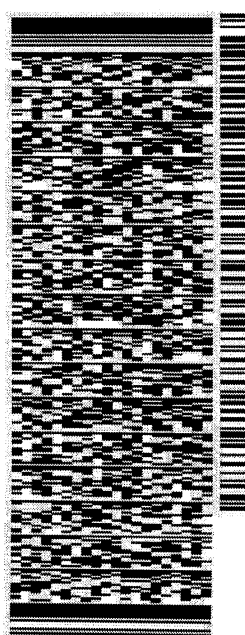
Relinquished by: Brent Barron	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

Laboratory Comments:

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

6/26/23, 4:47 PM

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID: MAF BRENT BARRON PBE LAB 1400 RANKIN HWY MIDLAND, TX 79701 UNITED STATES US		(432) 686-7235	SHIP DATE: 26 JUN 23 ACTWGT: 50.00 LB CAD: 107136846INET 46.10
TO SAMPLE RECEIVING ALS-HOUSTON 10450 STANCLIFF RD			BILL RECIPIENT
HOUSTON TX 77099 (281) 530-5615 REF: DEPT:			
TRK# 7725 6438 4162 0201		TUE - 27 JUN 4:30P STANDARD OVERNIGHT	
XA SGRA TX-US IAH 77099		 J222822046501ur	
			

583J2/29ABFE2D

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](https://www.fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

July 05, 2023

Brent Barron
PBE LAB
1400 Ranking HWY
Midland, TX 79701
TEL: (432) 686-7235
FAX:

RE: Subcontract

Dear Brent Barron:

Order No.: 23062425

Summit Environmental Technologies, Inc. received 3 sample(s) on 6/30/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Brian J. Fackelman

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Case Narrative

WO#: 23062425
Date: 7/5/2023

CLIENT: PBE LAB
Project: Subcontract

WorkOrder Narrative:

23062425: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Original



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Workorder
Sample Summary
WO#: 23062425
05-Jul-23

CLIENT: PBE LAB
Project: Subcontract

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23062425-001	3F21005-01		6/20/2023 8:25:00 AM	6/30/2023 10:10:00 AM	Non-Potable Water
23062425-002	3F21005-02		6/20/2023 9:40:00 AM	6/30/2023 10:10:00 AM	Non-Potable Water
23062425-003	3F21005-03		6/20/2023 11:55:00 AM	6/30/2023 10:10:00 AM	Non-Potable Water



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

DATES REPORT

WO#: 23062425
05-Jul-23

Client: PBE LAB
Project: Subcontract

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23062425-001A	3F21005-01	6/20/2023 8:25:00 AM	Non-Potable Water	VOC by GC/MS (8260D)			7/3/2023 12:18:00 PM
23062425-002A	3F21005-02	6/20/2023 9:40:00 AM		VOC by GC/MS (8260D)			7/3/2023 12:44:00 PM
23062425-003A	3F21005-03	6/20/2023 11:55:00 AM		VOC by GC/MS (8260D)			7/3/2023 2:27:00 PM

Original



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 23062425

Date Reported: 7/5/2023

Lab ID: 23062425-001

Collection Date: 6/20/2023 8:25:00 AM

Client Sample ID 3F21005-01

Matrix: NON-POTABLE WATER

Analysis	Result	MDL	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC BY GC/MS (8260D)					EPA 8260D			Analyst: ZDA
Benzene	ND	0.00125	0.00500	U	mg/L	5	R166574	7/3/2023 12:18:00 PM
Toluene	ND	0.00140	0.00500	U	mg/L	5	R166574	7/3/2023 12:18:00 PM
Ethylbenzene	ND	0.00240	0.00500	U	mg/L	5	R166574	7/3/2023 12:18:00 PM
Xylenes, Total	ND	0.00485	0.0250	U	mg/L	5	R166574	7/3/2023 12:18:00 PM
Surr: 4-Bromofluorobenzene	96.1		70-130		%Rec	5	R166574	7/3/2023 12:18:00 PM
Surr: Dibromofluoromethane	97.9		70-130		%Rec	5	R166574	7/3/2023 12:18:00 PM
Surr: Toluene-d8	101		70-130		%Rec	5	R166574	7/3/2023 12:18:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 23062425

Date Reported: 7/5/2023

Lab ID: 23062425-002

Collection Date: 6/20/2023 9:40:00 AM

Client Sample ID 3F21005-02

Matrix: NON-POTABLE WATER

Analysis	Result	MDL	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC BY GC/MS (8260D)					EPA 8260D			Analyst: ZDA
Benzene	ND	0.00125	0.00500	U	mg/L	5	R166574	7/3/2023 12:44:00 PM
Toluene	ND	0.00140	0.00500	U	mg/L	5	R166574	7/3/2023 12:44:00 PM
Ethylbenzene	ND	0.00240	0.00500	U	mg/L	5	R166574	7/3/2023 12:44:00 PM
Xylenes, Total	ND	0.00485	0.0250	U	mg/L	5	R166574	7/3/2023 12:44:00 PM
Surr: 4-Bromofluorobenzene	96.4		70-130		%Rec	5	R166574	7/3/2023 12:44:00 PM
Surr: Dibromofluoromethane	101		70-130		%Rec	5	R166574	7/3/2023 12:44:00 PM
Surr: Toluene-d8	102		70-130		%Rec	5	R166574	7/3/2023 12:44:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 23062425

Date Reported: 7/5/2023

Lab ID: 23062425-003

Collection Date: 6/20/2023 11:55:00 AM

Client Sample ID 3F21005-03

Matrix: NON-POTABLE WATER

Analysis	Result	MDL	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC BY GC/MS (8260D)					EPA 8260D			Analyst: ZDA
Benzene	ND	0.00125	0.00500	U	mg/L	5	R166574	7/3/2023 2:27:00 PM
Toluene	ND	0.00140	0.00500	U	mg/L	5	R166574	7/3/2023 2:27:00 PM
Ethylbenzene	ND	0.00240	0.00500	U	mg/L	5	R166574	7/3/2023 2:27:00 PM
Xylenes, Total	ND	0.00485	0.0250	U	mg/L	5	R166574	7/3/2023 2:27:00 PM
Surr: 4-Bromofluorobenzene	99.0		70-130		%Rec	5	R166574	7/3/2023 2:27:00 PM
Surr: Dibromofluoromethane	96.2		70-130		%Rec	5	R166574	7/3/2023 2:27:00 PM
Surr: Toluene-d8	101		70-130		%Rec	5	R166574	7/3/2023 2:27:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 23062425
05-Jul-23

Client: PBE LAB
Project: Subcontract

BatchID: R166574

Sample ID: EDB-DETL	SampType: DETL	TestCode: VOC-MSTR_		Units: mg/L	Prep Date:				RunNo: 166574		
Client ID: BatchQC	Batch ID: R166574	TestNo: SW8260		Analysis Date: 7/3/2023				SeqNo: 4462795			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.00500	0.000500	0	0	50	150				SU
Ethylbenzene	ND	0.00500	0.000500	0	0	50	150				SU
Toluene	ND	0.00500	0.000500	0	0	50	150				SU
Xylenes, Total	ND	0.00500	0.00150	0	0	50	150				SU

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
ND Not Detected
PL Permit Limit

E Value above quantitation range
M Manual Integration used to determine area response
OG1
R RPD outside accepted recovery limits

H Holding times for preparation or analy
MC Value is below Minimum Compound
P Second column confirmation exceeds
RL Reporting Detection Limit

Original



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 23062425

05-Jul-23

Client: PBE LAB
Project: Subcontract

BatchID: R166574

Sample ID: LCS	SampType: LCS	TestCode: VOC-MSTR_	Units: mg/L	Prep Date:				RunNo: 166574			
Client ID: LCSW	Batch ID: R166574	TestNo: SW8260		Analysis Date: 7/3/2023				SeqNo: 4462793			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0189	0.00500	0.0200	0	94.4	34	169				
Ethylbenzene	0.0185	0.00500	0.0200	0	92.6	59	133				
Toluene	0.0187	0.00500	0.0200	0	93.4	68	139				
Xylenes, Total	0.0572	0.00500	0.0600	0	95.3	70	144				
Surr: 4-Bromofluorobenzene	48.6		50.00		97.1	70	130				
Surr: Dibromofluoromethane	48.9		50.00		97.8	70	130				
Surr: Toluene-d8	50.1		50.00		100	70	130				

Sample ID: MB	SampType: MBLK	TestCode: VOC-MSTR_	Units: mg/L	Prep Date:					RunNo: 166574		
Client ID: PBW	Batch ID: R166574	TestNo: SW8260	Analysis Date: 7/3/2023					SeqNo: 4462796			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.00500									U
Ethylbenzene	ND	0.00500									U
Toluene	ND	0.00500									U
Xylenes, Total	ND	0.00500									U
Surr: 4-Bromofluorobenzene	49.9		50.00		99.8	70	130				
Surr: Dibromofluoromethane	49.3		50.00		98.6	70	130				
Surr: Toluene-d8	51.0		50.00		102	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 23062425

05-Jul-23

Client: PBE LAB
Project: Subcontract

BatchID: R166574

Sample ID: 23062425-001AMS	SampType: MS	TestCode: VOC-MSTR_	Units: mg/L	Prep Date:	RunNo: 166574						
Client ID: 3F21005-01	Batch ID: R166574	TestNo: SW8260	Analysis Date: 7/3/2023	SeqNo: 4462878							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0915	0.0250	0.100	0	91.5	34.3	169				
Ethylbenzene	0.0903	0.0250	0.100	0	90.3	59	133				
Toluene	0.0909	0.0250	0.100	0	90.9	68.1	139				
Xylenes, Total	0.277	0.0250	0.300	0	92.5	69.2	144				
Surr: 4-Bromofluorobenzene	247		250.0		98.8	70	130				
Surr: Dibromofluoromethane	259		250.0		104	70	130				
Surr: Toluene-d8	254		250.0		102	46.1	154				

Sample ID: 23062425-001AMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: mg/L	Prep Date:	RunNo: 166574						
Client ID: 3F21005-01	Batch ID: R166574	TestNo: SW8260	Analysis Date: 7/3/2023	SeqNo: 4462879							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0940	0.0250	0.100	0	94.0	34.3	169	0.0915	2.72	20	
Ethylbenzene	0.0917	0.0250	0.100	0	91.7	59	133	0.0903	1.62	20	
Toluene	0.0922	0.0250	0.100	0	92.2	68.1	139	0.0909	1.42	20	
Xylenes, Total	0.284	0.0250	0.300	0	94.5	69.2	144	0.277	2.17	20	
Surr: 4-Bromofluorobenzene	238		250.0		95.4	70	130		0	20	
Surr: Dibromofluoromethane	245		250.0		98.0	70	130		0	20	
Surr: Toluene-d8	250		250.0		100	46.1	154		0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 23062425
05-Jul-23

Client: PBE LAB
Project: Subcontract

BatchID: R166574

Sample ID: DETL	SampType: DETL	TestCode: VOC-MSTR_	Units: mg/L	Prep Date:	RunNo: 166574						
Client ID: BatchQC	Batch ID: R166574	TestNo: SW8260		Analysis Date: 7/3/2023	SeqNo: 4462794						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.00172	0.00500	0.00200	0	85.8	50	150				J
Ethylbenzene	0.00168	0.00500	0.00200	0	84.2	50	150				J
Toluene	0.00180	0.00500	0.00200	0	90.1	50	150				J
Xylenes, Total	0.00547	0.00500	0.00600	0	91.1	50	150				

Qualifiers: B Analyte detected in the associated Method Blank
J Analyte detected below quantitation limits
ND Not Detected
PL Permit Limit

E Value above quantitation range
M Manual Integration used to determine area response
OG1
R RPD outside accepted recovery limits

H Holding times for preparation or analy
MC Value is below Minimum Compound
P Second column confirmation exceeds
RL Reporting Detection Limit

Original



Summit Environmental Technologies, Inc.
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-446
Website: <http://www.settek.co>

Qualifiers and Acronyms

WO#: 23062425

Date: 7/5/2023

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B/MB+	The analyte was detected in the associated blank.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor
DF	Dilution Factor	RF	Response Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Original



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 432-686-7235

23062425

Project Manager:	Brent Barron	Project Name:	Subcontract
Company Name	Permian Basin Environmental Lab	Project #:	Midland
Company Address:	1400 Rankin Hwy	Project Loc:	Midland
City/State/Zip:	Midland Texas 79701	PO #:	
Telephone No:	432-686-7235	Report Format:	☐ Standard ☐
Fax No:			
Sampler Signature:	N/A	e-mail:	brentbarron@pbelab.com

1.3 H₂O = 1.3 °C; Fedex, cooler, ice



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Sample Log-In Check List

Client Name: **PBE-TX-79701**Work Order Number: **23062425**RcptNo: **1**Logged by: **Tegan A. Richards** **6/30/2023 10:10:00 AM**

Completed By: **Tegan A. Richards** **6/30/2023 6:41:30 PM**

Reviewed By: **Brian J. Fackelman** **7/3/2023 5:12:25 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date:
By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:
Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Not Present			



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 05, 2023

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS23061801**

Laboratory Results for: **3F21005**

Dear Brent Barron,

ALS Environmental received 2 sample(s) on Jun 27, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
Work Order: HS23061801

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23061801-01	3F21005-01	Water		20-Jun-2023 08:25	27-Jun-2023 09:40	☐
HS23061801-02	3F21005-02	Water		20-Jun-2023 09:40	27-Jun-2023 09:40	☐

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
Work Order: HS23061801

CASE NARRATIVE

GC Semivolatiles by Method RSK-175

Batch ID: R440253

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 197026

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 05-Jul-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3F21005	WorkOrder:HS23061801
Sample ID:	3F21005-01	Lab ID:HS23061801-01
Collection Date:	20-Jun-2023 08:25	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	29-Jun-2023 11:17
Ethene	ND		1.00	ug/L	1	29-Jun-2023 11:17
Methane	0.679		0.500	ug/L	1	29-Jun-2023 11:17
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 30-Jun-2023		Analyst: JC
Iron	0.369		0.200	mg/L	1	03-Jul-2023 20:35
Manganese	0.0189		0.00500	mg/L	1	03-Jul-2023 20:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 05-Jul-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3F21005	WorkOrder:HS23061801
Sample ID:	3F21005-02	Lab ID:HS23061801-02
Collection Date:	20-Jun-2023 09:40	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	29-Jun-2023 11:31
Ethene	ND		1.00	ug/L	1	29-Jun-2023 11:31
Methane	0.838		0.500	ug/L	1	29-Jun-2023 11:31
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 30-Jun-2023		Analyst: JC
Iron	ND		0.200	mg/L	1	03-Jul-2023 20:37
Manganese	0.301		0.00500	mg/L	1	03-Jul-2023 20:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
WorkOrder: HS23061801

Batch ID: 197026	Start Date: 30 Jun 2023 10:00	End Date: 30 Jun 2023 10:00
Method: DISS METALS PREP - WATER - SW3010A		Prep Code: 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061801-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23061801-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
WorkOrder: HS23061801

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 197026 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS23061801-01	3F21005-01	20 Jun 2023 08:25		30 Jun 2023 10:00	03 Jul 2023 20:35	1
HS23061801-02	3F21005-02	20 Jun 2023 09:40		30 Jun 2023 10:00	03 Jul 2023 20:37	1
Batch ID: R440253 (0)		Test Name : DISSOLVED GASES BY RSK-175			Matrix: Water	
HS23061801-01	3F21005-01	20 Jun 2023 08:25			29 Jun 2023 11:17	1
HS23061801-02	3F21005-02	20 Jun 2023 09:40			29 Jun 2023 11:31	1

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
WorkOrder: HS23061801

QC BATCH REPORT

Batch ID: R440253 (0)		Instrument: FID-4		Method: DISSOLVED GASES BY RSK-175					
MBLK	Sample ID: MBLK-230629	Units: ug/L		Analysis Date: 29-Jun-2023 09:54					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394336		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	ND	1.00							
Ethene	ND	1.00							
Methane	ND	0.500							

LCS	Sample ID: LCS-230629	Units: ug/L		Analysis Date: 29-Jun-2023 10:09					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394337		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	19.44	1.00	18.04	0	108	75 - 125			
Ethene	17.63	1.00	16.8	0	105	75 - 125			
Methane	8.08	0.500	9.647	0	83.8	75 - 125			

LCSD	Sample ID: LCSD-230629	Units: ug/L		Analysis Date: 29-Jun-2023 10:36					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394338		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	18.1	1.00	18.04	0	100	75 - 125	19.44	7.1	30
Ethene	16.58	1.00	16.8	0	98.7	75 - 125	17.63	6.14	30
Methane	7.506	0.500	9.647	0	77.8	75 - 125	8.08	7.37	30

DUP	Sample ID: HS23061597-01DUP	Units: ug/L		Analysis Date: 29-Jun-2023 14:05					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394350		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	ND	1.00					0	0	30
Ethene	ND	1.00					0	0	30
Methane	4.242	0.500					4.144	2.35	30

