Review of 2021 ANNUAL GROUNDWATER MONITORING REPORT: **Content satisfactory**

Contractor recommendations approved and are as follows;
1. Continue quarterly groundwater monitoring events in accordance with NMOCD directives
2. Continue operation and maintenance of the groundwater recovery system
3. Submit annual report to NMOCD no later than March 31,2023.

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2021 ANNUAL GROUNDWATER MONITORING REPORT

C.S. CAYLOR
LEA COUNTY, NEW MEXICO
SRS #2002—10250
NMOCD REF. # AP-052, nAPP2109527803

PREPARED FOR:
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MARCH 7, 2022

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TALON/LPE PROJECT NO. 700376.049.04

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MARCH 7, 2022

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NMOCD - New Mexico Oil Conservation Division

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APPENDICES

1.0 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Background

The C.S. Caylor Site (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 Marketing, L.P. (Plains) purchased the assets of Link Energy on April 1, 2004. Initial reports estimated that 70 barrels (bbls) of crude oil were released. 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. Based on available information, no crude oil was initially recovered at the release site.

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 (Talon) was retained by Plains to assume remediation activities at the site. Remediation activities at the site were previously conducted by Environmental Plus, Inc. (EPI).

1.2 Site Geology

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

1.3 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 2,420.72 bbls of crude oil have been recovered from the site as of December, 31, 2020. Approximately 83.01 bbls of crude were recovered in 2020 from the groundwater recovery system and MDPE events.

During 2021, the groundwater recovery system extracted approximately 36.10 bbls of PSH and 7,260 bbls of groundwater. MDPE recovery events were discontinued at this site. A cumulative total of 2,456.82 bbls of PSH have been recovered to date.

1.4 Regulatory Framework

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

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

2.0 SITE ACTIVITIES

The sections that follow summarize groundwater monitoring and PSH recovery activities conducted at the subject site during the year 2021. The primary function of groundwater monitoring activities is to collect depth to fluid measurements and to collect groundwater samples from monitor wells for laboratory analysis. The objective of groundwater monitoring is to evaluate the status of the dissolved-phase and PSH plumes in order to verify the effectiveness of the remediation system as to inhibiting plume migration, reducing the volume of PSH impacting the groundwater, and determining if modifications to the remediation system would improve its performance and efficiency.

A synopsis of analytical results for the four (4) groundwater monitoring events is located in Table 2 in Appendix B, and annotated in map form on Figures 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C.

2.1 Groundwater Monitoring Activities

Talon conducted four (4) groundwater monitoring events at the site during the year 2021. The events occurred on March 10 and 12, June 11 and 14, September 14, 15, 29 and 30, and December 13-14, 2021.

During the March 2021 groundwater monitoring event, all recovery/monitor wells were gauged. Thirteen (13) monitor wells (MW-6A, MW-8A through MW-11A, MW-13A- through MW-18A, MW-20, and MW-21) were purged and sampled. Seven (7) monitor wells (MW-2A through MW-5A, MW-7A, MW-12A, and MW-19) were not sampled due to the presence of PSH. MW-1A was dry, and therefore not sampled.

During the June 2021 groundwater monitoring event, all recovery/monitor wells were gauged with the exception of MW-4A, which could not be gauged due to a stuck pump. Twelve (12) monitor wells (MW-6A, MW-8A through MW-11A, MW-13A through MW-18A, and MW-21) were purged and sampled. Six (6) monitor wells (MW-2A, MW-3A, MW-5A, MW-7A, MW-12A, and MW-19) were not sampled due to the presence of PSH. MW-1A was dry, and therefore not sampled. MW-4A was obstructed, and therefore not sampled.

During the September 2021 groundwater monitoring event, all recovery/monitor wells were gauged. Thirteen (13) monitor wells (MW-6A, MW-8A, MW-9A, MW-10A, MW-11A, MW-13A, through MW-18A, MW-20 and MW-21) were purged and sampled. Seven (7) monitor wells (MW-2A through MW-5A, MW-7A, MW-12A, and MW-19) were not sampled due to the presence of PSH. MW-1A was dry, and therefore not sampled.

During the December 2021 groundwater monitoring event, all recovery/monitor wells were gauged. Eleven (11) monitor wells (MW-6A, MW-10A, MW-11A, MW-13A through MW-18A, MW-20, and MW-21) were purged and sampled. Four (4) monitor wells (MW-4A, MW-5A, MW-12A, and MW-19) were not sampled due to the presence of PSH. Four (4) monitor wells (MW-1A through MW-3A and MW-7A) were dry; therefore, these wells were

not purged or sampled. One (1) monitor well (MW-9A) was purged dry without recovery; therefore, the well was not sampled. One (1) monitor well (MW-8A) had insufficient water; therefore, the well was not purged or sampled. During this event, additional samples were collected from three (3) monitor wells (MW-6A, MW-10A and MW-11A) and analyzed for Monitored Natural Attenuation (MNA) parameters.

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, Appendix B – Summary of Historical Fluid Level Measurements.

Subsequent to gauging, all monitor wells that were not impacted with 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, and subsequently transferred to the Apollo saltwater disposal (SWD) system.

Groundwater samples were collected from all monitor wells not impacted with 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 personnel, until they were delivered to Xenco Laboratories, Inc. Laboratory in Carlsbad, New Mexico for testing. The groundwater samples collected during the all four (4) events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B.

The monitor wells sampled for MNA parameters were sampled 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 until delivery to Eurofins Xenco Laboratories, Inc. in Carlsbad, New Mexico for analysis of nitrate, sulfate, ferrous iron, manganese, alkalinity, and methane.

2.3 Phase Separated Hydrocarbon Recovery

PSH recovery methods have been employed at the site since 2002, initially 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 consists 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.

Currently there are four (4) total fluid pumps operating in monitoring wells MW-4A, MW-5A, MW-12A, and MW-19. The PSH and recovered groundwater is 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 transfer pump then drives the fluids to the Apollo SWD system for disposal.

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

- 1st Quarter – 9.98 bbls crude oil and 1,074 bbls of groundwater
- 2nd Quarter – 11.27 bbls crude oil and 866 bbls of groundwater
- 3rd Quarter – 9.09 bbls crude oil and 2,397 bbls of groundwater
- 4th Quarter – 5.76 bbls of crude oil and 2,923 bbls of groundwater

No mobile dual-phase extraction (MDPE) events, in which liquid and vapor PSH are recovered, were conducted on site in 2021.

A total of approximately 36.10 bbls of crude oil were recovered in 2021 and an estimated 2,456.82 bbls of PSH have been recovered at the subject site to date.

3.0 GROUNDWATER MONITORING RESULTS

The results of the laboratory analyses are summarized in Table 2 – Summary of Groundwater Analytical Data in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C. The following sections summarize the results of the four (4) groundwater monitoring events at the site.

3.1 Physical Characteristics of the First Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, including the site, is referred to as the Ogallala Aquifer or the 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 (0) to 1.6 inches per year.

The Ogallala Aquifer is generally unconfined, and the potentiometric surface mimics the topography with the regional flow direction from the northwest to the southeast. The mean regional gradient is 15 feet per mile, and the typical groundwater velocity averages seven (7) inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot and specific yield averages 16%. The depth to groundwater at the site has historically ranged from 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

Depth to fluid measurements were collected during each of the four (4) groundwater monitoring events. The results of the fluid level measurements are summarized in Table 1, Appendix B - Summary of Historical Fluid Level Measurements.

The collected data was used to construct potentiometric surface maps in order to interpret the groundwater gradient and flow direction. The maps, designated Figures 2a through 2d, are presented in Appendix A.

The potentiometric surface maps constructed for each of the four (4) groundwater monitoring events indicate that the groundwater flow direction is to southeast at an average gradient of 0.0051 feet/foot. Groundwater elevations at the subject site have decreased an average of 1.32 feet for the year 2021.

3.3 Phase Separated Hydrocarbon

An oil/water interface probe was used to determine the thickness of PSH during the four (4) groundwater monitoring events. The following summarizes the status of the PSH thicknesses observed during the four (4) groundwater monitoring events conducted in 2021.

- During the March 2021 event, PSH was observed in seven (7) monitor wells: MW-2A through MW-5A, MW-7A, MW-12A, and MW-19. PSH thickness ranged from 0.60 feet to 6.61 feet.
- During the June 2021 event, PSH was observed in six (6) monitor wells: MW-2A, MW-3A, MW-5A, MW-7A, MW-12A, and MW-19. PSH thickness ranged from 0.06 feet to 6.18 feet.
- During the September 2021 event, PSH was observed in seven (7) monitor wells: MW-2A through MW-5A, MW-7A, MW-12A, and MW-19. PSH thickness ranged from 0.01 feet to 11.02 feet.
- During the December 2021 event, PSH was observed in four (4) monitor wells: MW-4A, MW-5A, MW-12A, and MW-19. PSH thickness ranged from 0.01 feet to 6.66 feet.

3.4 Groundwater Analytical Results

During the March 2021 event, groundwater samples were collected from thirteen (13) monitor wells: MW-6A, MW-8A through MW-11A, MW-13A through MW-18A, MW-20, and MW-21. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than the laboratory method detection limit (MDL) in monitor wells MW-6A, MW-9A through MW-11A, MW-13A through MW-16A, MW-18A, and MW-21 to 0.0943 mg/L in MW-8A. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-8A.
- Toluene concentrations were less than the laboratory MDL for all monitor wells except MW-8A, which had a concentration of 0.0341 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Ethylbenzene concentrations were less than the laboratory MDL in all monitor wells

except MW-8A, which had a concentration of 0.00133 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.

- Xylene concentrations ranged from less than the laboratory MDL for all monitor wells except MW-8A, which had a concentration of 0.0603 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells sampled during the quarter.

During the June 2021 event, groundwater samples were collected from twelve (12) monitor wells: MW-6A, MW-8A through MW-11A, MW-13A through MW-18A, and MW-21. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than the laboratory MDL in monitor wells MW-6A, MW-8A, MW-9A, MW-11A, MW-13A through MW-16A, MW-18A, and MW-21 to 0.0136 mg/L in MW-10A. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-10A.
- Toluene concentrations ranged from less than the laboratory MDL in monitor wells MW-6A, MW-8A, MW-9A, MW-11A, and MW-13A through MW-17A to 0.000542 mg/L in MW-10A. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Ethylbenzene concentrations were less than the laboratory MDL in all monitor wells,except MW-21, which had a concentration of 0.000906 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Xylene concentrations ranged from less than the laboratory MDL in monitor wells MW-6A. MW-8A through MW-11A, and MW-13A through MW-17A to 0.00211 mg/L in MW-21. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells sampled during the quarter.

During the September 2021 event, groundwater samples were collected from thirteen (13) monitor wells (MW-6A, MW-8A through MW-11A, MW-13A through MW-18A, MW-20, and MW-21) were purged and sampled. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than the laboratory MDL in monitor wells MW-13A through MW-18A to 0.488 mg/L in MW-8A. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor wells MW-8A and MW-20.
- Toluene concentrations ranged from less than the laboratory MDL in monitor wells MW-6A, MW-13A through MW-18A, MW-20, and MW-21 to 0.202 mg/L in MW-8A. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Ethylbenzene concentrations ranged from less than the laboratory MDL in monitor

wells MW-6A, MW-9A, MW-10A, MW-13A through MW-18A, MW-20, and MW-21 to 0.00982 mg/L in MW-8A. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.

- Xylene concentrations ranged from less than the laboratory MDL in monitor wells MW-11A, MW-13A through MW-18A, MW-20, and MW-21 to 0.198 mg/L in MW-8A. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells sampled during the quarter.