The following samples were analyzed in this batch: HS23061801-01 HS23061801-02

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
WorkOrder: HS23061801

QC BATCH REPORT

Batch ID: 197026 (0)		Instrument: ICPMS05		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLKF2-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:53					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399792		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	ND	0.200							
MBLK	Sample ID: MBLKF1-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:51					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399791		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	ND	0.200							
MBLK	Sample ID: MBLK-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:49					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399790		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	ND	0.200							
LCS	Sample ID: LCS-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:55					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399793		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	4.913	0.200	5	0	98.3	80 - 120			
MS	Sample ID: HS23061318-05MS	Units: mg/L		Analysis Date: 03-Jul-2023 20:01					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399796		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	4.963	0.200	5	0.008776	99.1	75 - 125			
MSD	Sample ID: HS23061318-05MSD	Units: mg/L		Analysis Date: 03-Jul-2023 20:03					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399797		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	4.927	0.200	5	0.008776	98.4	75 - 125	4.963	0.718	20

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
WorkOrder: HS23061801

QC BATCH REPORT

Batch ID: 197026 (0)		Instrument: ICPMS05		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)				
PDS	Sample ID: HS23061318-05PDS	Units: mg/L			Analysis Date: 03-Jul-2023 20:05			
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399798		PrepDate: 30-Jun-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD Limit Qual
Iron	10.39	0.200	10	0.008776	104	75 - 125		
SD	Sample ID: HS23061318-05SD	Units: mg/L			Analysis Date: 03-Jul-2023 19:59			
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399795		PrepDate: 30-Jun-2023		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D %D Limit Qual
Iron	ND	1.00					0.008776	0 10
The following samples were analyzed in this batch:		HS23061801-01 HS23061801-02						

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
WorkOrder: HS23061801

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

ALS Houston, US

Date: 05-Jul-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087-2023	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US

Date: 05-Jul-23

Sample Receipt Checklist

Work Order ID: HS23061801

Date/Time Received: 27-Jun-2023 09:40

Client Name: Permian Basin Lab

Received by: Corey Grandits

Completed By: /S/ Corey Grandits	27-Jun-2023 12:12	Reviewed by: /S/ Anna Kinchen	28-Jun-2023 09:23
eSignature	Date/Time	eSignature	Date/Time

Matrices: WCarrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Samplers name present on COC?	Yes ☐	No ☒	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	4.4UC/4.3C IR31		
Cooler(s)/Kit(s):	Blue		
Date/Time sample(s) sent to storage:	6/27/23		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☒	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

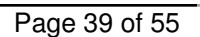
Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:



ORIGIN D:MAFA (432) 686-7235
BRENT PARKSON
PREMIER
1400 RANKIN HWY
MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 26 JUN 23
ACT WT: 50.00 LB
CAD: 107136945/NET14610
BILL RECIPIENT

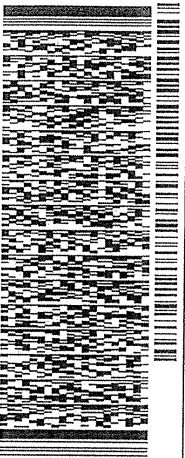
TO SAMPLE RECEIVING
AL-S-HOUSTON
10450 STANCLIFF RD
HOUSTON TX 77099
(281) 530-5615
INV REF
DEPT

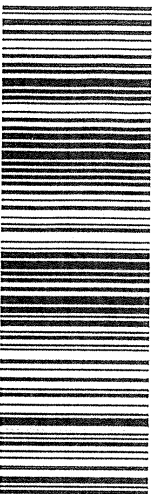
58312129ABFE2D

TK# 7725 6438 4162
0201

TUE - 27 JUN 4:30P
STANDARD OVERNIGHT

XA S GRA
TX-US IAH
77099





After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](https://www.fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 05, 2023

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS23061801**

Laboratory Results for: **3F21005**

Dear Brent Barron,

ALS Environmental received 2 sample(s) on Jun 27, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
Work Order: HS23061801

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23061801-01	3F21005-01	Water		20-Jun-2023 08:25	27-Jun-2023 09:40	☐
HS23061801-02	3F21005-02	Water		20-Jun-2023 09:40	27-Jun-2023 09:40	☐

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
Work Order: HS23061801

CASE NARRATIVE

GC Semivolatiles by Method RSK-175

Batch ID: R440253

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 197026

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 05-Jul-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3F21005	WorkOrder:HS23061801
Sample ID:	3F21005-01	Lab ID:HS23061801-01
Collection Date:	20-Jun-2023 08:25	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	29-Jun-2023 11:17
Ethene	ND		1.00	ug/L	1	29-Jun-2023 11:17
Methane	0.679		0.500	ug/L	1	29-Jun-2023 11:17
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 30-Jun-2023 Analyst: JC		
Iron	0.369		0.200	mg/L	1	03-Jul-2023 20:35
Manganese	0.0189		0.00500	mg/L	1	03-Jul-2023 20:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Houston, US

Date: 05-Jul-23

Client:	Permian Basin Environmental Lab, LP	ANALYTICAL REPORT
Project:	3F21005	WorkOrder:HS23061801
Sample ID:	3F21005-02	Lab ID:HS23061801-02
Collection Date:	20-Jun-2023 09:40	Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	29-Jun-2023 11:31
Ethene	ND		1.00	ug/L	1	29-Jun-2023 11:31
Methane	0.838		0.500	ug/L	1	29-Jun-2023 11:31
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 30-Jun-2023		Analyst: JC
Iron	ND		0.200	mg/L	1	03-Jul-2023 20:37
Manganese	0.301		0.00500	mg/L	1	03-Jul-2023 20:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
WorkOrder: HS23061801

Batch ID: 197026	Start Date: 30 Jun 2023 10:00	End Date: 30 Jun 2023 10:00
Method: DISS METALS PREP - WATER - SW3010A		Prep Code: 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061801-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2
HS23061801-02		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
WorkOrder: HS23061801

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 197026 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS23061801-01	3F21005-01	20 Jun 2023 08:25		30 Jun 2023 10:00	03 Jul 2023 20:35	1
HS23061801-02	3F21005-02	20 Jun 2023 09:40		30 Jun 2023 10:00	03 Jul 2023 20:37	1
Batch ID: R440253 (0)		Test Name : DISSOLVED GASES BY RSK-175			Matrix: Water	
HS23061801-01	3F21005-01	20 Jun 2023 08:25			29 Jun 2023 11:17	1
HS23061801-02	3F21005-02	20 Jun 2023 09:40			29 Jun 2023 11:31	1

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
WorkOrder: HS23061801

QC BATCH REPORT

Batch ID: R440253 (0)		Instrument: FID-4		Method: DISSOLVED GASES BY RSK-175					
MBLK	Sample ID: MBLK-230629	Units: ug/L		Analysis Date: 29-Jun-2023 09:54					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394336		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	ND	1.00							
Ethene	ND	1.00							
Methane	ND	0.500							

LCS	Sample ID: LCS-230629	Units: ug/L		Analysis Date: 29-Jun-2023 10:09					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394337		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	19.44	1.00	18.04	0	108	75 - 125			
Ethene	17.63	1.00	16.8	0	105	75 - 125			
Methane	8.08	0.500	9.647	0	83.8	75 - 125			

LCSD	Sample ID: LCSD-230629	Units: ug/L		Analysis Date: 29-Jun-2023 10:36					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394338		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	18.1	1.00	18.04	0	100	75 - 125	19.44	7.1	30
Ethene	16.58	1.00	16.8	0	98.7	75 - 125	17.63	6.14	30
Methane	7.506	0.500	9.647	0	77.8	75 - 125	8.08	7.37	30

DUP	Sample ID: HS23061597-01DUP	Units: ug/L		Analysis Date: 29-Jun-2023 14:05					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394350		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	ND	1.00					0	0	30
Ethene	ND	1.00					0	0	30
Methane	4.242	0.500					4.144	2.35	30

The following samples were analyzed in this batch: HS23061801-01 HS23061801-02

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F21005
WorkOrder: HS23061801

QC BATCH REPORT

Batch ID: 197026 (0)		Instrument: ICPMS05		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLKF2-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:53					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399792		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	ND	0.200							
MBLK	Sample ID: MBLKF1-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:51					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399791		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	ND	0.200							
MBLK	Sample ID: MBLK-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:49					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399790		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	ND	0.200							
LCS	Sample ID: LCS-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:55					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399793		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	4.913	0.200	5	0	98.3	80 - 120			
MS	Sample ID: HS23061318-05MS	Units: mg/L		Analysis Date: 03-Jul-2023 20:01					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399796		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	4.963	0.200	5	0.008776	99.1	75 - 125			
MSD	Sample ID: HS23061318-05MSD	Units: mg/L		Analysis Date: 03-Jul-2023 20:03					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399797		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	4.927	0.200	5	0.008776	98.4	75 - 125	4.963	0.718	20

ALS Houston, US

Date: 05-Jul-23

Client:

Permian Basin Environmental Lab, LP

Project:

3F21005

WorkOrder:

HS23061801

QC BATCH REPORT

Batch ID: 197026 (0)		Instrument: ICPMS05		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)	
PDS	Sample ID: HS23061318-05PDS	Units: mg/L		Analysis Date: 03-Jul-2023 20:05	
Client ID:	Run ID: ICPMS05_440420		SeqNo: 7399798	PrepDate: 30-Jun-2023	DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %RPD RPD Limit Qual
Iron	10.39	0.200	10	0.008776 104	75 - 125

SD	Sample ID: HS23061318-05SD	Units: mg/L		Analysis Date: 03-Jul-2023 19:59	
Client ID:	Run ID: ICPMS05_440420		SeqNo: 7399795	PrepDate: 30-Jun-2023	DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value %REC	Control Limit RPD Ref Value %D %D Limit Qual
Iron	ND	1.00			0.008776 0 10

The following samples were analyzed in this batch:

HS23061801-01HS23061801-02

ALS Houston, US

Date: 05-Jul-23

Client:	Permian Basin Environmental Lab, LP	QUALIFIERS, ACRONYMS, UNITS
Project:	3F21005	
WorkOrder:	HS23061801	

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

ALS Houston, US

Date: 05-Jul-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087-2023	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US

Date: 05-Jul-23

Sample Receipt Checklist

Work Order ID: HS23061801

Date/Time Received: 27-Jun-2023 09:40

Client Name: Permian Basin Lab

Received by: Corey Grandits

Completed By: /S/ Corey Grandits	27-Jun-2023 12:12	Reviewed by: /S/ Anna Kinchen	28-Jun-2023 09:23
eSignature	Date/Time	eSignature	Date/Time

Matrices: WCarrier name: FedEx

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Samplers name present on COC?	Yes ☐	No ☒	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	4.4UC/4.3C IR31		
Cooler(s)/Kit(s):	Blue		
Date/Time sample(s) sent to storage:	6/27/23		
Water - VOA vials have zero headspace?	Yes ☒	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☒	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environme
1400 Rankin HWY
Midland, Texas 79701

HS23061801

Permian Basin Environmental Lab, LP
3F21005

Project Manager: Brent Barron

Company Name PBEL

Company Address: 1400 Rankin HWY

City/State/Zip: Midland Texas 79701

Telephone No: 432-661-4184

Fax No:

Report Format: X Standard

☐ TRRP

☐ NPDES

Sampler Signature: N/A

e-mail: brentbarron@pbelab.com

PO #:

[illegible]

ORIGIN D:AAFA (432) 686-7235
BRENT PARKSON
PREMIER
1400 RANKIN HWY
MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 26 JUN 23
ACT WT: 50.00 LB
CAD - 107136845/NET 14610
BILL RECIPIENT

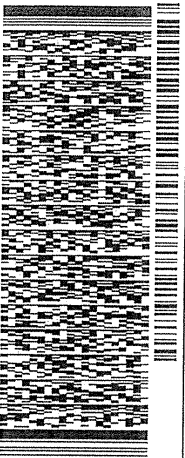
TO SAMPLE RECEIVING
ALS-HOUSTON
10450 STANCLIFF RD
HOUSTON TX 77099
(281) 530-5615
INV REF
DEPT

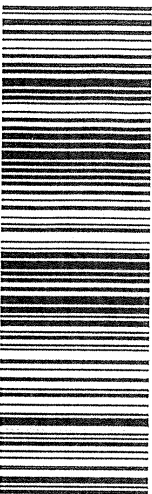
583.12129ABFE2D

TK# 7725 6438 4162
0201

TUE - 27 JUN 4:30P
STANDARD OVERNIGHT

XA S GRA
TX-US IAH
77099





After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](https://www.fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

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



Analytical Report

Prepared for:

David Adkins
Talon LPE
2901 S. State Hwy 349
Midland, TX 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Location: Lea County, NM
Lab Order Number: 3H24004



Current Certification

Report Date: 09/04/23

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-17A	3H24004-01	Water	08/23/23 10:36	08-24-2023 10:24
MW-16A	3H24004-02	Water	08/23/23 11:10	08-24-2023 10:24
MW-15A	3H24004-03	Water	08/23/23 11:40	08-24-2023 10:24
MW-14A	3H24004-04	Water	08/23/23 13:25	08-24-2023 10:24
MW-9A	3H24004-05	Water	08/23/23 09:42	08-24-2023 10:24

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-17A
3H24004-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	0.118	0.00100	mg/L	1	[CALC]	08/24/23 12:55	08/25/23 00:01	EPA 8021B	
Xylenes (total)	0.0534	0.00100	mg/L	1	[CALC]	08/24/23 12:55	08/25/23 00:01	EPA 8021B	
Organics by GC									
Benzene	0.00499	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 00:01	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 00:01	EPA 8021B	
Ethylbenzene	0.0599	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 00:01	EPA 8021B	
Xylene (p/m)	0.0450	0.00200	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 00:01	EPA 8021B	
Xylene (o)	0.00844	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 00:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	89.5 %		80-120		P3H2405	08/24/23 12:55	08/25/23 00:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	92.9 %		80-120		P3H2405	08/24/23 12:55	08/25/23 00:01	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-16A
3H24004-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	0.0455	0.00100	mg/L	1	[CALC]	08/24/23 12:55	08/25/23 00:24	EPA 8021B	
Xylenes (total)	0.0208	0.00100	mg/L	1	[CALC]	08/24/23 12:55	08/25/23 00:24	EPA 8021B	

Organics by GC

Benzene	0.00210	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 00:24	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 00:24	EPA 8021B	
Ethylbenzene	0.0226	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 00:24	EPA 8021B	
Xylene (p/m)	0.0174	0.00200	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 00:24	EPA 8021B	
Xylene (o)	0.00341	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 00:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	87.0 %		80-120		P3H2405	08/24/23 12:55	08/25/23 00:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	92.4 %		80-120		P3H2405	08/24/23 12:55	08/25/23 00:24	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-15A
3H24004-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	08/24/23 12:55	08/25/23 11:07	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	08/24/23 12:55	08/25/23 11:07	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:07	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:07	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:07	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:07	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.4 %		80-120		P3H2405	08/24/23 12:55	08/25/23 11:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	96.0 %		80-120		P3H2405	08/24/23 12:55	08/25/23 11:07	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-14A
3H24004-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	0.000790	0.00100	mg/L	1	[CALC]	08/24/23 12:55	08/25/23 11:30	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	08/24/23 12:55	08/25/23 11:30	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:30	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:30	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:30	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.7 %		80-120		P3H2405	08/24/23 12:55	08/25/23 11:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	96.3 %		80-120		P3H2405	08/24/23 12:55	08/25/23 11:30	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-9A
3H24004-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	0.000800	0.00100	mg/L	1	[CALC]	08/24/23 12:55	08/25/23 11:53	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	08/24/23 12:55	08/25/23 11:53	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:53	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:53	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:53	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:53	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3H2405	08/24/23 12:55	08/25/23 11:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.2 %		80-120		P3H2405	08/24/23 12:55	08/25/23 11:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.9 %		80-120		P3H2405	08/24/23 12:55	08/25/23 11:53	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3H2405 - *** DEFAULT PREP ***

Blank (P3H2405-BLK1)				Prepared & Analyzed: 08/24/23						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.1	80-120			

LCS (P3H2405-BS1)				Prepared & Analyzed: 08/24/23						
Benzene	0.0969	0.00100	mg/L	0.100		96.9	80-120			
Toluene	0.0920	0.00100	"	0.100		92.0	80-120			
Ethylbenzene	0.100	0.00100	"	0.100		100	80-120			
Xylene (p/m)	0.202	0.00200	"	0.200		101	80-120			
Xylene (o)	0.0892	0.00100	"	0.100		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.8	80-120			