During the December 2021 event, groundwater samples were collected from eleven (11) monitor wells: MW-6A, MW-10A, MW-11A, MW-13A through MW-18A, MW-20, and MW-21. Laboratory analytical results of the groundwater samples indicate the following findings:

- Benzene concentrations were less than the laboratory MDL in all wells except MW-20, which had a concentration 0.0991 mg/L. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in groundwater samples collected from monitor well MW-20.
- Toluene concentrations were less than the laboratory MDL in all wells except MW-20, which had a concentration of 0.00104 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Ethylbenzene concentrations were less than the laboratory MDL in monitor wells. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled during the quarter.
- Xylene concentrations were less than the laboratory MDL in all wells except MW-20, which had a concentration of 0.000979 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells sampled during the quarter.
- Methane concentrations ranged between <5.00 ug/L in MW-6A and MW-11A to 0.796 ug/L in MW-10A.
- Ferrous Iron was reported at <0.0500 mg/L in all three samples.
- Manganese concentrations ranged from 0.00665 mg/L in MW-10A to 0.0168 mg/L in MW-11A.
- Alkalinity concentrations ranged from 243 mg/L in MW-11A to 375 mg/L in MW-10A.
- Sulfate concentrations ranged from 52.2 mg/L in MW-10A to 89.5 mg/L in MW-11A.
- Nitrate as N concentrations ranged from 0.979 mg/L in MW-10A to 1.93 mg/L in MW-6A.

The laboratory analytical results are summarized in Tables 2, 3 and 4, Summary of Historical Groundwater Analytical Results in Appendix B. Laboratory analytical data reports and chains of custody documentation are provided in Appendix C.

4.0 CONCLUSIONS AND RECOMMENDATIONS

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

4.1 Summary of Findings

- The groundwater flow direction is to the southeast at an average gradient of 0.0051 feet/foot.
- Generally, PSH thickness fluctuated to some degree in all impacted monitor wells. PSH thickness has decreased in MW-4A from 4.08' to 1.60', and in MW-12A from 2.43' to 0.01'.
- The PSH recovery system removed a cumulative total of 36.10 bbls of crude oil from the site during 2021.
- The benzene concentrations in MW-20 exceeded the NMWQCC groundwater standard of 0.0100 mg/L during the September and December sampling events. In addition, monitor well MW-8A exceeded the benzene NMWQCC groundwater standard of 0.0100 mg/L during the March and September events, and monitor MW-10A exceeded the benzene NMWQCC groundwater standard of 0.0100 mg/L during the June sampling event. It is noted that MW-8A and MW-20 are upgradient wells.
- NMOCD has approved the removal of MW-20 from all future sampling events. Further, MW-20 has been granted approval for the plug and abandonment as it is located in a former drilling pit.
- NMOCD approval was also granted to terminate PAH sampling activities from MW-9A, MW-15A, MW-16A and MW-18A.

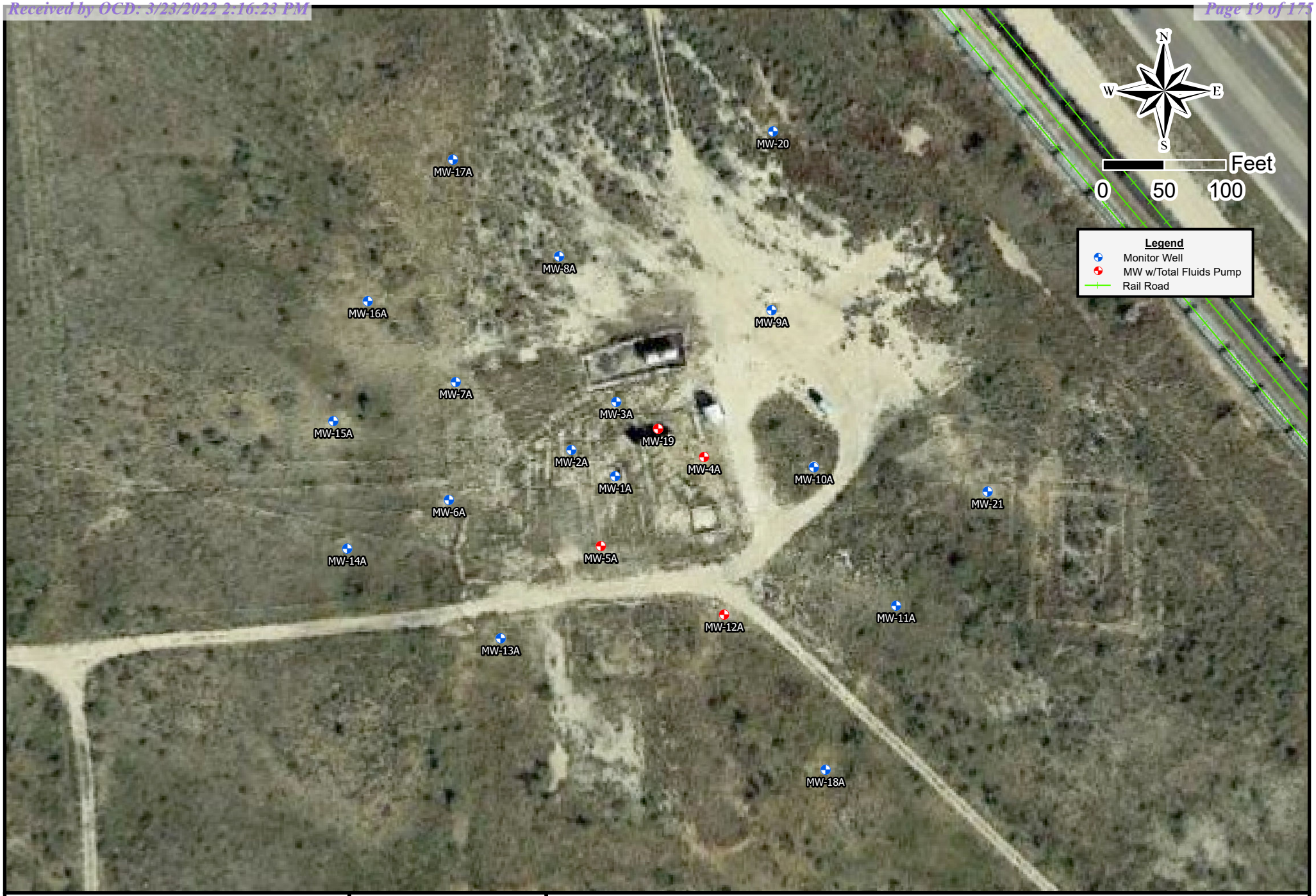
4.2 Recommendations

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

- Continue quarterly groundwater monitoring events in accordance with NMOCD directives.
- Continue operation and maintenance of the groundwater recovery system.

APPENDIX A

Figures



TALON LPE

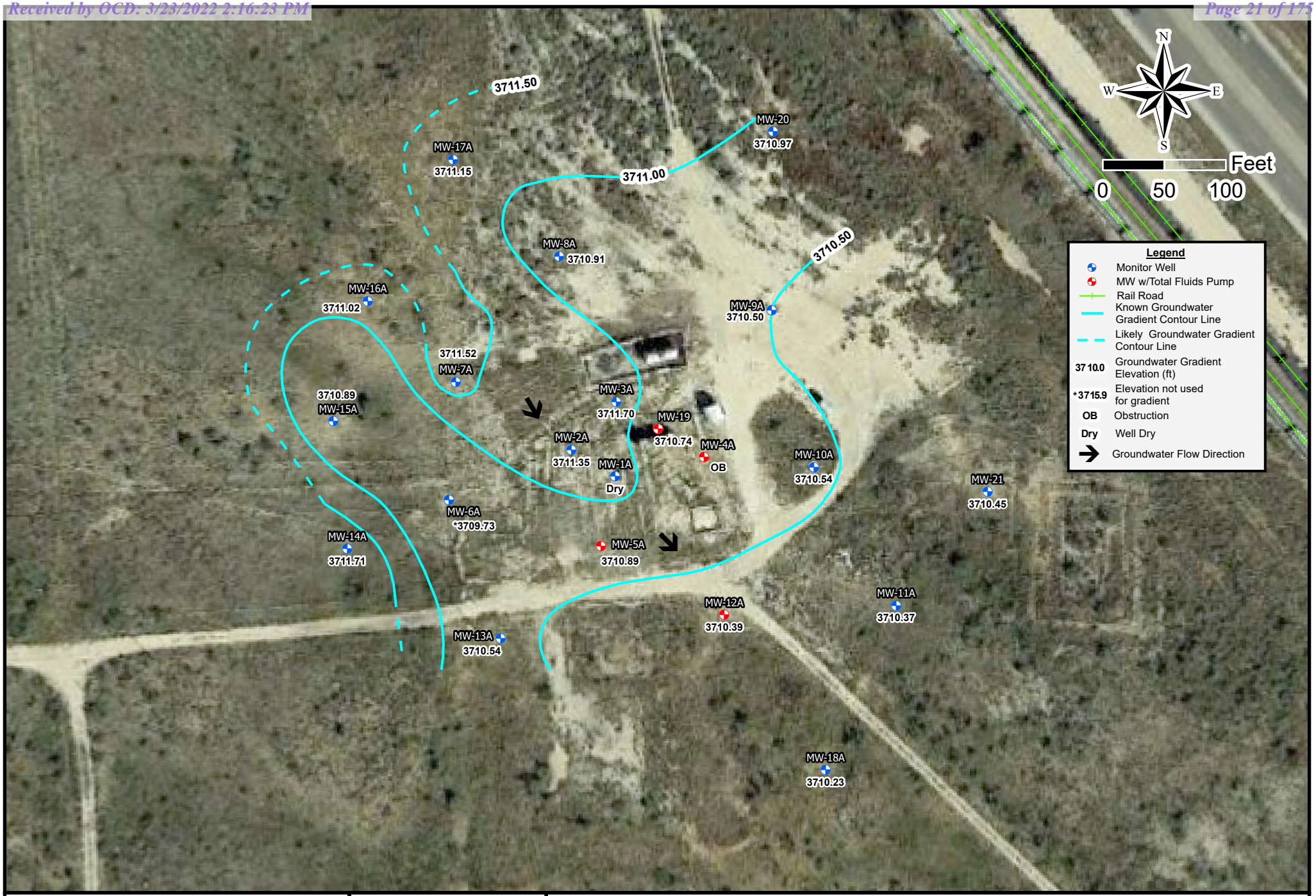
Date: 6/3/2021
1 in = 100 ft
Drafted By: JAI

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

TALON LPE

Date: 6/3/2021
1 in = 100 ft
Drafted By: JAI

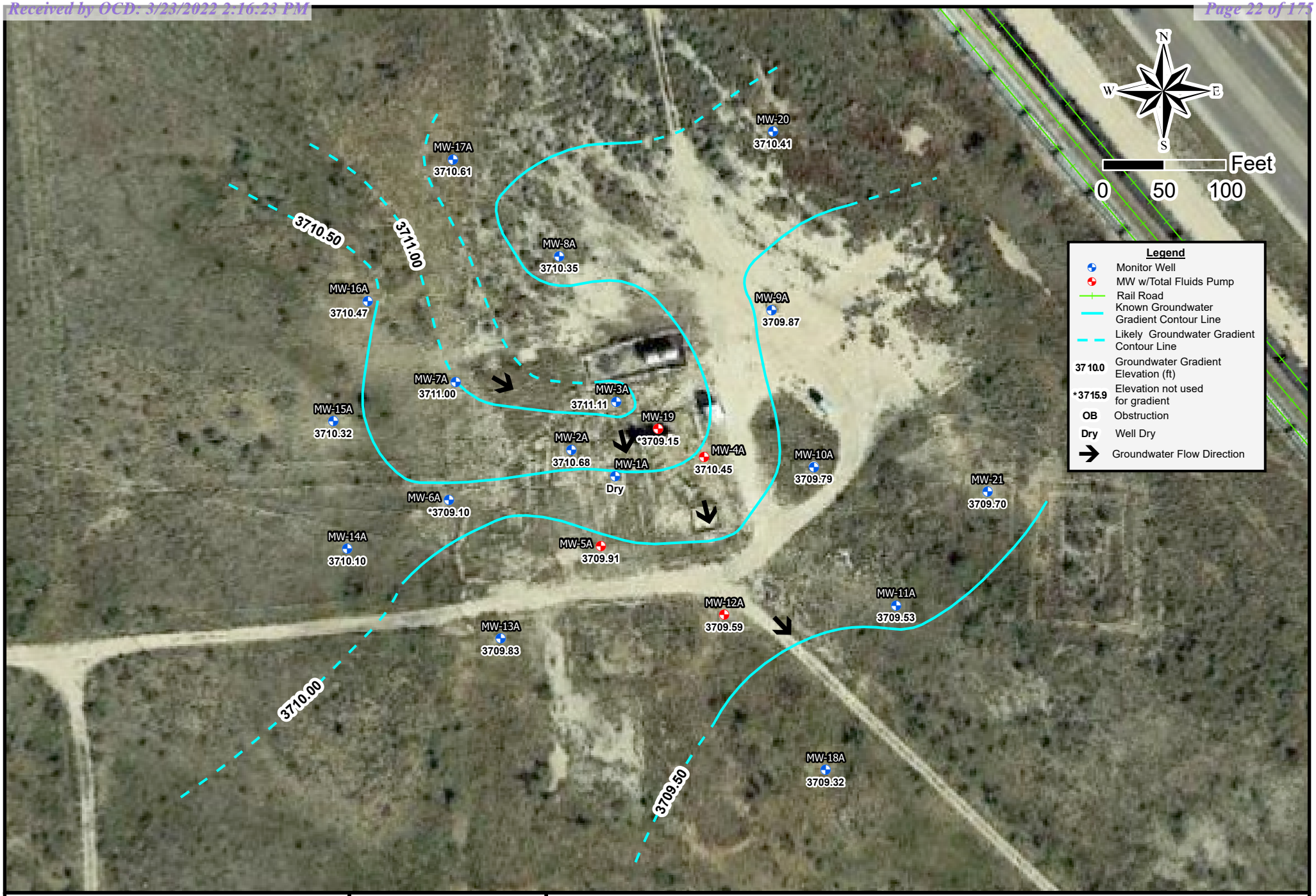
C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 2a - Groundwater Gradient Map (03/10/2021)



TALON LPE

Date: 2/2/2022
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 (06/11/2021)



TALON LPE

Date: 12/1/2021
1 in = 100 ft
Drafted By: IJM

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 2c - Groundwater Gradient Map (09/14-15 & 9/29/2021)

TALON LPE

Date: 12/30/2021
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 2d - Groundwater Gradient Map (12/13/2021)

TALON LPE

Date: 2/2/2022

1 in = 100 ft

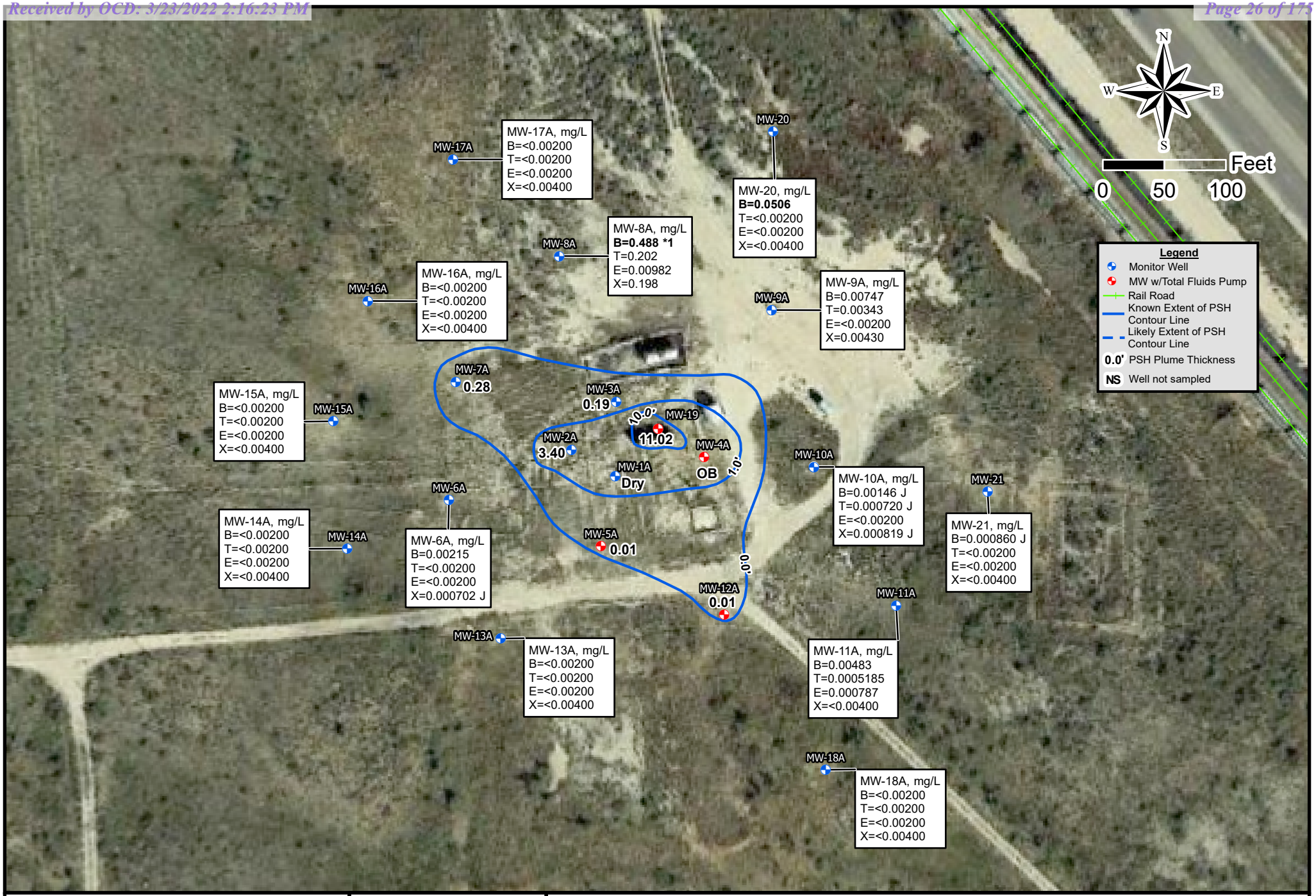
Drafted By: JAI

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 (03/10 & 12/2021)

TALON LPE

Date: 2/2/2022
1 in = 100 ft
Drafted By: IJR

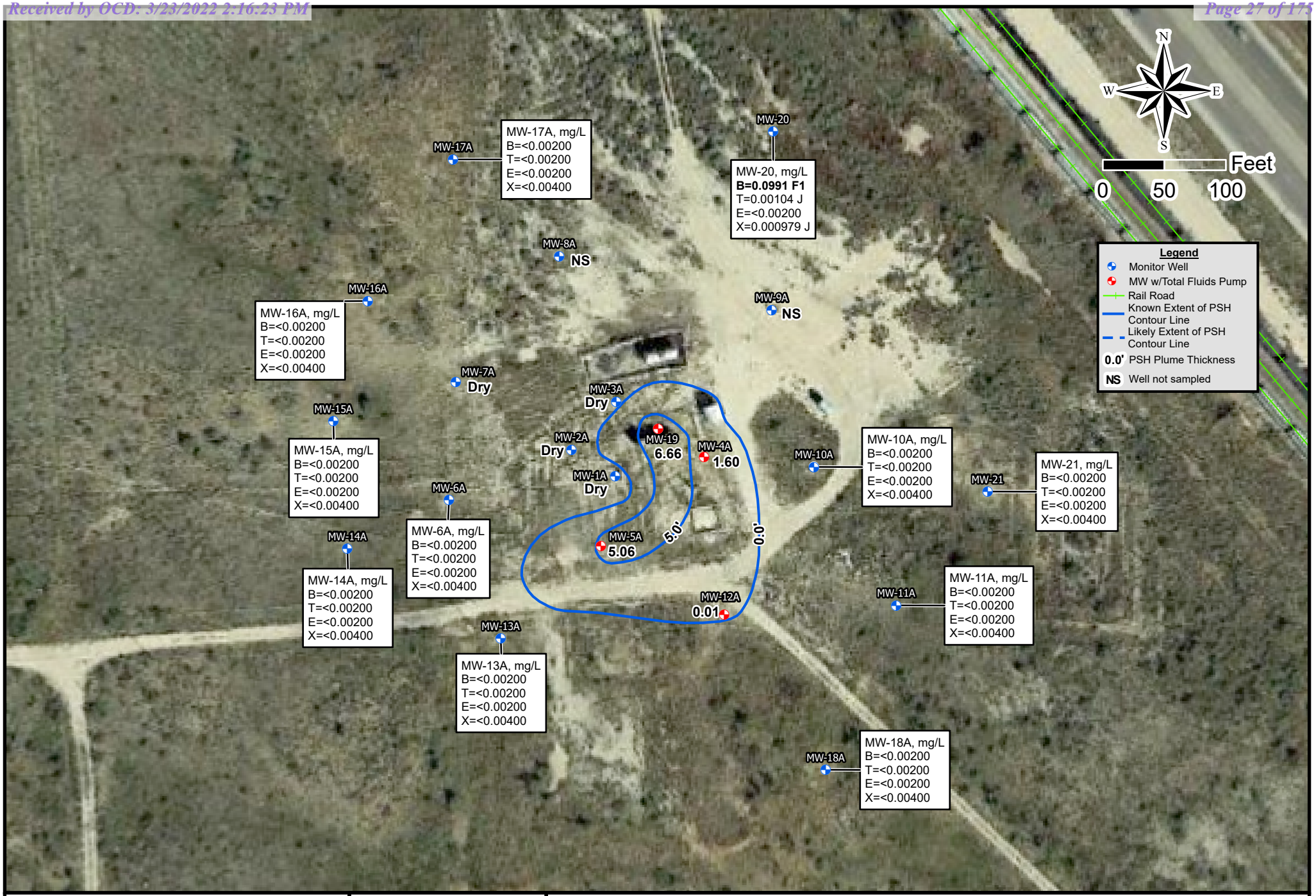
C.S. Caylor
SRS # 2002-10250, NMOCD REF. #nAPP2109527803
NW 1/4 of the NW 1/4, Sec. 6, T17S, R37E, Lea County, New Mexico
32.867769, -103.28804
Figure 3b- PSH Thickness & Groundwater Concentration Map (06/11&14/2021)



TALON LPE

Date: 1/19/2022
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 (09/15 & 30/2021)



TALON LPE

Date: 12/30/2021
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 (12/13-14/2021)

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	76.199997	96.199997	03/21/2016	95.96	91.70	4.26	3717.74
				06/16/2016	92.78	92.08	0.7	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	1.6	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	1.3	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	0.6	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	-	-	-
MW-2 4"	3807.38	68.099998	88.099998	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	5.5	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	-	-	-
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	0.6	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	0.9	3711.70
				09/15/2021	99.52	99.33	0.19	3711.11
				12/13/2021	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-4A 4"	3810.45	75	105	03/21/2016	97.85	92.30	5.55	3717.23
				06/16/2016	97.55	92.85	4.7	3716.82
				09/13/2016	98.57	93.66	4.91	3715.98
				11/29/2016	98.35	93.45	4.9	3716.19
				03/13/2017	98.60	93.50	5.1	3716.11
				06/07/2017	99.10	93.80	5.3	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	5.2	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	4.5	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	1.6	3710.29
MW-5 4"	3809.29	73.400002	93.400002	03/21/2016	93.05	90.85	2.2	3718.08
				06/16/2016	PA	-	-	-
MW-5A 4"	3809.3	75	109	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	5.5	3715.09
				03/23/2018	99.02	93.26	5.76	3715.09
				06/13/2018	100.25	93.95	6.3	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
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

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	2.5	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	0.6	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	-	-	-
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
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

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-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
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
MW-12 2"	3809.81	70.800003	90.800003	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

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
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
MW-15 2"	3810.93	72.199997	92.199997	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

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-16 2"	3812.23	71.199997	91.199997	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
MW-17 2"	3810.57	71	92.699997	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
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

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	2.7	3713.29
				12/12/2018	98.90	97.30	1.6	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
MW-20 2"	3810	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
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

Specific Gravity = 0.835

Notes:

DR = Well dry

DS = Well destroyed

NG = Well not gauged

NL = Well not located

NSA = No access

OB = Obstruction in well

PA = Well plugged and abandoned

Table 2 - Groundwater Analytical Data - Historical
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)
NMOCD - Groundwater		0.01	0.75	0.75	0.62	
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
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
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

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)
NMOCD - Groundwater		0.01	0.75	0.75	0.62	
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
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
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

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)
NMOCD - Groundwater		0.01	0.75	0.75	0.62	
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
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

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)
NMOCD - Groundwater		0.01	0.75	0.75	0.62	
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
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

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)
NMOCD - Groundwater		0.01	0.75	0.75	0.62	
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
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

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)
NMOCD - Groundwater		0.01	0.75	0.75	0.62	
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