LCS Dup (P3H2405-BSD1)				Prepared & Analyzed: 08/24/23						
Benzene	0.0917	0.00100	mg/L	0.100		91.7	80-120	5.52	20	
Toluene	0.0860	0.00100	"	0.100		86.0	80-120	6.73	20	
Ethylbenzene	0.0940	0.00100	"	0.100		94.0	80-120	6.49	20	
Xylene (p/m)	0.191	0.00200	"	0.200		95.4	80-120	5.58	20	
Xylene (o)	0.0846	0.00100	"	0.100		84.6	80-120	5.30	20	
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		96.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.5	80-120			

Calibration Blank (P3H2405-CCB1)				Prepared & Analyzed: 08/24/23						
Benzene	0.140		ug/l							
Toluene	0.210		"							
Ethylbenzene	0.100		"							
Xylene (p/m)	0.160		"							
Xylene (o)	0.170		"							
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		96.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3H2405 - *** DEFAULT PREP ***

Calibration Blank (P3H2405-CCB2)				Prepared & Analyzed: 08/24/23						
Benzene	0.120		ug/l							
Toluene	0.280		"							
Ethylbenzene	0.150		"							
Xylene (p/m)	0.370		"							
Xylene (o)	0.320		"							
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.8	80-120			

Calibration Check (P3H2405-CCV1)				Prepared & Analyzed: 08/24/23						
Benzene	0.0952	0.00100	mg/L	0.100		95.2	80-120			
Toluene	0.0975	0.00100	"	0.100		97.5	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.220	0.00200	"	0.200		110	80-120			
Xylene (o)	0.100	0.00100	"	0.100		100	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.2	80-120			

Calibration Check (P3H2405-CCV2)				Prepared & Analyzed: 08/24/23						
Benzene	0.0915	0.00100	mg/L	0.100		91.5	80-120			
Toluene	0.0897	0.00100	"	0.100		89.7	80-120			
Ethylbenzene	0.0948	0.00100	"	0.100		94.8	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.4	80-120			
Xylene (o)	0.0914	0.00100	"	0.100		91.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.4	80-120			

Calibration Check (P3H2405-CCV3)				Prepared: 08/24/23 Analyzed: 08/25/23						
Benzene	0.0972	0.00100	mg/L	0.100		97.2	80-120			
Toluene	0.0927	0.00100	"	0.100		92.7	80-120			
Ethylbenzene	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.4	80-120			
Xylene (o)	0.0876	0.00100	"	0.100		87.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.4	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P3H2405 - *** DEFAULT PREP ***

Matrix Spike (P3H2405-MS1)		Source: 3H24004-01		Prepared: 08/24/23		Analyzed: 08/25/23				
Benzene	0.0982	0.00100	mg/L	0.100	0.00499	93.2	80-120			
Toluene	0.0888	0.00100	"	0.100	ND	88.8	80-120			
Ethylbenzene	0.0903	0.00100	"	0.100	0.0599	30.4	80-120			QM-05
Xylene (p/m)	0.178	0.00200	"	0.200	0.0450	66.3	80-120			QM-05
Xylene (o)	0.0779	0.00100	"	0.100	0.00844	69.4	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	80-120			
Matrix Spike Dup (P3H2405-MSD1)		Source: 3H24004-01		Prepared: 08/24/23		Analyzed: 08/25/23				
Benzene	0.0966	0.00100	mg/L	0.100	0.00499	91.6	80-120	1.71	20	
Toluene	0.0873	0.00100	"	0.100	ND	87.3	80-120	1.68	20	
Ethylbenzene	0.0896	0.00100	"	0.100	0.0599	29.7	80-120	2.59	20	QM-05
Xylene (p/m)	0.174	0.00200	"	0.200	0.0450	64.7	80-120	2.49	20	QM-05
Xylene (o)	0.0766	0.00100	"	0.100	0.00844	68.1	80-120	1.86	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.7	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Notes and Definitions

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

Report Approved By:



Date: 9/4/2023

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



Project Name: CS Caylor
Plains All

Project #: Plains All American Pipeline

Project Loc: Lea County, NM

PO #: SRS# 2002-10250

Telephone No: 575-441-4835

Fax No:

Report Format: ☐ Standard

☐ TRRP

☐ NPDES

Sampler Signature:

e-mail: dadkins@talonlpe.com, mgomez@talonlpe.com

(lab use only)

ORDER #: 31724007

Analyze For:

Page 1 of 1

Released to Imaging: 8/13/2024 11:03:37 AM

3H24004

ORIGIN ID: H0BA (5/5) 392-7550

* MAIL SERVICES ETC LLC
4008 N GRIMESHOBBS, NM 88240
UNITED STATES USSHIP DATE: 23AUG23
ACTWGT: 0.50 LB MAN
CAD: 0103352/CAFE3313
DIMS: 27x15x14 IN

BILL SENDER

TO PERMAIN BASIN ENVIROMENTAL LAB LP
PERMAIN BASIN ENVIROMENTAL LAB LP
1400 RANKIN HWY

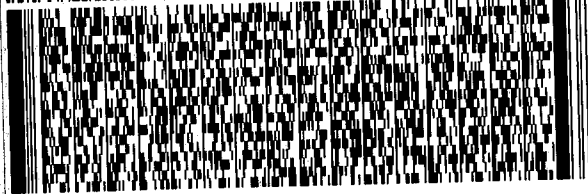
MIDLAND TX 79701

(575) 441-4835

REF:

INV:
PO:

DEPT:

FedEx
Express

J1912198620810

TRK#
0201

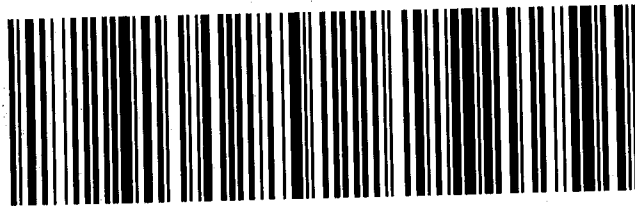
6424 9945 5511

THU - 24 AUG 12:00P
PRIORITY OVERNIGHT

41 MAFA

79701
TX-US LBB

Part # 156148-434 MTW EXP 10/23



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



Analytical Report

Prepared for:

David Adkins
Talon LPE
2901 S. State Hwy 349
Midland, TX 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Location: Lovington Hwy, NM
Lab Order Number: 3F22016



Current Certification

Report Date: 07/17/23

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW 6A	3F22016-01	Water	06/21/23 07:43	06-22-2023 12:40

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW 6A
3F22016-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Ethane	ND	1.00	mg/L	1	P3G1402	06/29/23 10:45	06/29/23 10:45	8015M	SUB-13
Ethene	ND	1.00	mg/L	1	P3G1402	06/29/23 10:45	06/29/23 10:45	8015M	SUB-13
Methane	ND	0.500	mg/L	1	P3G1402	06/29/23 10:45	06/29/23 10:45	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Total Alkalinity	350	10.0	mg/L	1	P3F2203	06/23/23 10:00	06/23/23 10:00	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P3F2203	06/23/23 10:00	06/23/23 10:00	EPA 310.1M	
Bicarbonate Alkalinity	ND	10.0	mg/L	1	P3F2203	06/23/23 10:00	06/23/23 10:00	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P3F2203	06/23/23 10:00	06/23/23 10:00	EPA 310.1M	
Nitrate as N	1.98	0.200	mg/L	1	P3F2204	06/22/23 07:00	06/29/23 20:19	EPA 300.0	
Sulfate	52.1	5.00	mg/L	5	P3F2204	06/22/23 07:00	06/29/23 16:12	EPA 300.0	

Dissolved Metals by EPA / Standard Methods

Iron	ND	0.200	mg/L	1	P3G1402	06/30/23 10:00	07/03/23 20:29	EPA 6010B	SUB-13
Manganese	0.00650	0.00500	mg/L	1	P3G1402	06/30/23 10:00	07/03/23 20:29	EPA 6010B	SUB-13

Volatile Organic Compounds by EPA Method 8260B

Benzene	ND	0.00500	mg/L	1	P3G1401	07/03/23 14:59	07/03/23 14:59	EPA 8260B	SUB-16
Ethylbenzene	ND	0.00500	mg/L	1	P3G1401	07/03/23 14:59	07/03/23 14:59	EPA 8260B	SUB-16
Toluene	ND	0.00500	mg/L	1	P3G1401	07/03/23 14:59	07/03/23 14:59	EPA 8260B	SUB-16
Xylenes (total)	ND	0.00500	mg/L	1	P3G1401	07/03/23 14:59	07/03/23 14:59	EPA 8260B	SUB-16

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3F2203 - *** DEFAULT PREP ***

Blank (P3F2203-BLK1)	Prepared & Analyzed: 06/23/23									
----------------------	-------------------------------	--	--	--	--	--	--	--	--	--

Total Alkalinity	ND	10.0	mg/L							
Carbonate Alkalinity	ND	10.0	"							
Bicarbonate Alkalinity	ND	10.0	"							
Hydroxide Alkalinity	ND	10.0	"							

LCS (P3F2203-BS1)	Prepared: 06/23/23 Analyzed: 06/26/23									
-------------------	---------------------------------------	--	--	--	--	--	--	--	--	--

Total Alkalinity	253		mg/L	250		101	80-120			
Carbonate Alkalinity	ND	10.0	"				80-120			
Bicarbonate Alkalinity	ND	10.0	"				80-120			
Hydroxide Alkalinity	ND	10.0	"				80-120			

LCS Dup (P3F2203-BSD1)	Prepared & Analyzed: 06/23/23									
------------------------	-------------------------------	--	--	--	--	--	--	--	--	--

Total Alkalinity	0.00		mg/L	250			80-120	200	20	
Carbonate Alkalinity	ND	10.0	"				80-120		20	
Bicarbonate Alkalinity	ND	10.0	"				80-120		20	
Hydroxide Alkalinity	ND	10.0	"				80-120		20	

Duplicate (P3F2203-DUP1)	Source: 3F12013-01		Prepared: 06/23/23 Analyzed: 06/26/23							
--------------------------	--------------------	--	---------------------------------------	--	--	--	--	--	--	--

Total Alkalinity	143	10.0	mg/L		143			0.00	20	
Carbonate Alkalinity	ND	10.0	"						20	
Bicarbonate Alkalinity	ND	10.0	"						20	
Hydroxide Alkalinity	ND	10.0	"						20	

Batch P3F2204 - *** DEFAULT PREP ***

Blank (P3F2204-BLK1)	Prepared: 06/22/23 Analyzed: 06/29/23									
----------------------	---------------------------------------	--	--	--	--	--	--	--	--	--

Sulfate	ND	1.00	mg/L							
Nitrate as N	ND	0.200	"							

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P3F2204 - * DEFAULT PREP *****

LCS (P3F2204-BS1)

Prepared: 06/22/23 Analyzed: 06/29/23

Nitrate as N	10.3		mg/L	10.0		103	90-110			
Sulfate	10.0		"	10.0		100	90-110			

LCS Dup (P3F2204-BSD1)

Prepared: 06/22/23 Analyzed: 06/29/23

Nitrate as N	10.2		mg/L	10.0		102	90-110	0.283	10	
Sulfate	10.0		"	10.0		100	90-110	0.0800	10	

Calibration Check (P3F2204-CCV1)

Prepared: 06/22/23 Analyzed: 06/29/23

Nitrate as N	10.2		mg/L	10.0		102	90-110			
Sulfate	10.0		"	10.0		100	90-110			

Calibration Check (P3F2204-CCV2)

Prepared: 06/22/23 Analyzed: 06/29/23

Nitrate as N	10.3		mg/L	10.0		103	90-110			
Sulfate	10.2		"	10.0		102	90-110			

Matrix Spike (P3F2204-MS1)

Source: 3F21005-01

Prepared: 06/22/23 Analyzed: 06/29/23

Sulfate	18.8		mg/L	10.0	8.14	107	80-120			
---------	------	--	------	------	------	-----	--------	--	--	--

Matrix Spike (P3F2204-MS2)

Source: 3F21005-01

Prepared: 06/22/23 Analyzed: 06/29/23

Nitrate as N	12.6		mg/L	10.0	2.12	105	80-120			
--------------	------	--	------	------	------	-----	--------	--	--	--

Matrix Spike Dup (P3F2204-MSD1)

Source: 3F21005-01

Prepared: 06/22/23 Analyzed: 06/29/23

Sulfate	18.8		mg/L	10.0	8.14	106	80-120	0.239	20	
---------	------	--	------	------	------	-----	--------	-------	----	--

Matrix Spike Dup (P3F2204-MSD2)

Source: 3F21005-01

Prepared: 06/22/23 Analyzed: 06/29/23

Nitrate as N	12.5		mg/L	10.0	2.12	104	80-120	0.358	20	
--------------	------	--	------	------	------	-----	--------	-------	----	--

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Notes and Definitions

SUB-16 Subcontract of analyte/analysis to Summit Environmental Technologies, Cuyahoga Falls, Ohio.

SUB-13 Subcontract of analyte/analysis to ALS Houston.

ROI Received on Ice

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

7/17/2023

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUESTPermian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701Phone: 432-686-7235
PBELAB_SUB_COC_V2Project Manager: Brent BarronProject Name: SUBCONTRACTCompany Name PBEL

Project #: _____

Company Address: 1400 Rankin HWY

Project Loc: _____

City/State/Zip: Midland Texas 79701

PO #: _____

Telephone No: 432-661-4184

Fax No: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: N/Ae-mail: brentbarron@pbelab.com

ORDER #:		Analyze For:														24 HOUR	STANDARD		
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Preservation & # of Containers							Matrix				
								ICE	HNO ₃ 250 poly 1	HCl 3 40mL VOA	H ₂ SO ₄ 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na ₂ S ₂ O ₃	NONE	NONE 3 AMBER VOAA VIALS				
	3F23016-01			6/23/2023	12:00		1	X	X						W	X	X		
	3F23016-02			6/23/2023	12:00		1	X	X						W	X	X		
	3F23016-03			6/23/2023	12:00		1	X	X						W	X	X		
	3F23016-04			6/23/2023	12:00		1	X	X						W	X	X		

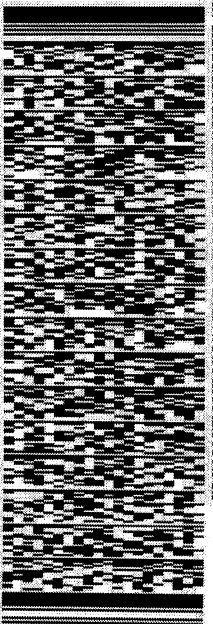
SPECIAL INSTRUCTIONS:

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

Relinquished by:	Date	Time	Received by:	Date	Time
Brent Barron					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time

6/26/23, 4:47 PM

FedEx Ship Manager - Print Your Label(s)

ORIGIN ID: MAF BRENT BARRON PBE LAB 1400 RANKIN HWY MIDLAND, TX 79701 UNITED STATES US		(432) 686-7235 SHIP DATE: 26 JUN 23 ACTWGT: 50.00 LB CAD: 107136846INET 46.10
TO SAMPLE RECEIVING ALS-HOUSTON 10450 STANCLIFF RD HOUSTON TX 77099		BILL RECIPIENT
TRK# 7725 6438 4162 0201 TX-US IAH 77099	TUE - 27 JUN 4:30P STANDARD OVERNIGHT	
 		
583J2/29ABFE2D		

After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](https://www.fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 05, 2023

Brent Barron
Permian Basin Environmental Lab, LP
10014 SCR 1213
Midland, TX 79706

Work Order: **HS23061800**

Laboratory Results for: **3F22016**

Dear Brent Barron,

ALS Environmental received 1 sample(s) on Jun 27, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Anna Kinchen
Project Manager

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F22016
Work Order: HS23061800

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23061800-01	3F22016-01	Water		21-Jun-2023 07:43	27-Jun-2023 09:40	☐

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F22016
Work Order: HS23061800

CASE NARRATIVE

GC Semivolatiles by Method RSK-175

Batch ID: R440253

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW6020A

Batch ID: 197026

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ALS Houston, US

Date: 05-Jul-23

Client:Permian Basin Environmental Lab, LP

Project:3F22016

Sample ID:3F22016-01

Collection Date:21-Jun-2023 07:43

ANALYTICAL REPORT

WorkOrder:HS23061800

Lab ID:HS23061800-01

Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: SAM		
Ethane	ND		1.00	ug/L	1	29-Jun-2023 10:45
Ethene	ND		1.00	ug/L	1	29-Jun-2023 10:45
Methane	1.26		0.500	ug/L	1	29-Jun-2023 10:45
DISSOLVED METALS BY SW6020A		Method:SW6020A (dissolved)		Prep:SW3010A / 30-Jun-2023		Analyst: JC
Iron	ND		0.200	mg/L	1	03-Jul-2023 20:29
Manganese	0.00650		0.00500	mg/L	1	03-Jul-2023 20:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Permian Basin Environmental Lab, LP
Project: 3F22016
WorkOrder: HS23061800

Batch ID: 197026	Start Date: 30 Jun 2023 10:00	End Date: 30 Jun 2023 10:00
Method: DISS METALS PREP - WATER - SW3010A		Prep Code: 3010A DISS