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

Analyte concentration exceeds the standard for:
NMOCD - Groundwater

Table 3 - Groundwater Analytical Data - Historical - PAH Supplement
CS Caylor
Lea County, NEW MEXICO
SRS#: 2002-10250

Sample ID	Date Sampled	Acenaphthene (mg/l)	Acenaphthylene (mg/l)	Anthracene (mg/l)	Benzo(a)anthracene (mg/l)	Benzo(a)pyrene (mg/l)	Benzo(b)fluoranthene (mg/l)	Benzo(g,h,i)perylene (mg/l)	Benzo(k)fluoranthene (mg/l)	Chrysene (mg/l)	Dibenz(a,h)anthracene (mg/l)	Dibenzofuran (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno (1,2,3-c,d) pyren (mg/l)	Naphthalene (mg/l)	Phenanthrene (mg/l)	Pyrene (mg/l)
NMOCD - Groundwater						0.007										0.03		
MW-6A	11/29/2016	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250
MW-9A	11/29/2016	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.000104	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250
	03/27/2018	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	0.000475	0.000168 J	<0.000108
	03/23/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	<0.0000045	<0.0000055	<0.0000092
	03/12/2020	<0.000107	<0.0000903	<0.0000929	<0.000144	<0.0000612	<0.0000762	<0.000121	<0.000125	<0.000167	<0.0000815	-	<0.000169	<0.000108	<0.0000979	<0.000104	<0.0000912	<0.000140
MW-12A	03/22/2016	<0.0000332	<0.0000581	<0.0000321	<0.0000721	<0.0000418	<0.0000710	<0.0000519	<0.0000561	<0.0000811	<0.0000562	0.000492	<0.0000638	<0.0000788	<0.0000537	0.00165	0.000335	<0.0000415
	11/29/2016	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	<0.0000250	0.00233	<0.0000250	0.000921	<0.0000250	0.021 D	0.00107	<0.0000250
MW-15A	07/12/2016	<0.0000350	<0.0000612	<0.0000338	<0.0000759	<0.0000440	<0.0000748	<0.0000546	<0.0000591	<0.0000854	<0.0000592	<0.0000639	<0.0000672	<0.0000830	<0.0000565	<0.0000691	<0.0000543	<0.0000437
	03/27/2018	<0.000109	<0.000109	<0.000109	0.000229	0.000175 J	0.000213	0.000195	0.000146 J	0.000214	0.000143 J	<0.000109	0.000191	<0.000109	0.000155 J	<0.000109	<0.000109	0.000202
	03/23/2019	<0.0000042	<0.0000075	<0.0000077	<0.0000065	<0.0000097	<0.0000093	<0.0000081	<0.0000079	<0.0000090	<0.0000050	<0.0000054	<0.0000091	<0.0000056	<0.0000050	0.0000873	<0.0000056	<0.0000094
	03/13/2020	<0.0000996	<0.0000839	<0.0000863	<0.000134	<0.0000569	<0.0000708	<0.000113	<0.000116	<0.000156	<0.0000757	-	<0.000157	<0.000100	<0.000091	<0.0000969	<0.0000848	<0.000130
MW-16A	07/12/2016	<0.0000332	<0.0000581	<0.0000321	<0.0000721	<0.0000418	<0.0000710	<0.0000519	<0.0000561	<0.0000811	<0.0000562	<0.0000607	<0.0000638	<0.0000788	<0.0000537	<0.0000656	<0.0000516	<0.0000415
	03/27/2018	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109
	03/23/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	0.000276	<0.0000055	<0.0000092
	03/13/2020	<0.0000986	<0.0000830	<0.0000854	<0.000133	<0.0000563	<0.0000701	<0.000112	<0.000115	<0.000154	<0.0000749	-	<0.000155	<0.0000993	<0.0000900	<0.0000959	<0.0000838	<0.000128
MW-17A	07/12/2016	<0.0000330	<0.0000578	<0.0000319	<0.0000717	<0.0000416	<0.0000706	<0.0000516	<0.0000558	<0.0000807	<0.0000559	<0.0000604	<0.0000635	<0.0000784	<0.0000534	<0.0000653	<0.0000513	<0.0000413
	03/27/2018	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107	<0.000107
	03/23/2019	<0.0000040	<0.0000072	<0.0000075	<0.0000063	<0.0000095	<0.0000090	<0.0000079	<0.0000077	<0.0000087	<0.0000049	<0.0000052	<0.0000089	<0.0000054	<0.0000049	0.0000284	<0.0000055	<0.0000091
MW-18A	03/22/2016	<0.0000332	<0.0000581	<0.0000321	<0.0000721	<0.0000418	<0.0000710	<0.0000519	<0.0000561	<0.0000811	<0.0000562	0.000200	<0.0000638	<0.0000788	<0.0000537	<0.0000656	<0.0000516	<0.0000415
	03/27/2018	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	<0.000109	0.000301	<0.000109
	03/23/2019	<0.0000041	<0.0000074	<0.0000077	<0.0000064	<0.0000096	<0.0000092	<0.0000080	<0.0000079	<0.0000089	<0.000005	<0.0000054	<0.0000090	<0.0000055	<0.000005	0.000308	0.0000268	<0.0000093
	03/13/2020	<0.000103	<0.0000869	<0.0000894	<0.000139	<0.0000589	<0.0000734	<0.000117	<0.000120	<0.000161	<0.0000785	-	<0.000162	<0.000104	<0.0000943	<0.0001000	<0.0000878	<0.000135
MW-20	07/12/2016	<0.000921	<0.000911	<0.000902	<0.000843	<0.00114	<0.00123	<0.00105	<0.000706	<0.000823	<0.00105	<0.000813	<0.000745	<0.000853	<0.00110	<0.000843	<0.000960	<0.000931
	03/27/2018	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108	<0.000108
	03/23/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	<0.0000053	<0.0000090	<0.0000055	<0.0000049	<0.0000045	<0.0000055	<0.0000092
MW-21	07/12/2016	<0.000931	<0.000921	<0.000911	<0.000851	<0.00115	<0.00125	0.00134 J	<0.000713	<0.000832	<0.00106	<0.000822	<0.000752	<0.000861	<0.00111	<0.000851	<0.000970	<0.000940

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

Analyte concentration exceeds the standard for:
NMOCD - Groundwater

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

Sample ID	Date Sampled	Methane (ug/l)	Ferrous Iron (mg/l)	Manganese (mg/l)	Phenolphthalein Alkalinity (mg/l)	Bicarbonate Alkalinity (mg/l)	Hydroxide Alkalinity (mg/l)	Carbonate Alkalinity (mg/l)	Alkalinity (mg/l)	Sulfate (mg/l)	Nitrate as N (mg/l)
MW-6A	12/14/2021	<5.00	<0.0500 HF	0.0122	<4.00	254	<4.00	<4.00	254	52.3	1.93
MW-10A	12/14/2021	0.796 J	<0.0500 HF	0.00665	<4.00	375	<4.00	<4.00	375	52.2	0.979
MW-11A	12/14/2021	<5.00	<0.0500 HF	0.0168	<4.00	243	<4.00	<4.00	243	89.5	1.63
MW-20	7/12/2016	-	-	0.312	-	159	<20.0	<20.0	159	55.5	1.55
MW-21	7/12/2016	-	-	0.039	-	206	<20.0	<20.0	206	109	2.39

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

APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-344-1
Laboratory Sample Delivery Group: 700376.049.04
Client Project/Site: CS Caylor

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

Attn: David Adkins

JKRAMER

Authorized for release by:
3/19/2021 6:25:30 PM

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

Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 890-344-1
SDG: 700376.049.04

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.

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: 890-344-1
SDG: 700376.049.04

Job ID: 890-344-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-344-1

Receipt
The samples were received on 3/12/2021 3:41 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions
The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: MW-18A (890-344-1), MW-13A (890-344-2), MW-14A (890-344-3), MW-15A (890-344-4), MW-16A (890-344-5), MW-20 (890-344-6), MW-10A (890-344-7), MW-11A (890-344-8), MW-17A (890-344-9), MW-8A (890-344-10), MW-21 (890-344-11), MW-6A (890-344-12) and MW-9A (890-344-13).

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

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Client Sample ID: MW-18A

Lab Sample ID: 890-344-1
Date Collected: 03/12/21 09:00
Matrix: Water
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 10:58	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 10:58	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 10:58	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 10:58	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 10:58	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 10:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*03/19/21 10:58*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/19/21 10:58*	*1*

Client Sample ID: MW-13A

Lab Sample ID: 890-344-2
Date Collected: 03/12/21 11:00
Matrix: Water
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*03/19/21 11:19*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*03/19/21 11:19*	*1*

Client Sample ID: MW-14A

Lab Sample ID: 890-344-3
Date Collected: 03/12/21 11:40
Matrix: Water
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 11:39	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 11:39	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 11:39	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 11:39	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 11:39	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 11:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*03/19/21 11:39*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/19/21 11:39*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Client Sample ID: MW-15A

Lab Sample ID: 890-344-4
Date Collected: 03/12/21 12:50
Matrix: Water
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 12:00	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 12:00	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 12:00	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 12:00	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 12:00	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 12:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 12:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*03/19/21 12:00*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/19/21 12:00*	*1*

Client Sample ID: MW-16A

Lab Sample ID: 890-344-5
Date Collected: 03/12/21 13:30
Matrix: Water
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 12:20	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 12:20	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 12:20	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 12:20	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 12:20	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 12:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*		*03/19/21 12:20*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*03/19/21 12:20*	*1*

Client Sample ID: MW-20

Lab Sample ID: 890-344-6
Date Collected: 03/12/21 11:30
Matrix: Water
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00277**		0.00200	0.000408	mg/L			03/19/21 12:40	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 12:40	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 12:40	1
Total BTEX	**0.00277**		0.00200	0.00100	mg/L			03/19/21 12:40	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 12:40	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 12:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*03/19/21 12:40*	*1*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*03/19/21 12:40*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Client Sample ID: MW-10A

Lab Sample ID: 890-344-7
Date Collected: 03/12/21 08:00
Matrix: Water
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 13:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 13:01	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 13:01	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 13:01	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 13:01	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 13:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*03/19/21 13:01*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*03/19/21 13:01*	*1*

Client Sample ID: MW-11A

Lab Sample ID: 890-344-8
Date Collected: 03/12/21 09:00
Matrix: Water
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 13:21	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 13:21	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 13:21	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 13:21	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 13:21	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 13:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 13:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*03/19/21 13:21*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*03/19/21 13:21*	*1*

Client Sample ID: MW-17A

Lab Sample ID: 890-344-9
Date Collected: 03/12/21 12:13
Matrix: Water
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00119**	**J**	0.00200	0.000408	mg/L			03/19/21 13:42	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 13:42	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 13:42	1
Total BTEX	**0.00119**	**J**	0.00200	0.00100	mg/L			03/19/21 13:42	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 13:42	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 13:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*03/19/21 13:42*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*03/19/21 13:42*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Client Sample ID: MW-8A

Lab Sample ID: 890-344-10
Matrix: Water
Date Collected: 03/12/21 13:30
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0943		0.00200	0.000408	mg/L			03/19/21 14:02	1
Ethylbenzene	0.00133	J	0.00200	0.000657	mg/L			03/19/21 14:02	1
Toluene	0.0341		0.00200	0.000367	mg/L			03/19/21 14:02	1
Total BTEX	0.190		0.00200	0.00100	mg/L			03/19/21 14:02	1
Xylenes, Total	0.0603		0.00400	0.00100	mg/L			03/19/21 14:02	1
o-Xylene	0.0178		0.00200	0.000642	mg/L			03/19/21 14:02	1
m-Xylene & p-Xylene	0.0425		0.00400	0.000629	mg/L			03/19/21 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*		*03/19/21 14:02*	*1*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*03/19/21 14:02*	*1*

Client Sample ID: MW-21

Lab Sample ID: 890-344-11
Matrix: Water
Date Collected: 03/12/21 10:30
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 15:17	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 15:17	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 15:17	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 15:17	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 15:17	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 15:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*03/19/21 15:17*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*03/19/21 15:17*	*1*

Client Sample ID: MW-6A

Lab Sample ID: 890-344-12
Matrix: Water
Date Collected: 03/12/21 14:30
Date Received: 03/12/21 15:41