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23061800-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F22016
WorkOrder: HS23061800

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 197026 (0)		Test Name : DISSOLVED METALS BY SW6020A			Matrix: Water	
HS23061800-01	3F22016-01	21 Jun 2023 07:43		30 Jun 2023 10:00	03 Jul 2023 20:29	1
Batch ID: R440253 (0)		Test Name : DISSOLVED GASES BY RSK-175			Matrix: Water	
HS23061800-01	3F22016-01	21 Jun 2023 07:43			29 Jun 2023 10:45	1

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F22016
WorkOrder: HS23061800

QC BATCH REPORT

Batch ID: R440253 (0)		Instrument: FID-4		Method: DISSOLVED GASES BY RSK-175					
MBLK	Sample ID: MBLK-230629	Units: ug/L		Analysis Date: 29-Jun-2023 09:54					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394336		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	ND	1.00							
Ethene	ND	1.00							
Methane	ND	0.500							

LCS	Sample ID: LCS-230629	Units: ug/L		Analysis Date: 29-Jun-2023 10:09					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394337		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	19.44	1.00	18.04	0	108	75 - 125			
Ethene	17.63	1.00	16.8	0	105	75 - 125			
Methane	8.08	0.500	9.647	0	83.8	75 - 125			

LCSD	Sample ID: LCSD-230629	Units: ug/L		Analysis Date: 29-Jun-2023 10:36					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394338		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	18.1	1.00	18.04	0	100	75 - 125	19.44	7.1	30
Ethene	16.58	1.00	16.8	0	98.7	75 - 125	17.63	6.14	30
Methane	7.506	0.500	9.647	0	77.8	75 - 125	8.08	7.37	30

DUP	Sample ID: HS23061597-01DUP	Units: ug/L		Analysis Date: 29-Jun-2023 14:05					
Client ID:	Run ID: FID-4_440253	SeqNo: 7394350		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	ND	1.00					0	0	30
Ethene	ND	1.00					0	0	30
Methane	4.242	0.500					4.144	2.35	30

The following samples were analyzed in this batch: HS23061800-01

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F22016
WorkOrder: HS23061800

QC BATCH REPORT

Batch ID: 197026 (0)		Instrument: ICPMS05		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
MBLK	Sample ID: MBLKF2-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:53					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399792		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	ND	0.200							
MBLK	Sample ID: MBLKF1-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:51					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399791		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	ND	0.200							
MBLK	Sample ID: MBLK-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:49					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399790		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	ND	0.200							
LCS	Sample ID: LCS-197026	Units: mg/L		Analysis Date: 03-Jul-2023 19:55					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399793		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	4.913	0.200	5	0	98.3	80 - 120			
MS	Sample ID: HS23061318-05MS	Units: mg/L		Analysis Date: 03-Jul-2023 20:01					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399796		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	4.963	0.200	5	0.008776	99.1	75 - 125			
MSD	Sample ID: HS23061318-05MSD	Units: mg/L		Analysis Date: 03-Jul-2023 20:03					
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399797		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Iron	4.927	0.200	5	0.008776	98.4	75 - 125	4.963	0.718	20

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F22016
WorkOrder: HS23061800

QC BATCH REPORT

Batch ID: 197026 (0)		Instrument: ICPMS05		Method: DISSOLVED METALS BY SW6020A (DISSOLVED)					
PDS	Sample ID: HS23061318-05PDS	Units: mg/L			Analysis Date: 03-Jul-2023 20:05				
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399798		PrepDate: 30-Jun-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	Limit Qual
Iron	10.39	0.200	10	0.008776	104	75 - 125			
SD	Sample ID: HS23061318-05SD	Units: mg/L			Analysis Date: 03-Jul-2023 19:59				
Client ID:	Run ID: ICPMS05_440420	SeqNo: 7399795		PrepDate: 30-Jun-2023		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit Qual
Iron	ND	1.00					0.008776	0	10
The following samples were analyzed in this batch:		HS23061800-01							

ALS Houston, US

Date: 05-Jul-23

Client: Permian Basin Environmental Lab, LP
Project: 3F22016
WorkOrder: HS23061800

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

ALS Houston, US

Date: 05-Jul-23

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352; 2022-2023	31-Jul-2023
Louisiana	03087-2023	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932022-13	31-Jul-2023

ALS Houston, US

Date: 05-Jul-23

Sample Receipt Checklist

Work Order ID: HS23061800

Date/Time Received: 27-Jun-2023 09:40

Client Name: Permian Basin Lab

Received by: Corey Grandits

Completed By: /S/ Corey Grandits

27-Jun-2023 12:12

Reviewed by: /S/ Anna Kinchen

28-Jun-2023 09:20

eSignature

Date/Time

eSignature

Date/Time

Matrices: WCarrier name: FedEx

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐No ☐Not Present ☒

Custody seals intact on sample bottles?

Yes ☐No ☐Not Present ☒

VOA/TX1005/TX1006 Solids in hermetically sealed vials?

Yes ☐No ☐Not Present ☒

Chain of custody present?

Yes ☒No ☐

1 Page(s)

Chain of custody signed when relinquished and received?

Yes ☒No ☐

Samplers name present on COC?

Yes ☐No ☒

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

4.4UC/4.3C

IR31

Cooler(s)/Kit(s):

Blue

Date/Time sample(s) sent to storage:

6/27/23

Water - VOA vials have zero headspace?

Yes ☒No ☐No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☒No ☐N/A ☐

pH adjusted?

Yes ☐No ☒N/A ☐

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Enviror
1400 Rankin HWY
Midland, Texas 79701

HS23061800

Permian Basin Environmental Lab, LP
3F22016

Project Manager: Brent BarronCompany Name: PBELCompany Address: 1400 Rankin HWYCity/State/Zip: Midland Texas 79701Telephone No: 432-661-4184

Fax No: _____

Report Format: ☒ Standard ☐ TRRP ☐ NPDESSampler Signature: N/Ae-mail: brentbarron@pbelab.com

PO #: _____

ORDER #:		Preservation & # of Containers										Matrix		Analyze For:										24 HOUR	STANDARD									
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	ICE	HNO ₃ 250 poly 1	HCl 3 40mL VOA	H ₂ SO ₄ 1 AMBER 500/250POLY	NaOH /Ascorbic Acid 250ML P	Na ₂ S ₂ O ₃	NONE	NONE 3 AMBER VOAA VIALS	DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Fe Diss ICP 6010B	Mn DISS ICP 6010B	RSK SOP-175													
	3F22016-01			6/21/2023	7:43		4	X	X	X						W			X	X	X													X

SPECIAL INSTRUCTIONS:						Laboratory Comments:					
Relinquished by:	Date	Time	Received by:	Date	Time	Sample Containers Intact?	Y	N			
Brent Barron	6/26/23	17:00				VOCs Free of Headspace?	Y	N			
Relinquished by:	Date	Time	Received by:	Date	Time	Labels on container(s)	Y	N			
						Custody seals on container(s)	Y	N			
Relinquished by:	Date	Time	Received by:	Date	Time	Custody seals on cooler(s)	Y	N			
						Sample Hand Delivered	Y	N			
						by Sampler/Client Rep. ?	Y	N			
						by Courier?	UPS	DHL	FedEx	Lone Star	
						Temperature Upon Receipt:					
						Received:	44	°C			
						Adjusted:		°C Factor			

ORIGIN: DMAFA
BRENT BARRON
PRE LAB
1400 RANNN HWY
MIDLAND, TX 79701
UNITED STATES US

SHIP DATE: 28 JUN 23
ACT WGT: 50.00 LB
CAD: 107138949INET4610

TO SAMPLE RECEIVING
ALS-HOUSTON
10450 STANCLIFF RD
HOUSTON TX 77099
(281) 530-5615
REF-
PO
DEPT.

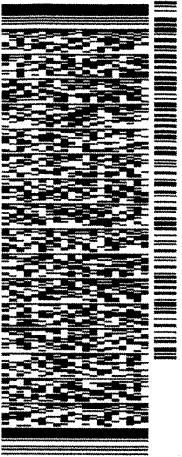
563J2Z29ABFE2D

TRK# 7725 6438 4162
0201

TUE - 27 JUN 4:30P
STANDARD OVERNIGHT

77099
TX-US IAH


723282254051100





After printing this label:

- 1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
- 2. Fold the printed page along the horizontal line.
- 3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on [fedex.com](https://www.fedex.com). FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

July 05, 2023

Brent Barron
PBE LAB
1400 Ranking HWY
Midland, TX 79701
TEL: (432) 686-7235
FAX:

RE: Subcontract

Dear Brent Barron:

Order No.: 23062428

Summit Environmental Technologies, Inc. received 1 sample(s) on 6/30/2023 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

Quality control data is within laboratory defined or method specified acceptance limits except where noted.

If you have any questions regarding these tests results, please feel free to call the laboratory.

Sincerely,

Brian J. Fackelman

Project Manager

3310 Win St.
Cuyahoga Falls, Ohio 44223

Arkansas 88-0735, California 2943, Colorado, Connecticut PH-0108, Florida NELAC E87688, Idaho OH00923, Illinois 200061, Indiana C-OH-13, ISO/IEC 17025:2017 119125 L22-544, Kansas E-10347, Kentucky (Underground Storage Tank) 3, Kentucky 90146, Maryland 339, Michigan 9988, Minnesota 1780279, Nevada OH009232020-1, New Hampshire 2996, New Jersey OH006, New York 11777, North Carolina 39705 and 631, North Dakota R-201, Ohio DW, Ohio VAP CL0052, Oklahoma 2019-155, Oregon OH200001, Pennsylvania 68-01335, Rhode Island LA000317, South Carolina 92016001, Texas T104704466-19-16, Utah OH009232020-12, Virginia VELAP 10381, West Virginia 9957C



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Case Narrative

WO#: 23062428
Date: 7/5/2023

CLIENT: PBE LAB
Project: Subcontract

WorkOrder Narrative:

23062428: This report in its entirety consists of the following documents: Cover Letter, Case Narrative, Analytical Results, QC Summary Report, Applicable Accreditation Information, Chain-of-Custody, Cooler Receipt Form, and other applicable forms as necessary. All documents contain the Summit Environmental Technologies, Inc., Work Order Number assigned to this report.

Summit Environmental Technologies, Inc., holds the accreditations/certifications listed at the bottom of the cover letter that may or may not pertain to this report. Please refer to the "Accreditation Program Analytes Report" for accredited analytes list.

The information contained in this analytical report is the sole property of Summit Environmental Technologies, Inc. and that of the customer. It cannot be reproduced in any form without the consent of Summit Environmental Technologies, Inc. or the customer for which this report was issued. The results contained in this report are only representative of the samples received. Conditions can vary at different times and at different sampling conditions. Summit Environmental Technologies, Inc. is not responsible for use or interpretation of the data included herein.

All results for Solid Samples are reported on an "as received" or "wet weight" basis unless indicated as "dry weight" using the "-dry" designation on the reporting units.

This report is believed to meet all of the requirements of the accrediting agency, where applicable. Any comments or problems with the analytical events associated with this report are noted below.

Original



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Workorder
Sample Summary
WO#: 23062428
05-Jul-23

CLIENT: PBE LAB
Project: Subcontract

Lab SampleID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
23062428-001	3F22016-01		6/21/2023 7:43:00 AM	6/30/2023 10:10:00 AM	Non-Potable Water



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

DATES REPORT

WO#: 23062428
05-Jul-23

Client: PBE LAB
Project: Subcontract

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
23062428-001A	3F22016-01	6/21/2023 7:43:00 AM	Non-Potable Water	VOC by GC/MS (8260D)			7/3/2023 2:53:00 PM

Original



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Analytical Report

(consolidated)

WO#: 23062428

Date Reported: 7/5/2023

Lab ID: 23062428-001

Collection Date: 6/21/2023 7:43:00 AM

Client Sample ID 3F22016-01

Matrix: NON-POTABLE WATER

Analysis	Result	MDL	PQL	Qual	Units	Dilution	Batch	Date Analyzed
VOC BY GC/MS (8260D)					EPA 8260D			Analyst: ZDA
Benzene	ND	0.00125	0.00500	U	mg/L	5	R166574	7/3/2023 2:53:00 PM
Toluene	ND	0.00140	0.00500	U	mg/L	5	R166574	7/3/2023 2:53:00 PM
Ethylbenzene	ND	0.00240	0.00500	U	mg/L	5	R166574	7/3/2023 2:53:00 PM
Xylenes, Total	ND	0.00485	0.0250	U	mg/L	5	R166574	7/3/2023 2:53:00 PM
Surr: 4-Bromofluorobenzene	97.5		70-130		%Rec	5	R166574	7/3/2023 2:53:00 PM
Surr: Dibromofluoromethane	95.0		70-130		%Rec	5	R166574	7/3/2023 2:53:00 PM
Surr: Toluene-d8	98.7		70-130		%Rec	5	R166574	7/3/2023 2:53:00 PM

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	M	Manual Integration used to determine area response
	MC	Value is below Minimum Compound Limit.	N	Tentatively identified compounds
	ND	Not Detected	OG1	
	P	Second column confirmation exceeds	PL	Permit Limit



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 23062428
05-Jul-23

Client: PBE LAB
Project: Subcontract

BatchID: R166574

Sample ID: EDB-DETL	SampType: DETL	TestCode: VOC-MSTR_	Units: mg/L	Prep Date:	RunNo: 166574						
Client ID: BatchQC	Batch ID: R166574	TestNo: SW8260		Analysis Date: 7/3/2023	SeqNo: 4462795						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.00500	0.000500	0	0	50	150				SU
Ethylbenzene	ND	0.00500	0.000500	0	0	50	150				SU
Toluene	ND	0.00500	0.000500	0	0	50	150				SU
Xylenes, Total	ND	0.00500	0.00150	0	0	50	150				SU

Qualifiers:	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
	J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
	ND	Not Detected	OG1		P	Second column confirmation exceeds
	PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 23062428

05-Jul-23

Client: PBE LAB
Project: Subcontract

BatchID: R166574

Sample ID: LCS	SampType: LCS	TestCode: VOC-MSTR_	Units: mg/L	Prep Date:	RunNo: 166574						
Client ID: LCSW	Batch ID: R166574	TestNo: SW8260	Analysis Date: 7/3/2023	SeqNo: 4462793							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0189	0.00500	0.0200	0	94.4	34	169				
Ethylbenzene	0.0185	0.00500	0.0200	0	92.6	59	133				
Toluene	0.0187	0.00500	0.0200	0	93.4	68	139				
Xylenes, Total	0.0572	0.00500	0.0600	0	95.3	70	144				
Surr: 4-Bromofluorobenzene	48.6		50.00		97.1	70	130				
Surr: Dibromofluoromethane	48.9		50.00		97.8	70	130				
Surr: Toluene-d8	50.1		50.00		100	70	130				

Sample ID: MB	SampType: MBLK	TestCode: VOC-MSTR_		Units: mg/L	Prep Date:				RunNo: 166574		
Client ID: PBW	Batch ID: R166574	TestNo: SW8260		Analysis Date: 7/3/2023				SeqNo: 4462796			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.00500									U
Ethylbenzene	ND	0.00500									U
Toluene	ND	0.00500									U
Xylenes, Total	ND	0.00500									U
Surr: 4-Bromofluorobenzene	49.9		50.00		99.8	70	130				
Surr: Dibromofluoromethane	49.3		50.00		98.6	70	130				
Surr: Toluene-d8	51.0		50.00		102	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 23062428
05-Jul-23

Client: PBE LAB
Project: Subcontract

BatchID: R166574

Sample ID: 23062425-001AMS	SampType: MS	TestCode: VOC-MSTR_	Units: mg/L	Prep Date:	RunNo: 166574						
Client ID: BatchQC	Batch ID: R166574	TestNo: SW8260	Analysis Date: 7/3/2023	SeqNo: 4462878							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0915	0.0250	0.100	0	91.5	34.3	169				
Ethylbenzene	0.0903	0.0250	0.100	0	90.3	59	133				
Toluene	0.0909	0.0250	0.100	0	90.9	68.1	139				
Xylenes, Total	0.277	0.0250	0.300	0	92.5	69.2	144				
Surr: 4-Bromofluorobenzene	247		250.0		98.8	70	130				
Surr: Dibromofluoromethane	259		250.0		104	70	130				
Surr: Toluene-d8	254		250.0		102	46.1	154				

Sample ID: 23062425-001AMSD	SampType: MSD	TestCode: VOC-MSTR_	Units: mg/L	Prep Date:					RunNo: 166574		
Client ID: BatchQC	Batch ID: R166574	TestNo: SW8260	Analysis Date: 7/3/2023					SeqNo: 4462879			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.0940	0.0250	0.100	0	94.0	34.3	169	0.0915	2.72	20	
Ethylbenzene	0.0917	0.0250	0.100	0	91.7	59	133	0.0903	1.62	20	
Toluene	0.0922	0.0250	0.100	0	92.2	68.1	139	0.0909	1.42	20	
Xylenes, Total	0.284	0.0250	0.300	0	94.5	69.2	144	0.277	2.17	20	
Surr: 4-Bromofluorobenzene	238		250.0		95.4	70	130		0	20	
Surr: Dibromofluoromethane	245		250.0		98.0	70	130		0	20	
Surr: Toluene-d8	250		250.0		100	46.1	154		0	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

QC SUMMARY REPORT

WO#: 23062428
05-Jul-23

Client: PBE LAB
Project: Subcontract

BatchID: R166574

Sample ID: DETL	SampType: DETL	TestCode: VOC-MSTR_	Units: mg/L	Prep Date:	RunNo: 166574						
Client ID: BatchQC	Batch ID: R166574	TestNo: SW8260	Analysis Date: 7/3/2023	SeqNo: 4462794							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.00172	0.00500	0.00200	0	85.8	50	150				J
Ethylbenzene	0.00168	0.00500	0.00200	0	84.2	50	150				J
Toluene	0.00180	0.00500	0.00200	0	90.1	50	150				J
Xylenes, Total	0.00547	0.00500	0.00600	0	91.1	50	150				

Qualifiers:

B	Analyte detected in the associated Method Blank	E	Value above quantitation range	H	Holding times for preparation or analy
J	Analyte detected below quantitation limits	M	Manual Integration used to determine area response	MC	Value is below Minimum Compound
ND	Not Detected	OG1		P	Second column confirmation exceeds
PL	Permit Limit	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

Original



Summit Environmental Technologies, Inc.
3310 Win S
Cuyahoga Falls, Ohio 4422
TEL: (330) 253-8211 FAX: (330) 253-446
Website: <http://www.settek.co>

Qualifiers and Acronyms

WO#: 23062428

Date: 7/5/2023

These commonly used Qualifiers and Acronyms may or may not be present in this report.