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 15:38	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 15:38	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 15:38	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 15:38	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 15:38	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 15:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*		*03/19/21 15:38*	*1*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*03/19/21 15:38*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Client Sample ID: MW-9A

Date Collected: 03/12/21 07:30
Date Received: 03/12/21 15:41

Lab Sample ID: 890-344-13

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 15:58	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 15:58	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 15:58	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 15:58	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 15:58	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 15:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/19/21 15:58*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*03/19/21 15:58*	*1*

Surrogate Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)											
		DFBZ1	BFB1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-344-1	MW-18A	99	108										
890-344-1 MSD	MW-18A	95	103										
890-344-2	MW-13A	101	109										
890-344-3	MW-14A	101	104										
890-344-4	MW-15A	100	107										
890-344-5	MW-16A	102	110										
890-344-6	MW-20	100	104										
890-344-7	MW-10A	100	109										
890-344-8	MW-11A	100	112										
890-344-9	MW-17A	101	107										
890-344-10	MW-8A	80	79										
890-344-11	MW-21	103	111										
890-344-12	MW-6A	100	108										
890-344-13	MW-9A	97	105										
MB 880-592/8	Method Blank	97	102										

Surrogate Legend

DFBZ = 1,4-Difluorobenzene (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-592/8
Matrix: Water
Analysis Batch: 592

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/19/21 10:29	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/19/21 10:29	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/19/21 10:29	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/19/21 10:29	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/19/21 10:29	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/19/21 10:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/19/21 10:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*03/19/21 10:29*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/19/21 10:29*	*1*

Lab Sample ID: 890-344-1 MSD
Matrix: Water
Analysis Batch: 592

Client Sample ID: MW-18A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25
Ethylbenzene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25
Toluene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25
o-Xylene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25
m-Xylene & p-Xylene	<0.00400	U	0.200	<0.00400	U N1	mg/L		0	70 - 130	NC	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

GC VOA

Analysis Batch: 592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-344-1	MW-18A	Total/NA	Water	8021B	
890-344-2	MW-13A	Total/NA	Water	8021B	
890-344-3	MW-14A	Total/NA	Water	8021B	
890-344-4	MW-15A	Total/NA	Water	8021B	
890-344-5	MW-16A	Total/NA	Water	8021B	
890-344-6	MW-20	Total/NA	Water	8021B	
890-344-7	MW-10A	Total/NA	Water	8021B	
890-344-8	MW-11A	Total/NA	Water	8021B	
890-344-9	MW-17A	Total/NA	Water	8021B	
890-344-10	MW-8A	Total/NA	Water	8021B	
890-344-11	MW-21	Total/NA	Water	8021B	
890-344-12	MW-6A	Total/NA	Water	8021B	
890-344-13	MW-9A	Total/NA	Water	8021B	
MB 880-592/8	Method Blank	Total/NA	Water	8021B	
890-344-1 MSD	MW-18A	Total/NA	Water	8021B	

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Client Sample ID: MW-18A — Lab Sample ID: 890-344-1

Date Collected: 03/12/21 09:00 — **Matrix: Water**
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 10:58	MR	XM

Client Sample ID: MW-13A — Lab Sample ID: 890-344-2

Date Collected: 03/12/21 11:00 — **Matrix: Water**
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 11:19	MR	XM

Client Sample ID: MW-14A — Lab Sample ID: 890-344-3

Date Collected: 03/12/21 11:40 — **Matrix: Water**
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 11:39	MR	XM

Client Sample ID: MW-15A — Lab Sample ID: 890-344-4

Date Collected: 03/12/21 12:50 — **Matrix: Water**
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 12:00	MR	XM

Client Sample ID: MW-16A — Lab Sample ID: 890-344-5

Date Collected: 03/12/21 13:30 — **Matrix: Water**
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 12:20	MR	XM

Client Sample ID: MW-20 — Lab Sample ID: 890-344-6

Date Collected: 03/12/21 11:30 — **Matrix: Water**
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 12:40	MR	XM

Client Sample ID: MW-10A — Lab Sample ID: 890-344-7

Date Collected: 03/12/21 08:00 — **Matrix: Water**
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 13:01	MR	XM

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Client Sample ID: MW-11A
Lab Sample ID: 890-344-8
Date Collected: 03/12/21 09:00
Matrix: Water
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 13:21	MR	XM

Client Sample ID: MW-17A
Lab Sample ID: 890-344-9
Date Collected: 03/12/21 12:13
Matrix: Water
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 13:42	MR	XM

Client Sample ID: MW-8A
Lab Sample ID: 890-344-10
Date Collected: 03/12/21 13:30
Matrix: Water
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 14:02	MR	XM

Client Sample ID: MW-21
Lab Sample ID: 890-344-11
Date Collected: 03/12/21 10:30
Matrix: Water
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 15:17	MR	XM

Client Sample ID: MW-6A
Lab Sample ID: 890-344-12
Date Collected: 03/12/21 14:30
Matrix: Water
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 15:38	MR	XM

Client Sample ID: MW-9A
Lab Sample ID: 890-344-13
Date Collected: 03/12/21 07:30
Matrix: Water
Date Received: 03/12/21 15:41

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	592	03/19/21 15:58	MR	XM

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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
8021B		Water	Total BTEX

Method Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-344-1
SDG: 700376.049.04

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-344-1	MW-18A	Water	03/12/21 09:00	03/12/21 15:41	
890-344-2	MW-13A	Water	03/12/21 11:00	03/12/21 15:41	
890-344-3	MW-14A	Water	03/12/21 11:40	03/12/21 15:41	
890-344-4	MW-15A	Water	03/12/21 12:50	03/12/21 15:41	
890-344-5	MW-16A	Water	03/12/21 13:30	03/12/21 15:41	
890-344-6	MW-20	Water	03/12/21 11:30	03/12/21 15:41	
890-344-7	MW-10A	Water	03/12/21 08:00	03/12/21 15:41	
890-344-8	MW-11A	Water	03/12/21 09:00	03/12/21 15:41	
890-344-9	MW-17A	Water	03/12/21 12:13	03/12/21 15:41	
890-344-10	MW-8A	Water	03/12/21 13:30	03/12/21 15:41	
890-344-11	MW-21	Water	03/12/21 10:30	03/12/21 15:41	
890-344-12	MW-6A	Water	03/12/21 14:30	03/12/21 15:41	
890-344-13	MW-9A	Water	03/12/21 07:30	03/12/21 15:41	

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Chain of Custody

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

Work Order No: _____

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

Work Order Comments

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

Project Name:	CS Taylor	Turn Around	
Project Number:	700376.049.04	☒ Routine ☐ Rush	
Project Location:	Lovington, NM	Due Date:	
Sampler's Name:	RoyBell/Jonathan	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2002-10250		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	IR-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.2/4.0
Total Containers:		Corrected Temperature:	

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: BTEX 8020	Sample Comments
MW-18A	GW	3/12/21	9:00	N/A		3	X	Email Analyticals to: Camille Bryant
MW-13A			11:00					
MW-14A			11:40					
MW-15A			12:50					
MW-16A			1:30					
MW-20			11:30					
MW-10A			8:00					
MW-11A			9:00					
MW-17A			12:30					
MW-8A			13:30					

890-344 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 Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 RoyBell	Clive Cuff	3.12.21 1541	4		
3			6		
5					

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 2 of 2

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

Work Order Comments

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

Project Name:	CS Caylor	Turn Around	
Project Number:	700376049.04	☒ Routine ☐ Rush	
Project Location:	Lovington, NM	Due Date:	
Sampler's Name:	Roybell/Jonathan	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2002-10250		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	See Page 1	
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021	Sample Comments
MW-21	GW	3/12/21	10:30	N/A		3		X	
MW-6A	"	"	2830	"		"		"	
MW-9A	"	"	7:30	"		"		"	

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2SO_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Roy Bell	Joe Cate	3-12-21 1541			
3				4		
5				6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-344-1
SDG Number: 700376.049.04

Login Number: 344
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: 890-344-1
SDG Number: 700376.049.04

Login Number: 344
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 03/15/21 02:49 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-816-1
Laboratory Sample Delivery Group: Lovington NM
Client Project/Site: CS Caylor

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

Attn: David Adkins

JKRAMER

Authorized for release by:
6/24/2021 10:51:28 AM

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

Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 890-816-1
SDG: Lovington NM

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
N1	MS, MSD: Spike recovery exceeds upper or lower control limits.
U	Analyte was not detected at or above the SDL.
X	Surrogate recovery exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	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: 890-816-1
SDG: Lovington NM

Job ID: 890-816-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-816-1

Comments
No additional comments.

Receipt
The samples were received on 6/16/2021 8:14 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.6º C.

GC VOA
Method 8021B: The matrix spike duplicate (MSD) recoveries for analytical batch 880-4226 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The method blank for analytical batch 880-4226 contained Toluene above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

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

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

Client Sample ID: MW-11A

Lab Sample ID: 890-816-1
Date Collected: 06/14/21 07:30
Matrix: Water
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 15:05	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 15:05	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 15:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 15:05	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 15:05	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 15:05	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 15:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*		*06/17/21 15:05*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*06/17/21 15:05*	*1*

Client Sample ID: MW-13A

Lab Sample ID: 890-816-2
Date Collected: 06/14/21 08:45
Matrix: Water
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 15:29	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 15:29	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 15:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 15:29	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 15:29	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 15:29	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 15:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*		*06/17/21 15:29*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*		*06/17/21 15:29*	*1*

Client Sample ID: MW-14A

Lab Sample ID: 890-816-3
Date Collected: 06/14/21 09:30
Matrix: Water
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 15:54	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 15:54	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 15:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 15:54	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 15:54	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 15:54	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*06/17/21 15:54*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*		*06/17/21 15:54*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

Client Sample ID: MW-6A

Lab Sample ID: 890-816-4
Date Collected: 06/14/21 10:30
Matrix: Water
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 16:19	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 16:19	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 16:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 16:19	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 16:19	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 16:19	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*06/17/21 16:19*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*		*06/17/21 16:19*	*1*

Client Sample ID: MW-15A

Lab Sample ID: 890-816-5
Date Collected: 06/14/21 11:10
Matrix: Water
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 16:43	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 16:43	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 16:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 16:43	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 16:43	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 16:43	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 16:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*		*06/17/21 16:43*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*		*06/17/21 16:43*	*1*

Client Sample ID: MW-16A

Lab Sample ID: 890-816-6
Date Collected: 06/14/21 12:00
Matrix: Water
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 17:08	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 17:08	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 17:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 17:08	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 17:08	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 17:08	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 17:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*06/17/21 17:08*	*1*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*		*06/17/21 17:08*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

Client Sample ID: MW-17A

Lab Sample ID: 890-816-7
Date Collected: 06/14/21 13:30
Matrix: Water
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000820**	**J**	0.00200	0.000408	mg/L			06/17/21 17:32	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 17:32	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 17:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 17:32	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 17:32	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 17:32	1
Total BTEX	**0.000820**	**J**	0.00400	0.000657	mg/L			06/17/21 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*06/17/21 17:32*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*		*06/17/21 17:32*	*1*

Client Sample ID: MW-9A

Lab Sample ID: 890-816-8
Date Collected: 06/14/21 13:30
Matrix: Water
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 17:57	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 17:57	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 17:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 17:57	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 17:57	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 17:57	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*06/17/21 17:57*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*		*06/17/21 17:57*	*1*

Client Sample ID: MW-10A

Lab Sample ID: 890-816-9
Date Collected: 06/14/21 13:00
Matrix: Water
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0136**		0.00200	0.000408	mg/L			06/17/21 18:21	1
Toluene	**0.000542**	**J**	0.00200	0.000367	mg/L			06/17/21 18:21	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 18:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 18:21	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 18:21	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 18:21	1
Total BTEX	**0.0141**		0.00400	0.000657	mg/L			06/17/21 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*		*06/17/21 18:21*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*		*06/17/21 18:21*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

Client Sample ID: MW-8A

Lab Sample ID: 890-816-10
Matrix: Water
Date Collected: 06/14/21 13:00
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 18:47	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 18:47	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 18:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 18:47	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 18:47	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 18:47	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 18:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*		*06/17/21 18:47*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*06/17/21 18:47*	*1*