Qualifiers

U	The compound was analyzed for but was not detected.
J	The reported value is greater than the Method Detection Limit but less than the Reporting Limit.
H	The hold time for sample preparation and/or analysis was exceeded.
D	The result is reported from a dilution.
E	The result exceeded the linear range of the calibration or is estimated due to interference.
MC	The result is below the Minimum Compound Limit.
*	The result exceeds the Regulatory Limit or Maximum Contamination Limit.
m	Manual integration was used to determine the area response.
d	Manual integration in which peak was deleted
N	The result is presumptive based on a Mass Spectral library search assuming a 1:1 response.
P	The second column confirmation exceeded 25% difference.
C	The result has been confirmed by GC/MS.
X	The result was not confirmed when GC/MS Analysis was performed.
B/MB+	The analyte was detected in the associated blank.
G	The ICB or CCB contained reportable amounts of analyte.
QC-/+	The CCV recovery failed low (-) or high (+).
R/QDR	The RPD was outside of accepted recovery limits.
QL-/+	The LCS or LCSD recovery failed low (-) or high (+).
QLR	The LCS/LCSD RPD was outside of accepted recovery limits.
QM-/+	The MS or MSD recovery failed low (-) or high (+).
QMR	The MS/MSD RPD was outside of accepted recovery limits.
QV-/+	The ICV recovery failed low (-) or high (+).
S	The spike result was outside of accepted recovery limits.
Z	Deviation; A deviation from the method was performed; Please refer to the Case Narrative for additional information

Acronyms

ND	Not Detected	RL	Reporting Limit
QC	Quality Control	MDL	Method Detection Limit
MB	Method Blank	LOD	Level of Detection
LCS	Laboratory Control Sample	LOQ	Level of Quantitation
LCSD	Laboratory Control Sample Duplicate	PQL	Practical Quantitation Limit
QCS	Quality Control Sample	CRQL	Contract Required Quantitation Limit
DUP	Duplicate	PL	Permit Limit
MS	Matrix Spike	RegLvl	Regulatory Limit
MSD	Matrix Spike Duplicate	MCL	Maximum Contamination Limit
RPD	Relative Percent Different	MinCL	Minimum Compound Limit
ICV	Initial Calibration Verification	RA	Reanalysis
ICB	Initial Calibration Blank	RE	Reextraction
CCV	Continuing Calibration Verification	TIC	Tentatively Identified Compound
CCB	Continuing Calibration Blank	RT	Retention Time
RLC	Reporting Limit Check	CF	Calibration Factor
DF	Dilution Factor	RF	Response Factor

This list of Qualifiers and Acronyms reflects the most commonly utilized Qualifiers and Acronyms for reporting. Please refer to the Analytical Notes in the Case Narrative for any Qualifiers or Acronyms that do not appear in this list or for additional information regarding the use of these Qualifiers on reported data.

Original

23062428

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

Phone: 32-686-7235

Project Manager:	Brent Barron	Project Name:	Subcontract
Company Name	Permian Basin Environmental Lab	Project #:	Midland
Company Address:	1400 Rankin Hwy	Project Loc:	Midland
City/State/Zip:	Midland Texas 79701	PO #:	
Telephone No:	432-686-7235	Report Format:	☐ Standard ☒
Fax No:			
Sampler Signature:	N/A	e-mail:	brentbarron@pbelab.com

[illegible] $1.3 + 0.0 = 1.3^\circ\text{C}$; FeOlex, cooler, ice

Page 1 of 1



Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
TEL: (330) 253-8211 FAX: (330) 253-4489
Website: <http://www.settek.com>

Sample Log-In Check List

Client Name: **PBE-TX-79701**Work Order Number: **23062428**RcptNo: **1**Logged by: **Tegan A. Richards** **6/30/2023 10:10:00 AM**

Completed By: **Tegan A. Richards** **6/30/2023 6:45:11 PM**

Reviewed By: **Brian J. Fackelman** **7/3/2023 5:13:25 PM**

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? UPS

Log In

3. Coolers are present? Yes ☒ No ☐ NA ☐
4. Shipping container/cooler in good condition? Yes ☒ No ☐
Custody seals intact on shipping container/cooler? Yes ☐ No ☐ Not Present ☒
No. Seal Date: Signed By:
5. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☒ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
10. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
11. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? Yes ☒ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☒
13. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
14. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
15. Is it clear what analyses were requested? Yes ☒ No ☐
16. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: Date: By Whom: Via: ☐ eMail ☐ Phone ☐ Fax ☐ In PersonRegarding: Client Instructions:

18. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	Good	Not Present			

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



Analytical Report

Prepared for:

David Adkins
Talon LPE
2901 S. State Hwy 349
Midland, TX 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Location: Lea County, NM
Lab Order Number: 3H25001



Current Certification

Report Date: 09/12/23

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-13A	3H25001-01	Water	08/24/23 09:00	08-25-2023 10:50
MW-18A	3H25001-02	Water	08/24/23 09:21	08-25-2023 10:50
MW-12A	3H25001-03	Water	08/24/23 10:16	08-25-2023 10:50

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-13A
3H25001-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/01/23 16:22	09/03/23 11:12	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/01/23 16:22	09/03/23 11:12	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I0105	09/01/23 16:22	09/03/23 11:12	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0105	09/01/23 16:22	09/03/23 11:12	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0105	09/01/23 16:22	09/03/23 11:12	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0105	09/01/23 16:22	09/03/23 11:12	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0105	09/01/23 16:22	09/03/23 11:12	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	97.1 %		80-120		P3I0105	09/01/23 16:22	09/03/23 11:12	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.0 %		80-120		P3I0105	09/01/23 16:22	09/03/23 11:12	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-18A
3H25001-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/01/23 16:22	09/03/23 11:34	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/01/23 16:22	09/03/23 11:34	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I0105	09/01/23 16:22	09/03/23 11:34	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I0105	09/01/23 16:22	09/03/23 11:34	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I0105	09/01/23 16:22	09/03/23 11:34	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I0105	09/01/23 16:22	09/03/23 11:34	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I0105	09/01/23 16:22	09/03/23 11:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	98.0 %		80-120		P3I0105	09/01/23 16:22	09/03/23 11:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	99.1 %		80-120		P3I0105	09/01/23 16:22	09/03/23 11:34	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-12A
3H25001-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	4.49	0.00500	mg/L	15	[CALC]	09/01/23 16:22	09/03/23 12:42	EPA 8021B	
Xylenes (total)	0.531	0.00500	mg/L	5	[CALC]	09/01/23 16:22	09/03/23 11:56	EPA 8021B	

Organics by GC

Benzene	3.63	0.0150	mg/L	15	P3I0105	09/01/23 16:22	09/03/23 12:42	EPA 8021B	
Toluene	0.00575	0.00500	mg/L	5	P3I0105	09/01/23 16:22	09/03/23 11:56	EPA 8021B	
Ethylbenzene	0.324	0.00500	mg/L	5	P3I0105	09/01/23 16:22	09/03/23 11:56	EPA 8021B	
Xylene (p/m)	0.370	0.0100	mg/L	5	P3I0105	09/01/23 16:22	09/03/23 11:56	EPA 8021B	
Xylene (o)	0.162	0.00500	mg/L	5	P3I0105	09/01/23 16:22	09/03/23 11:56	EPA 8021B	

Surrogate: 4-Bromofluorobenzene	109 %	80-120		P3I0105	09/01/23 16:22	09/03/23 11:56	EPA 8021B		
Surrogate: 1,4-Difluorobenzene	144 %	80-120		P3I0105	09/01/23 16:22	09/03/23 11:56	EPA 8021B		S-GC

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3I0105 - *** DEFAULT PREP ***

Blank (P3I0105-BLK1)		Prepared: 09/01/23 Analyzed: 09/03/23								
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	80-120			

LCS (P3I0105-BS1)		Prepared: 09/01/23 Analyzed: 09/03/23								
Benzene	0.0914	0.00100	mg/L	0.100		91.4	80-120			
Toluene	0.0945	0.00100	"	0.100		94.5	80-120			
Ethylbenzene	0.105	0.00100	"	0.100		105	80-120			
Xylene (p/m)	0.218	0.00200	"	0.200		109	80-120			
Xylene (o)	0.0951	0.00100	"	0.100		95.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.121		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.1	80-120			

LCS Dup (P3I0105-BS1)		Prepared: 09/01/23 Analyzed: 09/03/23								
Benzene	0.0915	0.00100	mg/L	0.100		91.5	80-120	0.153	20	
Toluene	0.0925	0.00100	"	0.100		92.5	80-120	2.18	20	
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120	1.40	20	
Xylene (p/m)	0.214	0.00200	"	0.200		107	80-120	1.85	20	
Xylene (o)	0.0936	0.00100	"	0.100		93.6	80-120	1.54	20	
Surrogate: 4-Bromofluorobenzene	0.119		"	0.120		99.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.7	80-120			

Calibration Blank (P3I0105-CCB1)		Prepared: 09/01/23 Analyzed: 09/03/23								
Benzene	0.0900		ug/l							
Toluene	0.110		"							
Ethylbenzene	0.170		"							
Xylene (p/m)	0.190		"							
Xylene (o)	0.150		"							
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.0912		"	0.120		76.0	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3I0105 - *** DEFAULT PREP ***

Calibration Blank (P3I0105-CCB2)				Prepared: 09/01/23 Analyzed: 09/03/23						
Benzene	0.220		ug/l							
Toluene	0.170		"							
Ethylbenzene	0.260		"							
Xylene (p/m)	0.260		"							
Xylene (o)	0.250		"							
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.2	80-120			
Calibration Check (P3I0105-CCV1)				Prepared: 09/01/23 Analyzed: 09/03/23						
Benzene	0.0951	0.00100	mg/L	0.100		95.1	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.0985	0.00100	"	0.100		98.5	80-120			
Xylene (p/m)	0.230	0.00200	"	0.200		115	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			
Calibration Check (P3I0105-CCV2)				Prepared: 09/01/23 Analyzed: 09/03/23						
Benzene	0.0957	0.00100	mg/L	0.100		95.7	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.226	0.00200	"	0.200		113	80-120			
Xylene (o)	0.0998	0.00100	"	0.100		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		101	80-120			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		99.0	80-120			
Calibration Check (P3I0105-CCV3)				Prepared: 09/01/23 Analyzed: 09/03/23						
Benzene	0.0922	0.00100	mg/L	0.100		92.2	80-120			
Toluene	0.0973	0.00100	"	0.100		97.3	80-120			
Ethylbenzene	0.103	0.00100	"	0.100		103	80-120			
Xylene (p/m)	0.219	0.00200	"	0.200		110	80-120			
Xylene (o)	0.0985	0.00100	"	0.100		98.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.120		"	0.120		100	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.0	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P3I0105 - *** DEFAULT PREP ***

Matrix Spike (P3I0105-MS1)		Source: 3H25001-01		Prepared: 09/01/23		Analyzed: 09/03/23				
Benzene	0.0925	0.00100	mg/L	0.100	ND	92.5	80-120			
Toluene	0.0933	0.00100	"	0.100	ND	93.3	80-120			
Ethylbenzene	0.104	0.00100	"	0.100	ND	104	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200	ND	103	80-120			
Xylene (o)	0.0899	0.00100	"	0.100	ND	89.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.118		"	0.120		98.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.117		"	0.120		97.6	80-120			
Matrix Spike Dup (P3I0105-MSD1)		Source: 3H25001-01		Prepared: 09/01/23		Analyzed: 09/03/23				
Benzene	0.0879	0.00100	mg/L	0.100	ND	87.9	80-120	5.15	20	
Toluene	0.0899	0.00100	"	0.100	ND	89.9	80-120	3.70	20	
Ethylbenzene	0.102	0.00100	"	0.100	ND	102	80-120	1.83	20	
Xylene (p/m)	0.202	0.00200	"	0.200	ND	101	80-120	1.81	20	
Xylene (o)	0.0888	0.00100	"	0.100	ND	88.8	80-120	1.21	20	
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		96.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Notes and Definitions

S-GC Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

ROI Received on Ice

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

9/12/2023

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

3H25001

ORIGIN ID: H0BA (5/5) 392-7550

* MAIL SERVICES ETC LLC
4008 N GRIMESHOBBS, NM 88240
UNITED STATES USSHIP DATE: 24AUG23
ACTWGT: 28.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 27x15x14 IN

BILL SENDER

TO PERMIAN BASIN ENVIORMENTAL LAB

1400 RANKIN HWY

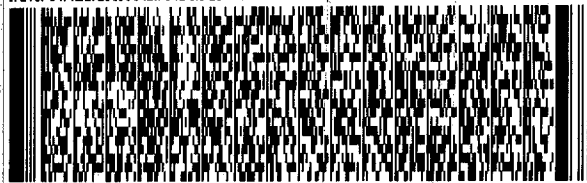
MIDLAND TX 79701

(575) 441-4835

REF:

INV:
PO:

DEPT:

FedEx
Express

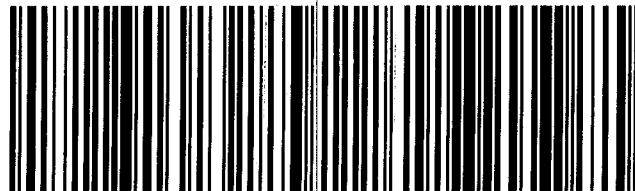
565C5/7584/05A2

TRK# 6424 9945 5577
0201FRI - 25 AUG 12:00P
PRIORITY OVERNIGHT

41 MAFA

79701
TX-US LBB

Part # 156148-434 MTW EXP 10/23



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



Analytical Report

Prepared for:

David Adkins
Talon LPE
2901 S. State Hwy 349
Midland, TX 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Location: Lovington Hwy, NM
Lab Order Number: 3I20004



Current Certification

Report Date: 10/29/23

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10A	3I20004-01	Water	09/19/23 09:26	09-19-2023 16:59
MW-21	3I20004-02	Water	09/19/23 10:44	09-19-2023 16:59
MW-11A	3I20004-03	Water	09/19/23 11:57	09-19-2023 16:59
MW-6A	3I20004-04	Water	09/19/23 13:14	09-19-2023 16:59

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-10A
3I20004-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 18:14	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 18:14	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 18:14	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 18:14	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 18:14	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.6 %		80-120		P3I2104	09/21/23 09:38	09/21/23 18:14	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	93.8 %		80-120		P3I2104	09/21/23 09:38	09/21/23 18:14	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3J2705	10/27/23 16:02	09/26/23 13:18	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3J2705	10/27/23 16:02	09/26/23 13:18	8015M	SUB-13
Methane	0.000956	0.000500	mg/L	1	P3J2705	10/27/23 16:02	09/26/23 13:18	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Total Alkalinity	130	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Bicarbonate Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Nitrate as N	1.96	0.200	mg/L	1	P3I2109	09/21/23 08:00	09/21/23 18:05	EPA 300.0	
Sulfate	67.1	10.0	mg/L	10	P3I2109	09/21/23 08:00	09/21/23 15:41	EPA 300.0	