Client Sample ID: MW-21

Lab Sample ID: 890-816-11
Matrix: Water
Date Collected: 06/14/21 14:00
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 15:27	1
Toluene	**0.000371**	**J**	0.00200	0.000367	mg/L			06/23/21 15:27	1
Ethylbenzene	**0.000906**	**J**	0.00200	0.000657	mg/L			06/23/21 15:27	1
m-Xylene & p-Xylene	**0.00211**	**J**	0.00400	0.000629	mg/L			06/23/21 15:27	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 15:27	1
Xylenes, Total	**0.00211**	**J**	0.00400	0.000642	mg/L			06/23/21 15:27	1
Total BTEX	**0.00339**	**J**	0.00400	0.000657	mg/L			06/23/21 15:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*06/23/21 15:27*	*1*
1,4-Difluorobenzene (Surr)	*155*	*X*	*70 - 130*		*06/23/21 15:27*	*1*

Client Sample ID: MW-18A

Lab Sample ID: 890-816-13
Matrix: Water
Date Collected: 06/14/21 14:40
Date Received: 06/16/21 08:14

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 15:52	1
Toluene	**0.000405**	**J**	0.00200	0.000367	mg/L			06/23/21 15:52	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 15:52	1
m-Xylene & p-Xylene	**0.00125**	**J**	0.00400	0.000629	mg/L			06/23/21 15:52	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 15:52	1
Xylenes, Total	**0.00125**	**J**	0.00400	0.000642	mg/L			06/23/21 15:52	1
Total BTEX	**0.00166**	**J**	0.00400	0.000657	mg/L			06/23/21 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*06/23/21 15:52*	*1*
1,4-Difluorobenzene (Surr)	*150*	*X*	*70 - 130*		*06/23/21 15:52*	*1*

Surrogate Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-816-1	MW-11A	116	105										
890-816-1 MS	MW-11A	104	109										
890-816-1 MSD	MW-11A	71	92										
890-816-2	MW-13A	116	102										
890-816-3	MW-14A	118	104										
890-816-4	MW-6A	114	103										
890-816-5	MW-15A	123	109										
890-816-6	MW-16A	118	106										
890-816-7	MW-17A	118	104										
890-816-8	MW-9A	114	102										
890-816-9	MW-10A	124	108										
890-816-10	MW-8A	72	92										
890-816-11	MW-21	112	155 X										
890-816-13	MW-18A	102	150 X										
LCS 880-4226/3	Lab Control Sample	102	108										
LCS 880-4428/3	Lab Control Sample	109	114										
LCS 880-4464/34	Lab Control Sample	96	158 X										
LCSD 880-4226/4	Lab Control Sample Dup	104	109										
LCSD 880-4428/4	Lab Control Sample Dup	94	99										
LCSD 880-4464/35	Lab Control Sample Dup	95	151 X										
MB 880-4226/8	Method Blank	0.002 X	87										
MB 880-4428/9	Method Blank	111	101										
MB 880-4464/39	Method Blank	64 X	119										
MB 880-4464/8	Method Blank	62 X	111										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-4226/8
Matrix: Water
Analysis Batch: 4226

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/17/21 14:41	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/17/21 14:41	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/17/21 14:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/17/21 14:41	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/17/21 14:41	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/17/21 14:41	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/17/21 14:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*0.002*	*X*	*70 - 130*		*06/17/21 14:41*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*		*06/17/21 14:41*	*1*

Lab Sample ID: LCS 880-4226/3
Matrix: Water
Analysis Batch: 4226

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	0.08239		mg/L		82	70 - 130		
Toluene			0.100	0.08174		mg/L		82	70 - 130		
Ethylbenzene			0.100	0.1011		mg/L		101	70 - 130		
m-Xylene & p-Xylene			0.200	0.1796		mg/L		90	70 - 130		
o-Xylene			0.100	0.09309		mg/L		93	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 880-4226/4
Matrix: Water
Analysis Batch: 4226

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	0.08001		mg/L		80	70 - 130	3	20
Toluene			0.100	0.07839		mg/L		78	70 - 130	4	20
Ethylbenzene			0.100	0.09988		mg/L		100	70 - 130	1	20
m-Xylene & p-Xylene			0.200	0.1774		mg/L		89	70 - 130	1	20
o-Xylene			0.100	0.09060		mg/L		91	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-816-1 MS
Matrix: Water
Analysis Batch: 4226

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		
Benzene	<0.00200	U	0.100	0.08557		mg/L		86	70 - 130		

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

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

Lab Sample ID: 890-816-1 MS
Matrix: Water
Analysis Batch: 4226

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
Toluene	<0.00200	U	0.100	0.08443		mg/L		84	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1057		mg/L		106	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1884		mg/L		94	70 - 130
o-Xylene	<0.00200	U	0.100	0.09756		mg/L		98	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-816-1 MSD
Matrix: Water
Analysis Batch: 4226

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
Benzene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25
Toluene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25
Ethylbenzene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25
m-Xylene & p-Xylene	<0.00400	U	0.200	<0.00400	U N1	mg/L		0	70 - 130	NC	25
o-Xylene	<0.00200	U	0.100	<0.00200	U N1	mg/L		0	70 - 130	NC	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*71*		*70 - 130*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*

Lab Sample ID: MB 880-4428/9
Matrix: Water
Analysis Batch: 4428

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/21/21 19:31	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/21/21 19:31	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/21/21 19:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/21/21 19:31	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/21/21 19:31	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/21/21 19:31	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/21/21 19:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*06/21/21 19:31*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*		*06/21/21 19:31*	*1*

Lab Sample ID: LCS 880-4428/3
Matrix: Water
Analysis Batch: 4428

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*

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QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

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

Lab Sample ID: LCS 880-4428/3
Matrix: Water
Analysis Batch: 4428

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

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

Lab Sample ID: LCSD 880-4428/4
Matrix: Water
Analysis Batch: 4428

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: MB 880-4464/39
Matrix: Water
Analysis Batch: 4464

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 02:31	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/23/21 02:31	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 02:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/23/21 02:31	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 02:31	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/23/21 02:31	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/23/21 02:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	X	70 - 130		06/23/21 02:31	1
1,4-Difluorobenzene (Surr)	119		70 - 130		06/23/21 02:31	1

Lab Sample ID: MB 880-4464/8
Matrix: Water
Analysis Batch: 4464

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/22/21 13:28	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/22/21 13:28	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/22/21 13:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/22/21 13:28	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/22/21 13:28	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/22/21 13:28	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/22/21 13:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	62	X	70 - 130		06/22/21 13:28	1
1,4-Difluorobenzene (Surr)	111		70 - 130		06/22/21 13:28	1

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

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

Lab Sample ID: LCS 880-4464/34
Matrix: Water
Analysis Batch: 4464

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	0.1221		mg/L		122	70 - 130		
Toluene			0.100	0.1166		mg/L		117	70 - 130		
Ethylbenzene			0.100	0.1065		mg/L		106	70 - 130		
m-Xylene & p-Xylene			0.200	0.2195		mg/L		110	70 - 130		
o-Xylene			0.100	0.1098		mg/L		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
1,4-Difluorobenzene (Surr)	*158*	*X*	*70 - 130*

Lab Sample ID: LCSD 880-4464/35
Matrix: Water
Analysis Batch: 4464

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	0.1204		mg/L		120	70 - 130	1	20
Toluene			0.100	0.1234		mg/L		123	70 - 130	6	20
Ethylbenzene			0.100	0.1061		mg/L		106	70 - 130	0	20
m-Xylene & p-Xylene			0.200	0.2185		mg/L		109	70 - 130	0	20
o-Xylene			0.100	0.1094		mg/L		109	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*151*	*X*	*70 - 130*

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

GC VOA

Analysis Batch: 4226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-816-1	MW-11A	Total/NA	Water	8021B	
890-816-2	MW-13A	Total/NA	Water	8021B	
890-816-3	MW-14A	Total/NA	Water	8021B	
890-816-4	MW-6A	Total/NA	Water	8021B	
890-816-5	MW-15A	Total/NA	Water	8021B	
890-816-6	MW-16A	Total/NA	Water	8021B	
890-816-7	MW-17A	Total/NA	Water	8021B	
890-816-8	MW-9A	Total/NA	Water	8021B	
890-816-9	MW-10A	Total/NA	Water	8021B	
890-816-10	MW-8A	Total/NA	Water	8021B	
MB 880-4226/8	Method Blank	Total/NA	Water	8021B	
LCS 880-4226/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-4226/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-816-1 MS	MW-11A	Total/NA	Water	8021B	
890-816-1 MSD	MW-11A	Total/NA	Water	8021B	

Analysis Batch: 4428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-4428/9	Method Blank	Total/NA	Water	8021B	
LCS 880-4428/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-4428/4	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 4464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-816-11	MW-21	Total/NA	Water	8021B	
890-816-13	MW-18A	Total/NA	Water	8021B	
MB 880-4464/39	Method Blank	Total/NA	Water	8021B	
MB 880-4464/8	Method Blank	Total/NA	Water	8021B	
LCS 880-4464/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-4464/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

Client Sample ID: MW-11A
Date Collected: 06/14/21 07:30
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 15:05	MR	XEN MID

Client Sample ID: MW-13A
Date Collected: 06/14/21 08:45
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 15:29	MR	XEN MID

Client Sample ID: MW-14A
Date Collected: 06/14/21 09:30
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 15:54	MR	XEN MID

Client Sample ID: MW-6A
Date Collected: 06/14/21 10:30
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 16:19	MR	XEN MID

Client Sample ID: MW-15A
Date Collected: 06/14/21 11:10
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 16:43	MR	XEN MID

Client Sample ID: MW-16A
Date Collected: 06/14/21 12:00
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 17:08	MR	XEN MID

Client Sample ID: MW-17A
Date Collected: 06/14/21 13:30
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 17:32	MR	XEN MID

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

Client Sample ID: MW-9A
Date Collected: 06/14/21 13:30
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 17:57	MR	XEN MID

Client Sample ID: MW-10A
Date Collected: 06/14/21 13:00
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 18:21	MR	XEN MID

Client Sample ID: MW-8A
Date Collected: 06/14/21 13:00
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4226	06/17/21 18:47	MR	XEN MID

Client Sample ID: MW-21
Date Collected: 06/14/21 14:00
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4464	06/23/21 15:27	MR	XEN MID

Client Sample ID: MW-18A
Date Collected: 06/14/21 14:40
Date Received: 06/16/21 08:14

Lab Sample ID: 890-816-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4464	06/23/21 15:52	MR	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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
8021B		Water	Total BTEX

Method Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-816-1
SDG: Lovington NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-816-1	MW-11A	Water	06/14/21 07:30	06/16/21 08:14	
890-816-2	MW-13A	Water	06/14/21 08:45	06/16/21 08:14	
890-816-3	MW-14A	Water	06/14/21 09:30	06/16/21 08:14	
890-816-4	MW-6A	Water	06/14/21 10:30	06/16/21 08:14	
890-816-5	MW-15A	Water	06/14/21 11:10	06/16/21 08:14	
890-816-6	MW-16A	Water	06/14/21 12:00	06/16/21 08:14	
890-816-7	MW-17A	Water	06/14/21 13:30	06/16/21 08:14	
890-816-8	MW-9A	Water	06/14/21 13:30	06/16/21 08:14	
890-816-9	MW-10A	Water	06/14/21 13:00	06/16/21 08:14	
890-816-10	MW-8A	Water	06/14/21 13:00	06/16/21 08:14	
890-816-11	MW-21	Water	06/14/21 14:00	06/16/21 08:14	
890-816-13	MW-18A	Water	06/14/21 14:40	06/16/21 08:14	

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Chain of Custody

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

Work Order No: _____

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

Work Order Comments

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

Project Name:	CS Taylor	Turn Around	
Project Number:	2002-10250	☒ Routine ☐ Rush	
Project Location:	Lovington, NM	Due Date:	
Sampler's Name:	RoyBell, James C.	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2002-10250		

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	T-NM-007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.8
Total Containers:		Corrected Temperature:	61.6

ANALYSIS REQUEST

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	Sample Comments
MW-11A	GW	6/14/21	7:30	N/A		3	X	Email Analyticals to: CJBryant@paalp.com ALGroves@paalp.com MaOchoa@paalp.com dadkins@talonlpe.com
MW-13A			8:45					
MW-14A			9:30					
MW-6A			10:30					
MW-15A			11:10					
MW-16A			12:00					
MW-17A			1:30					
MW-9A			1:30					
MW-10A			1:00					
MW-8A			2:00					

890-816 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 Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 RyBell	N. Doe	6/16/21 8:00	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

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

Work Order Comments

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

Project Name:	CS Taylor	Turn Around	
Project Number:	2002-10250	☒ Routine ☐ Rush	
Project Location:	Lovington, NM	Due Date:	
Sampler's Name:	Ray Bell, James C	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS # 2002-10250		

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

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	Sample Comments
MW-21	GW	6/14/21	2:20	N/A		3		X	Email Analytical to: CJBryant@paalp.com ALGroves@paalp.com MLOchoa@paalp.com dadkins@talonlpe.com
MW-20	"	"	2:30	"		"		"	
MW-18A	"	"	2:40	"		"		"	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Ray Bell	N. Ochoa	6/16/21 / 8:00	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-816-1
SDG Number: Lovington NM

Login Number: 816
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, 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: 890-816-1
SDG Number: Lovington NM

Login Number: 816
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 06/17/21 12:04 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1264-1
Laboratory Sample Delivery Group: Lea County NM
Client Project/Site: C.S. Caylor (Caylor)

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

Attn: David Adkins

Holly Taylor

Authorized for release by:
9/24/2021 9:51:40 AM
Holly Taylor, Project Manager
holly.taylor@eurofinset.com

Designee for

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

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

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

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Laboratory Job ID: 890-1264-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Job ID: 890-1264-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1264-1

Comments
No additional comments.