Dissolved Metals by EPA / Standard Methods

Iron	1.15	0.200	mg/L	1	P3J2705	09/28/23 19:00	09/29/23 15:17	EPA 6020A	SUB-13
Manganese	0.0738	0.00500	mg/L	1	P3J2705	09/28/23 19:00	09/29/23 15:17	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-21
3120004-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 18:37	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 18:37	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 18:37	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 18:37	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 18:37	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.5 %		80-120		P3I2104	09/21/23 09:38	09/21/23 18:37	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.9 %		80-120		P3I2104	09/21/23 09:38	09/21/23 18:37	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3J2705	10/27/23 16:02	09/29/23 13:54	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3J2705	10/27/23 16:02	09/26/23 13:54	8015M	SUB-13
Methane	0.000704	0.000500	mg/L	1	P3J2705	10/27/23 16:02	09/26/23 13:54	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods									
Total Alkalinity	260	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Bicarbonate Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Nitrate as N	0.678	0.200	mg/L	1	P3I2109	09/21/23 08:00	09/21/23 19:07	EPA 300.0	
Sulfate	51.8	10.0	mg/L	10	P3I2109	09/21/23 08:00	09/21/23 16:43	EPA 300.0	

Dissolved Metals by EPA / Standard Methods									
Iron	ND	0.200	mg/L	1	P3J2705	09/28/23 19:00	09/29/23 16:35	EPA 6020A	SUB-13
Manganese	0.324	0.00500	mg/L	1	P3J2705	09/28/23 19:00	09/29/23 16:35	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-11A
3I20004-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 19:00	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 19:00	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 19:00	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 19:00	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 19:00	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.1 %		80-120		P3I2104	09/21/23 09:38	09/21/23 19:00	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.5 %		80-120		P3I2104	09/21/23 09:38	09/21/23 19:00	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3J2705	10/27/23 16:02	09/26/23 14:10	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3J2705	10/27/23 16:02	09/26/23 14:10	8015M	SUB-13
Methane	0.000706	0.000500	mg/L	1	P3J2705	10/27/23 16:02	09/26/23 14:10	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Total Alkalinity	230	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Bicarbonate Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Nitrate as N	1.20	0.200	mg/L	1	P3I2109	09/21/23 08:00	09/21/23 19:27	EPA 300.0	
Sulfate	68.7	10.0	mg/L	10	P3I2109	09/21/23 08:00	09/21/23 17:03	EPA 300.0	

Dissolved Metals by EPA / Standard Methods

Iron	0.270	0.200	mg/L	1	P3J2705	09/28/23 19:00	09/29/23 16:37	EPA 6020A	SUB-13
Manganese	0.00930	0.00500	mg/L	1	P3J2705	09/28/23 19:00	09/29/23 16:37	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-6A
3120004-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 19:23	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 19:23	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 19:23	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 19:23	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2104	09/21/23 09:38	09/21/23 19:23	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.6 %		80-120		P3I2104	09/21/23 09:38	09/21/23 19:23	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.0 %		80-120		P3I2104	09/21/23 09:38	09/21/23 19:23	EPA 8021B	
Ethane	ND	0.00100	mg/L	1	P3J2705	10/27/23 16:02	09/26/23 14:31	8015M	SUB-13
Ethene	ND	0.00100	mg/L	1	P3J2705	10/27/23 16:02	09/26/23 14:31	8015M	SUB-13
Methane	0.000875	0.000500	mg/L	1	P3J2705	10/27/23 16:02	09/26/23 14:31	8015M	SUB-13

General Chemistry Parameters by EPA / Standard Methods

Total Alkalinity	340	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Carbonate Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Bicarbonate Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Hydroxide Alkalinity	ND	10.0	mg/L	1	P3H3112	10/27/23 15:31	10/27/23 15:31	EPA 310.1M	
Nitrate as N	1.36	0.200	mg/L	1	P3I2109	09/21/23 08:00	09/21/23 19:48	EPA 300.0	
Sulfate	42.2	10.0	mg/L	10	P3I2109	09/21/23 08:00	09/21/23 17:24	EPA 300.0	

Dissolved Metals by EPA / Standard Methods

Iron	3.58	0.200	mg/L	1	P3J2705	09/28/23 19:00	09/29/23 16:39	EPA 6020A	SUB-13
Manganese	0.0373	0.00500	mg/L	1	P3J2705	09/28/23 19:00	09/29/23 16:39	EPA 6020A	SUB-13

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3I2104 - *** DEFAULT PREP ***

Blank (P3I2104-BLK1)				Prepared & Analyzed: 09/21/23						
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	80-120			

LCS (P3I2104-BS1)				Prepared & Analyzed: 09/21/23						
Benzene	0.0985	0.00100	mg/L	0.100		98.5	80-120			
Toluene	0.0957	0.00100	"	0.100		95.7	80-120			
Ethylbenzene	0.101	0.00100	"	0.100		101	80-120			
Xylene (p/m)	0.198	0.00200	"	0.200		99.1	80-120			
Xylene (o)	0.0869	0.00100	"	0.100		86.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.3	80-120			

LCS Dup (P3I2104-BSD1)				Prepared & Analyzed: 09/21/23						
Benzene	0.0946	0.00100	mg/L	0.100		94.6	80-120	4.13	20	
Toluene	0.0912	0.00100	"	0.100		91.2	80-120	4.87	20	
Ethylbenzene	0.0956	0.00100	"	0.100		95.6	80-120	5.12	20	
Xylene (p/m)	0.189	0.00200	"	0.200		94.5	80-120	4.80	20	
Xylene (o)	0.0829	0.00100	"	0.100		82.9	80-120	4.75	20	
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.9	80-120			

Calibration Blank (P3I2104-CCB1)				Prepared & Analyzed: 09/21/23						
Benzene	0.0900		ug/l							
Toluene	0.130		"							
Ethylbenzene	0.0700		"							
Xylene (p/m)	0.100		"							
Xylene (o)	0.120		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3I2104 - *** DEFAULT PREP ***

Calibration Blank (P3I2104-CCB2)				Prepared & Analyzed: 09/21/23						
Benzene	0.120		ug/l							
Toluene	0.130		"							
Ethylbenzene	0.0900		"							
Xylene (p/m)	0.0900		"							
Xylene (o)	0.140		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.4	80-120			

Calibration Check (P3I2104-CCV1)				Prepared & Analyzed: 09/21/23						
Benzene	0.0891	0.00100	mg/L	0.100		89.1	80-120			
Toluene	0.0947	0.00100	"	0.100		94.7	80-120			
Ethylbenzene	0.0990	0.00100	"	0.100		99.0	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.0931	0.00100	"	0.100		93.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.0	80-120			

Calibration Check (P3I2104-CCV2)				Prepared & Analyzed: 09/21/23						
Benzene	0.0881	0.00100	mg/L	0.100		88.1	80-120			
Toluene	0.0932	0.00100	"	0.100		93.2	80-120			
Ethylbenzene	0.0958	0.00100	"	0.100		95.8	80-120			
Xylene (p/m)	0.197	0.00200	"	0.200		98.6	80-120			
Xylene (o)	0.0914	0.00100	"	0.100		91.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.1	80-120			

Calibration Check (P3I2104-CCV3)				Prepared & Analyzed: 09/21/23						
Benzene	0.0878	0.00100	mg/L	0.100		87.8	80-120			
Toluene	0.0907	0.00100	"	0.100		90.7	80-120			
Ethylbenzene	0.0932	0.00100	"	0.100		93.2	80-120			
Xylene (p/m)	0.194	0.00200	"	0.200		96.8	80-120			
Xylene (o)	0.0889	0.00100	"	0.100		88.9	80-120			
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		89.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.6	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3I2104 - *** DEFAULT PREP ***

Matrix Spike (P3I2104-MS1)	Source: 3I19025-03			Prepared & Analyzed: 09/21/23						
Benzene	0.0913	0.00100	mg/L	0.100	ND	91.3	80-120			
Toluene	0.0883	0.00100	"	0.100	ND	88.3	80-120			
Ethylbenzene	0.0922	0.00100	"	0.100	ND	92.2	80-120			
Xylene (p/m)	0.183	0.00200	"	0.200	ND	91.6	80-120			
Xylene (o)	0.0799	0.00100	"	0.100	ND	79.9	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.2	80-120			

Matrix Spike Dup (P3I2104-MSD1)	Source: 3I19025-03			Prepared & Analyzed: 09/21/23						
Benzene	0.0862	0.00100	mg/L	0.100	ND	86.2	80-120	5.72	20	
Toluene	0.0806	0.00100	"	0.100	ND	80.6	80-120	9.12	20	
Ethylbenzene	0.0832	0.00100	"	0.100	ND	83.2	80-120	10.2	20	
Xylene (p/m)	0.165	0.00200	"	0.200	ND	82.4	80-120	10.6	20	
Xylene (o)	0.0713	0.00100	"	0.100	ND	71.3	80-120	11.4	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.107		"	0.120		88.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.1	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3H3112 - *** DEFAULT PREP ***

Blank (P3H3112-BLK1)	Prepared & Analyzed: 08/31/23									
----------------------	-------------------------------	--	--	--	--	--	--	--	--	--

Total Alkalinity	ND	10.0	mg/L							
Carbonate Alkalinity	ND	10.0	"							
Bicarbonate Alkalinity	ND	10.0	"							
Hydroxide Alkalinity	ND	10.0	"							

LCS (P3H3112-BS1)	Prepared & Analyzed: 10/27/23									
-------------------	-------------------------------	--	--	--	--	--	--	--	--	--

Total Alkalinity	275		mg/L	250		110	80-120			
Carbonate Alkalinity	ND	10.0	"				80-120			
Bicarbonate Alkalinity	ND	10.0	"				80-120			
Hydroxide Alkalinity	ND	10.0	"				80-120			

Duplicate (P3H3112-DUP1)	Source: 3H22008-06			Prepared & Analyzed: 08/31/23						
--------------------------	--------------------	--	--	-------------------------------	--	--	--	--	--	--

Total Alkalinity	150	10.0	mg/L		150			0.00	20	
Carbonate Alkalinity	ND	10.0	"		ND				20	
Bicarbonate Alkalinity	ND	10.0	"		ND				20	
Hydroxide Alkalinity	ND	10.0	"		ND				20	

Batch P3I2109 - *** DEFAULT PREP ***

Blank (P3I2109-BLK1)	Prepared & Analyzed: 09/21/23									
----------------------	-------------------------------	--	--	--	--	--	--	--	--	--

Sulfate	ND	1.00	mg/L							
Nitrate as N	ND	0.200	"							

LCS (P3I2109-BS1)	Prepared & Analyzed: 09/21/23									
-------------------	-------------------------------	--	--	--	--	--	--	--	--	--

Nitrate as N	10.1		mg/L	10.0		101	90-110			
Sulfate	9.63		"	10.0		96.3	90-110			

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P3I2109 - *** DEFAULT PREP ***										
LCS Dup (P3I2109-BSD1)				Prepared & Analyzed: 09/21/23						
Sulfate	9.62		mg/L	10.0		96.2	90-110	0.166	10	
Nitrate as N	10.1		"	10.0		101	90-110	0.0297	10	
Calibration Check (P3I2109-CCV1)				Prepared & Analyzed: 09/21/23						
Sulfate	9.61		mg/L	10.0		96.1	90-110			
Nitrate as N	10.1		"	10.0		101	90-110			
Calibration Check (P3I2109-CCV2)				Prepared & Analyzed: 09/21/23						
Nitrate as N	10.2		mg/L	10.0		102	90-110			
Sulfate	9.81		"	10.0		98.1	90-110			
Matrix Spike (P3I2109-MS1)				Source: 3I20004-01		Prepared & Analyzed: 09/21/23				
Sulfate	18.2		mg/L	10.0	6.71	115	80-120			
Matrix Spike (P3I2109-MS2)				Source: 3I20004-01		Prepared & Analyzed: 09/21/23				
Nitrate as N	12.5		mg/L	10.0	1.96	105	80-120			
Matrix Spike Dup (P3I2109-MSD1)				Source: 3I20004-01		Prepared & Analyzed: 09/21/23				
Sulfate	18.2		mg/L	10.0	6.71	114	80-120	0.127	20	
Matrix Spike Dup (P3I2109-MSD2)				Source: 3I20004-01		Prepared & Analyzed: 09/21/23				
Nitrate as N	12.5		mg/L	10.0	1.96	106	80-120	0.112	20	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Notes and Definitions

SUB-13 Subcontract of analyte/analysis to ALS Houston.

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

10/29/2023

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

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



Analytical Report

Prepared for:

David Adkins
Talon LPE
2901 S. State Hwy 349
Midland, TX 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Location: Lea County, NM
Lab Order Number: 3L19016



Current Certification

Report Date: 01/02/24

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-17A	3L19016-01	Water	12/18/23 10:19	12-19-2023 16:37
MW-16A	3L19016-02	Water	12/18/23 10:57	12-19-2023 16:37
MW-14A	3L19016-03	Water	12/18/23 10:50	12-19-2023 16:37
MW-18A	3L19016-04	Water	12/18/23 10:12	12-19-2023 16:37
MW-10A	3L19016-05	Water	12/19/23 10:57	12-19-2023 16:37
MW-21	3L19016-06	Water	12/19/23 12:12	12-19-2023 16:37
MW-9A	3L19016-07	Water	12/18/23 09:39	12-19-2023 16:37
MW-11A	3L19016-08	Water	12/19/23 13:20	12-19-2023 16:37

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-17A
3L19016-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	0.000730	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 20:03	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 20:03	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:03	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:03	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:03	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:03	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:03	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	81.7 %		80-120		P3L2209	12/22/23 15:25	12/23/23 20:03	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	87.6 %		80-120		P3L2209	12/22/23 15:25	12/23/23 20:03	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-16A
3L19016-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 20:26	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 20:26	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:26	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:26	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:26	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:26	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:26	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	83.2 %		80-120		P3L2209	12/22/23 15:25	12/23/23 20:26	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	88.9 %		80-120		P3L2209	12/22/23 15:25	12/23/23 20:26	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-14A
3L19016-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 20:50	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 20:50	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:50	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:50	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:50	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:50	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 20:50	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	82.3 %		80-120		P3L2209	12/22/23 15:25	12/23/23 20:50	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	88.3 %		80-120		P3L2209	12/22/23 15:25	12/23/23 20:50	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-18A
3L19016-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 21:13	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 21:13	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:13	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:13	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:13	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:13	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:13	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	82.8 %		80-120		P3L2209	12/22/23 15:25	12/23/23 21:13	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	88.9 %		80-120		P3L2209	12/22/23 15:25	12/23/23 21:13	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-10A
3L19016-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 21:36	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 21:36	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:36	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:36	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:36	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:36	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:36	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	83.6 %		80-120		P3L2209	12/22/23 15:25	12/23/23 21:36	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	89.7 %		80-120		P3L2209	12/22/23 15:25	12/23/23 21:36	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-21
3L19016-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 21:59	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 21:59	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:59	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:59	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:59	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:59	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 21:59	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	83.0 %		80-120		P3L2209	12/22/23 15:25	12/23/23 21:59	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	89.3 %		80-120		P3L2209	12/22/23 15:25	12/23/23 21:59	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-9A
3L19016-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 23:09	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 23:09	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 23:09	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 23:09	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 23:09	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 23:09	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 23:09	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	83.6 %		80-120		P3L2209	12/22/23 15:25	12/23/23 23:09	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	90.3 %		80-120		P3L2209	12/22/23 15:25	12/23/23 23:09	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-11A
3L19016-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 23:32	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/22/23 15:25	12/23/23 23:32	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 23:32	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 23:32	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 23:32	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 23:32	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2209	12/22/23 15:25	12/23/23 23:32	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	81.8 %		80-120		P3L2209	12/22/23 15:25	12/23/23 23:32	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	89.2 %		80-120		P3L2209	12/22/23 15:25	12/23/23 23:32	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P3L2209 - * DEFAULT PREP *****

Blank (P3L2209-BLK1)

Prepared: 12/22/23 Analyzed: 12/23/23

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.0993		"	0.120		82.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.6	80-120			

LCS (P3L2209-BS1)

Prepared: 12/22/23 Analyzed: 12/23/23

Benzene	0.0938	0.00100	mg/L	0.100		93.8	80-120			
Toluene	0.0859	0.00100	"	0.100		85.9	80-120			
Ethylbenzene	0.0861	0.00100	"	0.100		86.1	80-120			
Xylene (p/m)	0.167	0.00200	"	0.200		83.5	80-120			
Xylene (o)	0.0808	0.00100	"	0.100		80.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		91.0	80-120			

LCS Dup (P3L2209-BSD1)