Receipt
The samples were received on 9/16/2021 3:24 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0º C.

GC VOA
Method 8021B: 1,4-Difluorobenzene Surrogate recovery for the following samples were outside control limits: MW-8A (890-1264-2), MW-14A (890-1264-6), MW-17A (890-1264-9) and MW-18A (890-1264-10). Evidence of matrix interferences is not obvious.

Method 8021B: 1,4-Difluorobenzene recovery for the following samples were outside the upper control limit: (LCS 880-8163/52), (LCSD 880-8163/53), (MB 880-8138/5-A), (890-1276-H-1 MS) and (890-1276-H-1 MSD). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-8163 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: (LCS 880-8163/52), (LCSD 880-8163/53), (MB 880-8138/5-A), (890-1276-H-1 MS) and (890-1276-H-1 MSD). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Client Sample ID: MW-6A

Lab Sample ID: 890-1264-1
Matrix: Water
Date Collected: 09/15/21 12:00
Date Received: 09/16/21 15:24
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00215**		0.00200	0.000408	mg/L			09/20/21 20:04	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 20:04	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 20:04	1
m-Xylene & p-Xylene	**0.000702**	**J**	0.00400	0.000629	mg/L			09/20/21 20:04	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 20:04	1
Xylenes, Total	**0.000702**	**J**	0.00400	0.000642	mg/L			09/20/21 20:04	1
Total BTEX	**0.00285**	**J**	0.00400	0.000657	mg/L			09/20/21 20:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*09/20/21 20:04*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*		*09/20/21 20:04*	*1*

Client Sample ID: MW-8A

Lab Sample ID: 890-1264-2
Matrix: Water
Date Collected: 09/15/21 13:10
Date Received: 09/16/21 15:24
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.488**	***1**	0.0400	0.00816	mg/L			09/22/21 16:15	20
Toluene	**0.202**		0.00200	0.000367	mg/L			09/20/21 20:31	1
Ethylbenzene	**0.00982**		0.00200	0.000657	mg/L			09/20/21 20:31	1
m-Xylene & p-Xylene	**0.108**		0.00400	0.000629	mg/L			09/20/21 20:31	1
o-Xylene	**0.0899**		0.00200	0.000642	mg/L			09/20/21 20:31	1
Xylenes, Total	**0.198**		0.00400	0.000642	mg/L			09/20/21 20:31	1
Total BTEX	**0.975**		0.0800	0.0131	mg/L			09/22/21 16:15	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*09/20/21 20:31*	*1*
1,4-Difluorobenzene (Surr)	*134*	*S1+*	*70 - 130*		*09/20/21 20:31*	*1*

Client Sample ID: MW-9A

Lab Sample ID: 890-1264-3
Matrix: Water
Date Collected: 09/15/21 11:18
Date Received: 09/16/21 15:24
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00747**		0.00200	0.000408	mg/L			09/20/21 20:59	1
Toluene	**0.00343**		0.00200	0.000367	mg/L			09/20/21 20:59	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 20:59	1
m-Xylene & p-Xylene	**0.00251**	**J**	0.00400	0.000629	mg/L			09/20/21 20:59	1
o-Xylene	**0.00179**	**J**	0.00200	0.000642	mg/L			09/20/21 20:59	1
Xylenes, Total	**0.00430**		0.00400	0.000642	mg/L			09/20/21 20:59	1
Total BTEX	**0.0152**		0.00400	0.000657	mg/L			09/20/21 20:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*09/20/21 20:59*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*		*09/20/21 20:59*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Client Sample ID: MW-10A

Lab Sample ID: 890-1264-4
Matrix: Water
Date Collected: 09/15/21 10:50
Date Received: 09/16/21 15:24
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00146**	**J**	0.00200	0.000408	mg/L			09/20/21 21:27	1
Toluene	**0.000720**	**J**	0.00200	0.000367	mg/L			09/20/21 21:27	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 21:27	1
m-Xylene & p-Xylene	**0.000819**	**J**	0.00400	0.000629	mg/L			09/20/21 21:27	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 21:27	1
Xylenes, Total	**0.000819**	**J**	0.00400	0.000642	mg/L			09/20/21 21:27	1
Total BTEX	**0.00300**	**J**	0.00400	0.000657	mg/L			09/20/21 21:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*09/20/21 21:27*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*		*09/20/21 21:27*	*1*

Client Sample ID: MW-13A

Lab Sample ID: 890-1264-5
Matrix: Water
Date Collected: 09/15/21 12:50
Date Received: 09/16/21 15:24
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 21:55	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 21:55	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 21:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 21:55	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 21:55	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 21:55	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*09/20/21 21:55*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*		*09/20/21 21:55*	*1*

Client Sample ID: MW-14A

Lab Sample ID: 890-1264-6
Matrix: Water
Date Collected: 09/15/21 13:20
Date Received: 09/16/21 15:24
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 22:21	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 22:21	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 22:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 22:21	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 22:21	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 22:21	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*134*	*S1+*	*70 - 130*		*09/20/21 22:21*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*		*09/20/21 22:21*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Client Sample ID: MW-15A
Date Collected: 09/15/21 12:45
Date Received: 09/16/21 15:24
Sample Depth: N/A

Lab Sample ID: 890-1264-7
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 22:47	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 22:47	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 22:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 22:47	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 22:47	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 22:47	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 22:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*		*09/20/21 22:47*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*		*09/20/21 22:47*	*1*

Client Sample ID: MW-16A
Date Collected: 09/15/21 12:50
Date Received: 09/16/21 15:24
Sample Depth: N/A

Lab Sample ID: 890-1264-8
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 23:12	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 23:12	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 23:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 23:12	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 23:12	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 23:12	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 23:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*		*09/20/21 23:12*	*1*
1,4-Difluorobenzene (Surr)	*120*		*70 - 130*		*09/20/21 23:12*	*1*

Client Sample ID: MW-17A
Date Collected: 09/15/21 15:08
Date Received: 09/16/21 15:24
Sample Depth: N/A

Lab Sample ID: 890-1264-9
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 23:38	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 23:38	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 23:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 23:38	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 23:38	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 23:38	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*		*09/20/21 23:38*	*1*
1,4-Difluorobenzene (Surr)	*131*	*S1+*	*70 - 130*		*09/20/21 23:38*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Client Sample ID: MW-18A

Lab Sample ID: 890-1264-10
Matrix: Water
Date Collected: 09/15/21 14:50
Date Received: 09/16/21 15:24
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/21/21 01:45	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 01:45	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 01:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/21/21 01:45	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/21/21 01:45	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/21/21 01:45	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/21/21 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*136*	*S1+*	*70 - 130*		*09/21/21 01:45*	*1*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*		*09/21/21 01:45*	*1*

Client Sample ID: MW-20

Lab Sample ID: 890-1264-11
Matrix: Water
Date Collected: 09/15/21 13:45
Date Received: 09/16/21 15:24
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0506**		0.00200	0.000408	mg/L			09/21/21 02:11	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 02:11	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 02:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/21/21 02:11	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/21/21 02:11	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/21/21 02:11	1
Total BTEX	**0.0506**		0.00400	0.000657	mg/L			09/21/21 02:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*		*09/21/21 02:11*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*		*09/21/21 02:11*	*1*

Client Sample ID: MW-21

Lab Sample ID: 890-1264-12
Matrix: Water
Date Collected: 09/15/21 14:30
Date Received: 09/16/21 15:24
Sample Depth: N/A

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.000860**	**J**	0.00200	0.000408	mg/L			09/21/21 02:37	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 02:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 02:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/21/21 02:37	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/21/21 02:37	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/21/21 02:37	1
Total BTEX	**0.000860**	**J**	0.00400	0.000657	mg/L			09/21/21 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*		*09/21/21 02:37*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*		*09/21/21 02:37*	*1*

Surrogate Summary

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1264-1	MW-6A	117	92
890-1264-1 MS	MW-6A	95	96
890-1264-1 MSD	MW-6A	95	100
890-1264-2	MW-8A	106	134 S1+
890-1264-3	MW-9A	105	83
890-1264-4	MW-10A	108	96
890-1264-5	MW-13A	109	93
890-1264-6	MW-14A	134 S1+	87
890-1264-7	MW-15A	128	116
890-1264-8	MW-16A	121	120
890-1264-9	MW-17A	124	131 S1+
890-1264-10	MW-18A	136 S1+	90
890-1264-11	MW-20	127	105
890-1264-12	MW-21	113	111
890-1276-H-1 MS	Matrix Spike	141 S1+	256 S1+
890-1276-H-1 MSD	Matrix Spike Duplicate	140 S1+	314 S1+
LCS 880-8153/3	Lab Control Sample	118	108
LCS 880-8163/52	Lab Control Sample	130	306 S1+
LCSD 880-8153/4	Lab Control Sample Dup	112	106
LCSD 880-8163/53	Lab Control Sample Dup	108	197 S1+
MB 880-8138/5-A	Method Blank	76	297 S1+
MB 880-8153/8	Method Blank	79	95
MB 880-8163/57	Method Blank	93	336 S1+

Surrogate Legend

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

QC Sample Results

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8138/5-A
Matrix: Water
Analysis Batch: 8163

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8138

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L		09/20/21 13:54	09/22/21 03:49	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L		09/20/21 13:54	09/22/21 03:49	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L		09/20/21 13:54	09/22/21 03:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L		09/20/21 13:54	09/22/21 03:49	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L		09/20/21 13:54	09/22/21 03:49	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L		09/20/21 13:54	09/22/21 03:49	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L		09/20/21 13:54	09/22/21 03:49	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*70 - 130*	*09/20/21 13:54*	*09/22/21 03:49*	*1*
1,4-Difluorobenzene (Surr)	*297*	*S1+*	*70 - 130*	*09/20/21 13:54*	*09/22/21 03:49*	*1*

Lab Sample ID: MB 880-8153/8
Matrix: Water
Analysis Batch: 8153

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/20/21 19:37	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 19:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 19:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 19:37	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 19:37	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 19:37	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 19:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*70 - 130*		*09/20/21 19:37*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*09/20/21 19:37*	*1*

Lab Sample ID: LCS 880-8153/3
Matrix: Water
Analysis Batch: 8153

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	0.09903		mg/L		99	70 - 130
Toluene	0.100	0.09893		mg/L		99	70 - 130
Ethylbenzene	0.100	0.1024		mg/L		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2291		mg/L		115	70 - 130
o-Xylene	0.100	0.1101		mg/L		110	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*

QC Sample Results

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-8153/4
Matrix: Water
Analysis Batch: 8153

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	0.09618		mg/L		96	70 - 130	3	20
Toluene			0.100	0.1038		mg/L		104	70 - 130	5	20
Ethylbenzene			0.100	0.09945		mg/L		99	70 - 130	3	20
m-Xylene & p-Xylene			0.200	0.2232		mg/L		112	70 - 130	3	20
o-Xylene			0.100	0.1086		mg/L		109	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-1264-1 MS
Matrix: Water
Analysis Batch: 8153