Prepared: 12/22/23 Analyzed: 12/23/23

Benzene	0.0998	0.00100	mg/L	0.100		99.8	80-120	6.10	20	
Toluene	0.0921	0.00100	"	0.100		92.1	80-120	6.98	20	
Ethylbenzene	0.0924	0.00100	"	0.100		92.4	80-120	7.04	20	
Xylene (p/m)	0.178	0.00200	"	0.200		89.2	80-120	6.62	20	
Xylene (o)	0.0804	0.00100	"	0.100		80.4	80-120	0.496	20	
Surrogate: 4-Bromofluorobenzene	0.0999		"	0.120		83.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.6	80-120			

Calibration Blank (P3L2209-CCB1)

Prepared: 12/22/23 Analyzed: 12/23/23

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.290		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.100		"	0.120		83.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.107		"	0.120		89.3	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3L2209 - *** DEFAULT PREP ***

Calibration Blank (P3L2209-CCB2) Prepared: 12/22/23 Analyzed: 12/23/23

Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.260		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.0992		"	0.120		82.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.0	80-120			

Calibration Check (P3L2209-CCV1) Prepared: 12/22/23 Analyzed: 12/23/23

Benzene	0.0978	0.00100	mg/L	0.100		97.8	80-120			
Toluene	0.0909	0.00100	"	0.100		90.9	80-120			
Ethylbenzene	0.0859	0.00100	"	0.100		85.9	80-120			
Xylene (p/m)	0.175	0.00200	"	0.200		87.4	80-120			
Xylene (o)	0.0807	0.00100	"	0.100		80.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.0989		"	0.120		82.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.8	80-120			

Calibration Check (P3L2209-CCV2) Prepared: 12/22/23 Analyzed: 12/23/23

Benzene	0.101	0.00100	mg/L	0.100		101	80-120			
Toluene	0.0937	0.00100	"	0.100		93.7	80-120			
Ethylbenzene	0.0882	0.00100	"	0.100		88.2	80-120			
Xylene (p/m)	0.179	0.00200	"	0.200		89.5	80-120			
Xylene (o)	0.0812	0.00100	"	0.100		81.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.0996		"	0.120		83.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.4	80-120			

Calibration Check (P3L2209-CCV3) Prepared: 12/22/23 Analyzed: 12/24/23

Benzene	0.0972	0.00100	mg/L	0.100		97.2	80-120			
Toluene	0.0909	0.00100	"	0.100		90.9	80-120			
Ethylbenzene	0.0850	0.00100	"	0.100		85.0	80-120			
Xylene (p/m)	0.174	0.00200	"	0.200		86.9	80-120			
Xylene (o)	0.0805	0.00100	"	0.100		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.0978		"	0.120		81.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.6	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P3L2209 - *** DEFAULT PREP ***

Matrix Spike (P3L2209-MS1)		Source: 3L19004-15		Prepared: 12/22/23		Analyzed: 12/24/23				
Benzene	0.0988	0.00100	mg/L	0.100	ND	98.8	80-120			
Toluene	0.0884	0.00100	"	0.100	ND	88.4	80-120			
Ethylbenzene	0.0885	0.00100	"	0.100	ND	88.5	80-120			
Xylene (p/m)	0.168	0.00200	"	0.200	ND	84.1	80-120			
Xylene (o)	0.0747	0.00100	"	0.100	ND	74.7	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.0986		"	0.120		82.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.4	80-120			
Matrix Spike Dup (P3L2209-MSD1)		Source: 3L19004-15		Prepared: 12/22/23		Analyzed: 12/24/23				
Benzene	0.102	0.00100	mg/L	0.100	ND	102	80-120	3.00	20	
Toluene	0.0912	0.00100	"	0.100	ND	91.2	80-120	3.17	20	
Ethylbenzene	0.0907	0.00100	"	0.100	ND	90.7	80-120	2.46	20	
Xylene (p/m)	0.172	0.00200	"	0.200	ND	85.8	80-120	2.03	20	
Xylene (o)	0.0770	0.00100	"	0.100	ND	77.0	80-120	2.99	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.0969		"	0.120		80.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.1	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

1/2/2024

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

$$\frac{\text{CH}_3}{\text{CH}_2}$$

W: _____
Phone: 432-686-7235

Project Manager:

David Adkins

Company Name:

Talon LPE

Company Address:

408 Texas St.

City/State/Zip:

Artesia, NM 88210

Telephone No.:

575-441-4835

Fax No.:

Report Format: ☐ Standard

☐ TRRP

☐ NPDES

Sampler Signature:

Kayla Taylor

e-mail: daadkins@talonlpe.com, mgomez@talonlpe.com

PO #: 01A007 2002-10230

PO #: 01A007 2002-10230

Project Name: CS Caylor

Project Name: CS Caylor

Project #: Plains All American Pipeline

Project #: Plains All American Pipeline

Project Loc: Lea County, NM

Project Loc: Lea County, NM

PO #: 01A007 2002-10230

PO #: 01A007 2002-10230

Page 16 of 16

[illegible]

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



Analytical Report

Prepared for:

David Adkins
Talon LPE
2901 S. State Hwy 349
Midland, TX 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Location: Lea County, NM
Lab Order Number: 3I21007



Current Certification

Report Date: 09/26/23

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10A	3I21007-01	Water	09/19/23 09:26	09-21-2023 10:25
MW-21	3I21007-02	Water	09/19/23 10:44	09-21-2023 10:25
MW-11A	3I21007-03	Water	09/19/23 11:57	09-21-2023 10:25
MW-6A	3I21007-04	Water	09/19/23 13:14	09-21-2023 10:25
MW-9A	3I21007-05	Water	09/19/23 13:46	09-21-2023 10:25
MW-13A	3I21007-06	Water	09/20/23 08:37	09-21-2023 10:25
MW-18A	3I21007-07	Water	09/20/23 09:24	09-21-2023 10:25
MW-14A	3I21007-08	Water	09/20/23 09:45	09-21-2023 10:25
MW-15A	3I21007-09	Water	09/20/23 10:08	09-21-2023 10:25
MW-16A	3I21007-10	Water	09/20/23 10:32	09-21-2023 10:25
MW-17A	3I21007-11	Water	09/20/23 10:57	09-21-2023 10:25

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-10A
3I21007-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 20:01	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 20:01	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 20:01	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 20:01	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 20:01	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 20:01	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 20:01	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.3 %		80-120		P3I2206	09/22/23 13:17	09/22/23 20:01	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.8 %		80-120		P3I2206	09/22/23 13:17	09/22/23 20:01	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-21
3121007-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 20:24	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 20:24	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 20:24	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 20:24	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 20:24	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 20:24	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 20:24	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.0 %		80-120		P3I2206	09/22/23 13:17	09/22/23 20:24	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.9 %		80-120		P3I2206	09/22/23 13:17	09/22/23 20:24	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-11A
3I21007-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 21:34	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 21:34	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 21:34	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 21:34	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 21:34	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 21:34	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 21:34	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.6 %		80-120		P3I2206	09/22/23 13:17	09/22/23 21:34	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.1 %		80-120		P3I2206	09/22/23 13:17	09/22/23 21:34	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-6A
3121007-04 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	0.000800	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 21:57	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 21:57	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 21:57	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 21:57	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 21:57	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 21:57	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 21:57	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.3 %		80-120		P3I2206	09/22/23 13:17	09/22/23 21:57	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.8 %		80-120		P3I2206	09/22/23 13:17	09/22/23 21:57	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-9A
3121007-05 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 22:21	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 22:21	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 22:21	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 22:21	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 22:21	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 22:21	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 22:21	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.3 %		80-120		P3I2206	09/22/23 13:17	09/22/23 22:21	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.1 %		80-120		P3I2206	09/22/23 13:17	09/22/23 22:21	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-13A
3121007-06 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 22:44	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 22:44	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 22:44	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 22:44	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 22:44	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 22:44	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 22:44	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	91.8 %		80-120		P3I2206	09/22/23 13:17	09/22/23 22:44	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.0 %		80-120		P3I2206	09/22/23 13:17	09/22/23 22:44	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-18A
3121007-07 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 23:07	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 23:07	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:07	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:07	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:07	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:07	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:07	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.7 %		80-120		P3I2206	09/22/23 13:17	09/22/23 23:07	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.7 %		80-120		P3I2206	09/22/23 13:17	09/22/23 23:07	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-14A
3121007-08 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 23:30	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 23:30	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:30	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:30	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:30	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:30	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:30	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	90.8 %		80-120		P3I2206	09/22/23 13:17	09/22/23 23:30	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	94.9 %		80-120		P3I2206	09/22/23 13:17	09/22/23 23:30	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-15A
3121007-09 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 23:53	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/22/23 23:53	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:53	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:53	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:53	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:53	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/22/23 23:53	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.1 %		80-120		P3I2206	09/22/23 13:17	09/22/23 23:53	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.6 %		80-120		P3I2206	09/22/23 13:17	09/22/23 23:53	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-16A
3I21007-10 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/23/23 00:17	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/23/23 00:17	EPA 8021B	

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/23/23 00:17	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/23/23 00:17	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/23/23 00:17	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2206	09/22/23 13:17	09/23/23 00:17	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/23/23 00:17	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.4 %		80-120		P3I2206	09/22/23 13:17	09/23/23 00:17	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	95.4 %		80-120		P3I2206	09/22/23 13:17	09/23/23 00:17	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-17A
3I21007-11 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B									
Total BTEX	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/23/23 00:40	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	09/22/23 13:17	09/23/23 00:40	EPA 8021B	
Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/23/23 00:40	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/23/23 00:40	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/23/23 00:40	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3I2206	09/22/23 13:17	09/23/23 00:40	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3I2206	09/22/23 13:17	09/23/23 00:40	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	92.4 %		80-120		P3I2206	09/22/23 13:17	09/23/23 00:40	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	96.0 %		80-120		P3I2206	09/22/23 13:17	09/23/23 00:40	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3I2206 - *** DEFAULT PREP ***

Blank (P3I2206-BLK1)			Prepared & Analyzed: 09/22/23							
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	80-120			

LCS (P3I2206-BS1)			Prepared & Analyzed: 09/22/23							
Benzene	0.0937	0.00100	mg/L	0.100		93.7	80-120			
Toluene	0.0912	0.00100	"	0.100		91.2	80-120			
Ethylbenzene	0.0957	0.00100	"	0.100		95.7	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200		93.1	80-120			
Xylene (o)	0.0821	0.00100	"	0.100		82.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.1	80-120			

LCS Dup (P3I2206-BS1)			Prepared & Analyzed: 09/22/23							
Benzene	0.0914	0.00100	mg/L	0.100		91.4	80-120	2.47	20	
Toluene	0.0881	0.00100	"	0.100		88.1	80-120	3.54	20	
Ethylbenzene	0.0921	0.00100	"	0.100		92.1	80-120	3.83	20	
Xylene (p/m)	0.180	0.00200	"	0.200		90.2	80-120	3.18	20	
Xylene (o)	0.0807	0.00100	"	0.100		80.7	80-120	1.77	20	
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.7	80-120			

Calibration Blank (P3I2206-CCB1)			Prepared & Analyzed: 09/22/23							
Benzene	0.170		ug/l							
Toluene	0.180		"							
Ethylbenzene	0.170		"							
Xylene (p/m)	0.260		"							
Xylene (o)	0.100		"							
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.7	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3I2206 - *** DEFAULT PREP ***

Calibration Blank (P3I2206-CCB2)				Prepared & Analyzed: 09/22/23						
Benzene	0.130		ug/l							
Toluene	0.220		"							
Ethylbenzene	0.140		"							
Xylene (p/m)	0.140		"							
Xylene (o)	0.0700		"							
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		91.6	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		95.0	80-120			

Calibration Check (P3I2206-CCV1)				Prepared & Analyzed: 09/22/23						
Benzene	0.0869	0.00100	mg/L	0.100		86.9	80-120			
Toluene	0.0935	0.00100	"	0.100		93.5	80-120			
Ethylbenzene	0.0982	0.00100	"	0.100		98.2	80-120			
Xylene (p/m)	0.201	0.00200	"	0.200		100	80-120			
Xylene (o)	0.0924	0.00100	"	0.100		92.4	80-120			
Surrogate: 4-Bromofluorobenzene	0.111		"	0.120		92.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	80-120			

Calibration Check (P3I2206-CCV2)				Prepared & Analyzed: 09/22/23						
Benzene	0.0853	0.00100	mg/L	0.100		85.3	80-120			
Toluene	0.0892	0.00100	"	0.100		89.2	80-120			
Ethylbenzene	0.0911	0.00100	"	0.100		91.1	80-120			
Xylene (p/m)	0.188	0.00200	"	0.200		93.8	80-120			
Xylene (o)	0.0861	0.00100	"	0.100		86.1	80-120			
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		89.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		95.8	80-120			

Calibration Check (P3I2206-CCV3)				Prepared: 09/22/23 Analyzed: 09/23/23						
Benzene	0.0903	0.00100	mg/L	0.100		90.3	80-120			
Toluene	0.0953	0.00100	"	0.100		95.3	80-120			
Ethylbenzene	0.0993	0.00100	"	0.100		99.3	80-120			
Xylene (p/m)	0.206	0.00200	"	0.200		103	80-120			
Xylene (o)	0.0937	0.00100	"	0.100		93.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.110		"	0.120		92.0	80-120			
Surrogate: 1,4-Difluorobenzene	0.115		"	0.120		96.2	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P3I2206 - *** DEFAULT PREP ***

Matrix Spike (P3I2206-MS1)		Source: 3I21003-06		Prepared: 09/22/23		Analyzed: 09/23/23				
Benzene	0.0886	0.00100	mg/L	0.100	ND	88.6	80-120			
Toluene	0.0822	0.00100	"	0.100	ND	82.2	80-120			
Ethylbenzene	0.0837	0.00100	"	0.100	ND	83.7	80-120			
Xylene (p/m)	0.166	0.00200	"	0.200	ND	82.9	80-120			
Xylene (o)	0.0721	0.00100	"	0.100	ND	72.1	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.116		"	0.120		96.3	80-120			
Matrix Spike Dup (P3I2206-MSD1)		Source: 3I21003-06		Prepared: 09/22/23		Analyzed: 09/23/23				
Benzene	0.0906	0.00100	mg/L	0.100	ND	90.6	80-120	2.25	20	
Toluene	0.0874	0.00100	"	0.100	ND	87.4	80-120	6.12	20	
Ethylbenzene	0.0895	0.00100	"	0.100	ND	89.5	80-120	6.63	20	
Xylene (p/m)	0.177	0.00200	"	0.200	ND	88.5	80-120	6.54	20	
Xylene (o)	0.0775	0.00100	"	0.100	ND	77.5	80-120	7.21	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.108		"	0.120		90.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.114		"	0.120		94.9	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Notes and Definitions

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

9/26/2023

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

L: _____ CH: _____ W: _____
 al Lab, LP Phone: 432-686-7235

Project Manager:
David Adkins
Tolson DR

Company Name: Talon LPE

Company Address: 408 Texas St.

City/State/Zip: Artesia, NM 88210

Telephone No: 575-441-4835

Fax No:

Report Format: ☐ Standard

☐ TRRP ☐ NPDES

Sampler Signature: Matthew Schwartz, Bartlett Medley

e-mail: dackins@talon1pe.com, mgomez@talon1pe.com

(lab use only)

ORDER #: 3T21007

Analyze For:

[illegible]

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

Laboratory Comments: Sample Containers Intact

Relinquished by:	Date	Time	Received by:
Bartlett medley	9-20-23	12:06	[Signature]
Relinquished by:	Date	Time	Received by:

Date	Time
9-20-23	12:21

Labels on container(s)
Custody seals on container(s)
Custody seals on cooler(s)
Sample Hand Delivered



Relinquished by:

Date _____

Time

Received by PBEA:

Date

Time

Temperature Upon Receipt:

子

PBEL_COC_2021_1

Revision #: 2021_1

Effective Date: 8-21-21

10

122

1

Page

2 of 2



September 21, 2023

Dear Customer,

The following is the proof-of-delivery for tracking number: 642499456584

Delivery Information:			
Status:	Delivered	Delivered To:	Receptionist/Front Desk
Signed for by:	T.BLEDSE	Delivery Location:	
Service type:	FedEx Priority Overnight		
Special Handling:	Deliver Weekday; Non Standard Packaging		MIDLAND, TX,
		Delivery date:	Sep 21, 2023 10:27
Shipping Information:			
Tracking number:	642499456584	Ship Date:	Sep 20, 2023
		Weight:	45.0 LB/20.43 KG
Recipient:		Shipper:	
MIDLAND, TX, US,		Hobbs, NM, US,	

Signature image is available. In order to view image and detailed information, the shipper or payor account number of the shipment must be provided.

Thank you for choosing FedEx

ORIGIN ID: HOBBA (575) 392-7550

MAIL SERVICES ETC LLC
4008 N GRIMESHOBBS, NM 88240
UNITED STATES USSHIP DATE: 20SEP23
ACTWGT: 45.00 LB MAN
CAD: 0103352/CAFE3313
DIMS: 26x15x14 IN

BILL SENDER

TO PERMAN BASIN ENVIORMENTAL LAB
PERMAN BASIN ENVIORMENTAL LAB
1400 RANKIN HWY

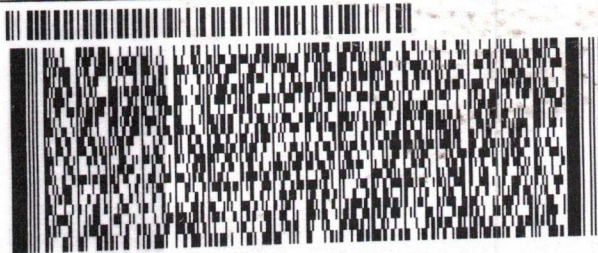
MIDLAND TX 79701

(575) 441-4835

REF:

INV:
PO:

DEPT:

FedEx
Express

J191218423001W

THU - 21 SEP 12:00P
PRIORITY OVERNIGHTTRK#
0201

6424 9945 6584

41 MAFA

79701
TX-US LBB1. Fold the printed page along the horizontal line.
2. Place label in shipping pouch and affix it to your shipment.

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



Analytical Report

Prepared for:

David Adkins
Talon LPE
2901 S. State Hwy 349
Midland, TX 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Location: Lea County, NM
Lab Order Number: 3L21002



Current Certification

Report Date: 01/02/24

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-15A	3L21002-01	Water	12/20/23 08:37	12-20-2023 15:53
MW-13A	3L21002-02	Water	12/20/23 09:33	12-20-2023 15:53
MW-6A	3L21002-03	Water	12/20/23 12:29	12-20-2023 15:53

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-15A
3L21002-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 07:22	EPA 8021B
Toluene	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 07:22	EPA 8021B
Ethylbenzene	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 07:22	EPA 8021B
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 07:22	EPA 8021B
Xylene (o)	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 07:22	EPA 8021B
Surrogate: 4-Bromofluorobenzene	88.5 %		80-120		P3L2606	12/26/23 14:50	12/27/23 07:22	EPA 8021B
Surrogate: 1,4-Difluorobenzene	92.0 %		80-120		P3L2606	12/26/23 14:50	12/27/23 07:22	EPA 8021B
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/26/23 14:50	12/27/23 07:22	EPA 8021B
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/26/23 14:50	12/27/23 07:22	EPA 8021B

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-13A
3L21002-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 07:45	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 07:45	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 07:45	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 07:45	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 07:45	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	88.2 %		80-120		P3L2606	12/26/23 14:50	12/27/23 07:45	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	91.6 %		80-120		P3L2606	12/26/23 14:50	12/27/23 07:45	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/26/23 14:50	12/27/23 07:45	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/26/23 14:50	12/27/23 07:45	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

MW-6A
3L21002-03 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

Organics by GC									
Benzene	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 08:08	EPA 8021B	
Toluene	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 08:08	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 08:08	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 08:08	EPA 8021B	
Xylene (o)	ND	0.00100	mg/L	1	P3L2606	12/26/23 14:50	12/27/23 08:08	EPA 8021B	
Surrogate: 4-Bromofluorobenzene	87.6 %		80-120		P3L2606	12/26/23 14:50	12/27/23 08:08	EPA 8021B	
Surrogate: 1,4-Difluorobenzene	91.2 %		80-120		P3L2606	12/26/23 14:50	12/27/23 08:08	EPA 8021B	
Total BTEX	ND	0.00100	mg/L	1	[CALC]	12/26/23 14:50	12/27/23 08:08	EPA 8021B	
Xylenes (total)	ND	0.00100	mg/L	1	[CALC]	12/26/23 14:50	12/27/23 08:08	EPA 8021B	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P3L2606 - * DEFAULT PREP *****

Blank (P3L2606-BLK1)

Prepared: 12/26/23 Analyzed: 12/27/23

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.6	80-120			

LCS (P3L2606-BS1)

Prepared: 12/26/23 Analyzed: 12/27/23

Benzene	0.107	0.00100	mg/L	0.100		107	80-120			
Toluene	0.0944	0.00100	"	0.100		94.4	80-120			
Ethylbenzene	0.0936	0.00100	"	0.100		93.6	80-120			
Xylene (p/m)	0.186	0.00200	"	0.200		92.8	80-120			
Xylene (o)	0.0817	0.00100	"	0.100		81.7	80-120			
Surrogate: 4-Bromofluorobenzene	0.0994		"	0.120		82.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		90.2	80-120			

LCS Dup (P3L2606-BSD1)

Prepared: 12/26/23 Analyzed: 12/27/23

Benzene	0.103	0.00100	mg/L	0.100		103	80-120	4.02	20	
Toluene	0.0911	0.00100	"	0.100		91.1	80-120	3.60	20	
Ethylbenzene	0.0904	0.00100	"	0.100		90.4	80-120	3.53	20	
Xylene (p/m)	0.180	0.00200	"	0.200		89.9	80-120	3.22	20	
Xylene (o)	0.0821	0.00100	"	0.100		82.1	80-120	0.525	20	
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.9	80-120			

Calibration Blank (P3L2606-CCB1)

Prepared: 12/26/23 Analyzed: 12/27/23

Benzene	0.0700		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.120		"							
Xylene (p/m)	0.290		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		86.1	80-120			
Surrogate: 1,4-Difluorobenzene	0.106		"	0.120		88.4	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P3L2606 - *** DEFAULT PREP ***

Calibration Blank (P3L2606-CCB2)			Prepared: 12/26/23 Analyzed: 12/27/23							
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.150		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.104		"	0.120		86.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.109		"	0.120		90.9	80-120			
Calibration Blank (P3L2606-CCB3)			Prepared: 12/26/23 Analyzed: 12/27/23							
Benzene	0.00		ug/l							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.180		"							
Xylene (o)	0.00		"							
Surrogate: 4-Bromofluorobenzene	0.105		"	0.120		87.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.3	80-120			
Calibration Check (P3L2606-CCV1)			Prepared & Analyzed: 12/26/23							
Benzene	0.113	0.00100	mg/L	0.100		113	80-120			
Toluene	0.0985	0.00100	"	0.100		98.5	80-120			
Ethylbenzene	0.0921	0.00100	"	0.100		92.1	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		95.2	80-120			
Xylene (o)	0.0858	0.00100	"	0.100		85.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.0990		"	0.120		82.5	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	80-120			
Calibration Check (P3L2606-CCV2)			Prepared: 12/26/23 Analyzed: 12/27/23							
Benzene	0.109	0.00100	mg/L	0.100		109	80-120			
Toluene	0.0968	0.00100	"	0.100		96.8	80-120			
Ethylbenzene	0.0908	0.00100	"	0.100		90.8	80-120			
Xylene (p/m)	0.190	0.00200	"	0.200		95.0	80-120			
Xylene (o)	0.0852	0.00100	"	0.100		85.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.103		"	0.120		85.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.112		"	0.120		93.2	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE	Project: CS CAYLOR
2901 S. State Hwy 349	Project Number: SRS#2002-10250
Midland TX, 79706	Project Manager: David Adkins

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch P3L2606 - *** DEFAULT PREP ***

Calibration Check (P3L2606-CCV3)				Prepared: 12/26/23 Analyzed: 12/27/23						
Benzene	0.107	0.00100	mg/L	0.100		107	80-120			
Toluene	0.0951	0.00100	"	0.100		95.1	80-120			
Ethylbenzene	0.0891	0.00100	"	0.100		89.1	80-120			
Xylene (p/m)	0.184	0.00200	"	0.200		91.9	80-120			
Xylene (o)	0.0825	0.00100	"	0.100		82.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.101		"	0.120		84.4	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		92.0	80-120			

Matrix Spike (P3L2606-MS1)				Source: 3L20007-05		Prepared: 12/26/23 Analyzed: 12/27/23				
Benzene	0.0976	0.00100	mg/L	0.100	ND	97.6	80-120			
Toluene	0.0860	0.00100	"	0.100	ND	86.0	80-120			
Ethylbenzene	0.0847	0.00100	"	0.100	ND	84.7	80-120			
Xylene (p/m)	0.167	0.00200	"	0.200	ND	83.3	80-120			
Xylene (o)	0.0728	0.00100	"	0.100	ND	72.8	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.7	80-120			
Surrogate: 1,4-Difluorobenzene	0.110		"	0.120		91.6	80-120			

Matrix Spike Dup (P3L2606-MSD1)				Source: 3L20007-05		Prepared: 12/26/23 Analyzed: 12/27/23				
Benzene	0.0920	0.00100	mg/L	0.100	ND	92.0	80-120	5.90	20	
Toluene	0.0801	0.00100	"	0.100	ND	80.1	80-120	7.09	20	
Ethylbenzene	0.0795	0.00100	"	0.100	ND	79.5	80-120	6.32	20	QM-05
Xylene (p/m)	0.157	0.00200	"	0.200	ND	78.3	80-120	6.21	20	QM-05
Xylene (o)	0.0678	0.00100	"	0.100	ND	67.8	80-120	7.13	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.102		"	0.120		84.9	80-120			
Surrogate: 1,4-Difluorobenzene	0.111		"	0.120		92.4	80-120			

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Notes and Definitions

ROI Received on Ice

QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

pH1 The Regulatory Holding time for pH is 15 minutes, Analysis should be done in the field.

NPBEL C Chain of Custody was not generated at PBELAB

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:



Date:

1/2/2024

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

Talon LPE
2901 S. State Hwy 349
Midland TX, 79706

Project: CS CAYLOR
Project Number: SRS#2002-10250
Project Manager: David Adkins

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235



CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin HWY
Midland, Texas 79701

$$\text{CH}_3\text{---}$$

W: _____
Phone: 432-686-7235

Project Manager: David Auklitis

Company Name: 12101 LPE

Company Address: 400 Lexads Cl.

City/State/Zip: Allesia, NM 80210

Telephone No: 010-771-4000

Fax No:

Sampler Signature: 

e-mail: dadkins@talon1pe.com, mgomez@talon1pe.com

Report Format: ☐ Standard

☐ TRRP☐ NPDES

PO #: 010072002-10230

PO #: 010072002-10230

Project Name: CS Caylor

Project #: Plains All American Pipeline

Project Loc: Lea County, NM

PO #: 010072002-10230

Page 11 of 11

[illegible]

Email Analyticals to: CJBryant@paalp.com, Maochoa@paalp.com, and KHJugens@paalp.com

Laboratory Comments:
Sample Containers Intact
VOCs Free of Headspace
Labels on container(s)

Y Y Y
Z Z Z

Custody seals on container(s)
Custody seals on cooler(s)
Sample Hand Delivered

$\angle$ $\angle$ $\angle$
 $\angle$ $\angle$ $\angle$

by Sampler/Client Rep. ?
by Courier? UPS DHL

Y
N
N

Temperature Upon Receipt:	
Received:	50 °C Th
Adjusted:	50 °C Ha

Chlor



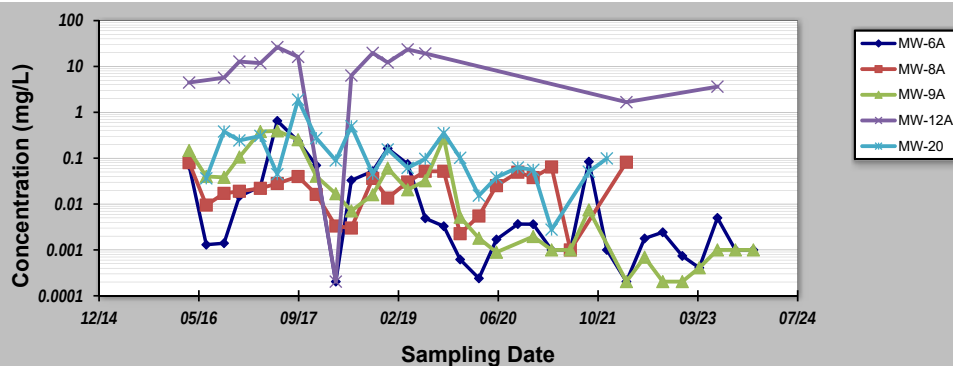
APPENDIX D

Mann-Kendall Analysis

GSi MANN-KENDALL TOOLKIT for Constituent Trend Analysis

Evaluation Date: **27-Feb-23** Job ID: **700376.049**
Facility Name: **CS Calyor** Constituent: **Benzene**
Conducted By: **Paul Santos** Concentration Units: **mg/L**

Sampling Point ID:		MW-6A	MW-8A	MW-9A	MW-12A	MW-20		
Sampling Event	Sampling Date	BENZENE CONCENTRATION (mg/L)						
1	22-Mar-16	0.0693	0.0799	0.147	4.46			
2	16-Jun-16	0.0013	0.00950	0.0400		0.0364		
3	13-Sep-16	0.0014	0.0171	0.0382	5.7	0.382		
4	29-Nov-16	0.0148	0.0190	0.106	12.8	0.244		
5	14-Mar-17	0.0241	0.0220	0.381	11.8	0.306		
6	7-Jun-17	0.652	0.0281	0.394	26.4	0.0449		
7	19-Sep-17	0.235	0.0398	0.253	16.2	1.89		
8	19-Dec-17	0.0699	0.0162	0.0404	5.34	0.275		
9	27-Mar-18	0.000204	0.00332	0.0168	0.000204	0.0896		
10	13-Jun-18	0.0329	0.00300	0.0071	6.35	0.496		
11	28-Sep-18	0.0522	0.0363	0.016	19.7	0.0455		
12	12-Dec-18	0.163	0.0135	0.0607	12.2	0.155		
13	22-Mar-19	0.0748	0.0303	0.0205	23.5	0.0614		
14	18-Jun-19	0.0049	0.0519	0.0322	19.2	0.0968		
15	19-Sep-19	0.00329	0.0519	0.276		0.353		
16	10-Dec-19	0.00062	0.00226	0.00517		0.102		
17	13-Mar-20	0.00024	0.00550	0.0018		0.0153		
18	9-Jun-20	0.00169	0.0252	0.00089		0.0382		
19	24-Sep-20	0.00367	0.0495			0.0627		
20	10-Dec-20	0.00364	0.0378	0.00196		0.0556		
21	12-Mar-21	0.001	0.0643	0.00100		0.00277		
22	14-Jun-21	0.001	0.00100	0.00100				
23	15-Sep-21	0.08408	0.488*1	0.00747		0.0506		
24	14-Dec-21	0.001				0.0991		
25	22-Mar-22	0.000204	0.0817	0.000204	1.67			
26	21-Jun-22	0.00178		0.000694				
27	20-Sep-22	0.00243		0.000204				
28	27-Dec-22	0.00074		0.000204				
29	22-Mar-23	0.000408		0.000408				
30	21-Jun-23	0.005		0.001	3.63			
31	19-Sep-23	0.00100		0.00100				
32	18-Dec-23	0.00100		0.00100				
33								
34								
35								
Coefficient of Variation:		2.59	0.80	1.83	0.72	1.78		
Mann-Kendall Statistic (S):		-159	34	-270	5	-65		
Confidence Factor:		99.5%	80.6%	>99.9%	58.5%	96.5%		
Concentration Trend:		Decreasing	No Trend	Decreasing	No Trend	Decreasing		

**Notes:**

- At least four independent sampling events per well are required for calculating the trend. Methodology is valid for 4 to 40 samples.
- Confidence in Trend = Confidence (in percent) that constituent concentration is increasing (S>0) or decreasing (S<0): >95% = Increasing or Decreasing; ≥ 90% = Probably Increasing or Probably Decreasing; < 90% and S>0 = No Trend; < 90%, S≤0, and COV ≥ 1 = No Trend; < 90% and COV < 1 = Stable.
- Methodology based on "MAROS: A Decision Support System for Optimizing Monitoring Plans", J.J. Aziz, M. Ling, H.S. Rifai, C.J. Newell, and J.R. Gonzales, Ground Water, 41(3):355-367, 2003.

DISCLAIMER: The GSi Mann-Kendall Toolkit is available "as is". Considerable care has been exercised in preparing this software product; however, no party, including without limitation GSi Environmental Inc., makes any representation or warranty regarding the accuracy, correctness, or completeness of the information contained herein, and no such party shall be liable for any direct, indirect, consequential, incidental or other damages resulting from the use of this product or the information contained herein. Information in this publication is subject to change without notice. GSi Environmental Inc., disclaims any responsibility or obligation to update the information contained herein.

GSi Environmental Inc., www.gsi-net.com

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

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

CONDITIONS

Action 350637

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID:
	34053
	Action Number:
	350637
Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2023 Annual Groundwater Monitoring Report for C.S. Caylor: content satisfactory 1. Conduct quarterly groundwater monitoring as prescribed for PAH and BTEX. 2. Continue the O&M for the groundwater recovery system. 3. Install additional monitoring wells as replacements for declining groundwater levels 4. Install replacement for MW-20 after P&A of that well. Please upload permit obtained from OSE. 5. Submit the 2024 annual report to OCD by April 1, 2025.	8/13/2024