Client Sample ID: MW-6A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.00215		0.100	0.07993		mg/L		78	70 - 130
Toluene	<0.00200	U	0.100	0.08894		mg/L		89	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.08522		mg/L		85	70 - 130
m-Xylene & p-Xylene	0.000702	J	0.200	0.1904		mg/L		95	70 - 130
o-Xylene	<0.00200	U	0.100	0.09240		mg/L		92	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-1264-1 MSD
Matrix: Water
Analysis Batch: 8153

Client Sample ID: MW-6A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.00215		0.100	0.08408		mg/L		82	70 - 130	5	25
Toluene	<0.00200	U	0.100	0.09524		mg/L		95	70 - 130	7	25
Ethylbenzene	<0.00200	U	0.100	0.09015		mg/L		90	70 - 130	6	25
m-Xylene & p-Xylene	0.000702	J	0.200	0.2024		mg/L		101	70 - 130	6	25
o-Xylene	<0.00200	U	0.100	0.09814		mg/L		98	70 - 130	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 880-8163/57
Matrix: Water
Analysis Batch: 8163

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/22/21 15:22	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/22/21 15:22	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/22/21 15:22	1

QC Sample Results

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

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

Lab Sample ID: MB 880-8163/57
Matrix: Water
Analysis Batch: 8163

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/22/21 15:22	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/22/21 15:22	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/22/21 15:22	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/22/21 15:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*		*09/22/21 15:22*	*1*
1,4-Difluorobenzene (Surr)	*336*	*S1+*	*70 - 130*		*09/22/21 15:22*	*1*

Lab Sample ID: LCS 880-8163/52
Matrix: Water
Analysis Batch: 8163

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	0.1244		mg/L		124	70 - 130
Toluene	0.100	0.1124		mg/L		112	70 - 130
Ethylbenzene	0.100	0.1081		mg/L		108	70 - 130
m-Xylene & p-Xylene	0.200	0.2394		mg/L		120	70 - 130
o-Xylene	0.100	0.1177		mg/L		118	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*
1,4-Difluorobenzene (Surr)	*306*	*S1+*	*70 - 130*

Lab Sample ID: LCSD 880-8163/53
Matrix: Water
Analysis Batch: 8163

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	0.09505	*1	mg/L		95	70 - 130	27	20
Toluene	0.100	0.1028		mg/L		103	70 - 130	9	20
Ethylbenzene	0.100	0.09797		mg/L		98	70 - 130	10	20
m-Xylene & p-Xylene	0.200	0.2135		mg/L		107	70 - 130	11	20
o-Xylene	0.100	0.1050		mg/L		105	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*
1,4-Difluorobenzene (Surr)	*197*	*S1+*	*70 - 130*

Lab Sample ID: 890-1276-H-1 MS
Matrix: Water
Analysis Batch: 8163

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	<0.00200	U *1	0.100	0.1175		mg/L		118	70 - 130
Toluene	0.000414	J F1	0.100	0.1269		mg/L		126	70 - 130
Ethylbenzene	0.000933	J	0.100	0.1220		mg/L		121	70 - 130
m-Xylene & p-Xylene	0.000868	J F1	0.200	0.2728	F1	mg/L		136	70 - 130

QC Sample Results

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

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

Lab Sample ID: 890-1276-H-1 MS
Matrix: Water
Analysis Batch: 8163

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		
o-Xylene	<0.00200	U F1	0.100	0.1313	F1	mg/L		131	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*141*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*256*	*S1+*	*70 - 130*

Lab Sample ID: 890-1276-H-1 MSD
Matrix: Water
Analysis Batch: 8163

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	<0.00200	U *1	0.100	0.1227		mg/L		123	70 - 130	4	25
Toluene	0.000414	J F1	0.100	0.1359	F1	mg/L		135	70 - 130	7	25
Ethylbenzene	0.000933	J	0.100	0.1304		mg/L		129	70 - 130	7	25
m-Xylene & p-Xylene	0.000868	J F1	0.200	0.2913	F1	mg/L		145	70 - 130	7	25
o-Xylene	<0.00200	U F1	0.100	0.1392	F1	mg/L		139	70 - 130	6	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*140*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*314*	*S1+*	*70 - 130*

QC Association Summary

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

GC VOA

Prep Batch: 8138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8138/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 8153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1264-1	MW-6A	Total/NA	Water	8021B	
890-1264-2	MW-8A	Total/NA	Water	8021B	
890-1264-3	MW-9A	Total/NA	Water	8021B	
890-1264-4	MW-10A	Total/NA	Water	8021B	
890-1264-5	MW-13A	Total/NA	Water	8021B	
890-1264-6	MW-14A	Total/NA	Water	8021B	
890-1264-7	MW-15A	Total/NA	Water	8021B	
890-1264-8	MW-16A	Total/NA	Water	8021B	
890-1264-9	MW-17A	Total/NA	Water	8021B	
890-1264-10	MW-18A	Total/NA	Water	8021B	
890-1264-11	MW-20	Total/NA	Water	8021B	
890-1264-12	MW-21	Total/NA	Water	8021B	
MB 880-8153/8	Method Blank	Total/NA	Water	8021B	
LCS 880-8153/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-8153/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1264-1 MS	MW-6A	Total/NA	Water	8021B	
890-1264-1 MSD	MW-6A	Total/NA	Water	8021B	

Analysis Batch: 8163

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1264-2	MW-8A	Total/NA	Water	8021B	
MB 880-8138/5-A	Method Blank	Total/NA	Water	8021B	8138
MB 880-8163/57	Method Blank	Total/NA	Water	8021B	
LCS 880-8163/52	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-8163/53	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1276-H-1 MS	Matrix Spike	Total/NA	Water	8021B	
890-1276-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Lab Chronicle

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Client Sample ID: MW-6A
Date Collected: 09/15/21 12:00
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 20:04	KL	XEN MID

Client Sample ID: MW-8A
Date Collected: 09/15/21 13:10
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 20:31	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	8163	09/22/21 16:15	KL	XEN MID

Client Sample ID: MW-9A
Date Collected: 09/15/21 11:18
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 20:59	KL	XEN MID

Client Sample ID: MW-10A
Date Collected: 09/15/21 10:50
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 21:27	KL	XEN MID

Client Sample ID: MW-13A
Date Collected: 09/15/21 12:50
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 21:55	KL	XEN MID

Client Sample ID: MW-14A
Date Collected: 09/15/21 13:20
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 22:21	KL	XEN MID

Client Sample ID: MW-15A
Date Collected: 09/15/21 12:45
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 22:47	KL	XEN MID

Lab Chronicle

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Client Sample ID: MW-16A
Date Collected: 09/15/21 12:50
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 23:12	KL	XEN MID

Client Sample ID: MW-17A
Date Collected: 09/15/21 15:08
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/20/21 23:38	KL	XEN MID

Client Sample ID: MW-18A
Date Collected: 09/15/21 14:50
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/21/21 01:45	KL	XEN MID

Client Sample ID: MW-20
Date Collected: 09/15/21 13:45
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/21/21 02:11	KL	XEN MID

Client Sample ID: MW-21
Date Collected: 09/15/21 14:30
Date Received: 09/16/21 15:24

Lab Sample ID: 890-1264-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/21/21 02:37	KL	XEN MID

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

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
8021B		Water	Total BTEX

Method Summary

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Talon/LPE
Project/Site: C.S. Caylor (Caylor)

Job ID: 890-1264-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1264-1	MW-6A	Water	09/15/21 12:00	09/16/21 15:24	N/A
890-1264-2	MW-8A	Water	09/15/21 13:10	09/16/21 15:24	N/A
890-1264-3	MW-9A	Water	09/15/21 11:18	09/16/21 15:24	N/A
890-1264-4	MW-10A	Water	09/15/21 10:50	09/16/21 15:24	N/A
890-1264-5	MW-13A	Water	09/15/21 12:50	09/16/21 15:24	N/A
890-1264-6	MW-14A	Water	09/15/21 13:20	09/16/21 15:24	N/A
890-1264-7	MW-15A	Water	09/15/21 12:45	09/16/21 15:24	N/A
890-1264-8	MW-16A	Water	09/15/21 12:50	09/16/21 15:24	N/A
890-1264-9	MW-17A	Water	09/15/21 15:08	09/16/21 15:24	N/A
890-1264-10	MW-18A	Water	09/15/21 14:50	09/16/21 15:24	N/A
890-1264-11	MW-20	Water	09/15/21 13:45	09/16/21 15:24	N/A
890-1264-12	MW-21	Water	09/15/21 14:30	09/16/21 15:24	N/A

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Chain of Custody

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

Work Order No: _____

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Project Manager:	D.Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	ATTN: Camille Bryant
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City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575.746.8768	Email:	dadkins@talonlpe.com

Work Order Comments

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

Project Name:	C.S. Caylor (Caylor)	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	M.Collier/D.Winchell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS # 2002-10250		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	NM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	1.2
Total Containers:		Corrected Temperature:	1.0

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	ANALYSIS REQUEST	Sample Comments
MW-6A	GW	9-15-21	12:00pm	N/A	Grab	3		X		Email Analyticals to:
MW-8A			1:10pm							CJBryant@paalp.com
MW-9A			11:18am							ALGroves@paalp.com
MW-10A			10:50am							Maocho@paalp.com
MW-13A			12:50pm							
MW-14A			1:20pm							
MW-15A			12:45pm							
MW-16A			12:50pm							
MW-17A			3:08pm							
MW-18A			2:50pm							

890-1264 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 Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed ~~TCLP / SPLP 6010~~: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9-16-21 1524			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

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Project Manager:	D.Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	ATTN: Camille Bryant
Address:	408 W. Texas Ave.	Address:	SRS # 2002-10250
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	
Phone:	575.746.8768	Email:	dadkins@talonlpe.com

Work Order Comments

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

Project Name:	C.S. Caylor (Caylor)	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	M.Collier/D.Winchell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS # 2002-10250		

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Samples Received Intact:	Yes No	Thermometer ID:		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	Pg1	
Sample Custody Seals:	Yes No N/A	Temperature Reading:		
Total Containers:		Corrected Temperature:		

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	Sample Comments
MW-20	GW	9-15-21	1:45pm	N/A	Grab	3		X	Email Analyticals to:
MW-21	1	1	2:30pm	1	1	1	1	1	CJBryant@paalp.com
									ALGroves@paalp.com
									Maocho@paalp.com

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		9.16.21 1524	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-411 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 890-1264-1
Address: 1211 W Florida Ave	Due Date Requested: 9/22/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: C S Caylor (Caylor)	Project #: 89000047			
Site	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5030B BTEX	Total Number of containers	Special Instructions/Note
			Preservation Code:						
MW-6A (890-1264-1)	9/15/21	12 00 Mountain		Water			X	3	
MW-8A (890-1264-2)	9/15/21	13 10 Mountain		Water			X	3	
MW-9A (890-1264-3)	9/15/21	11 18 Mountain		Water			X	3	
MW-10A (890-1264-4)	9/15/21	10 50 Mountain		Water			X	3	
MW-13A (890-1264-5)	9/15/21	12 50 Mountain		Water			X	3	
MW-14A (890-1264-6)	9/15/21	13 20 Mountain		Water			X	3	
MW-15A (890-1264-7)	9/15/21	12 45 Mountain		Water			X	3	
MW-16A (890-1264-8)	9/15/21	12 50 Mountain		Water			X	3	
MW-17A (890-1264-9)	9/15/21	15 08 Mountain		Water			X	3	

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

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

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by: Cloe Cuy 9.17.21	Date/Time	Company	Received by	Date/Time 9/18/21 11:00	Company Xenco
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company

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

Ver: 06/08/2021

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-411 2
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 890-1264-1
Address: 1211 W Florida Ave ,	Due Date Requested: 9/22/2021			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: C S Caylor (Caylor)	Project #: 89000047			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/5030B BTEX	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-18A (890-1264-10)	9/15/21	14 50 Mountain		Water			X	3	
MW-20 (890-1264-11)	9/15/21	13 45 Mountain		Water			X	3	
MW-21 (890-1264-12)	9/15/21	14 30 Mountain		Water			X	3	

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

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

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by: Cue Cat 9.17.21	Date/Time	Company	Received by:	Date/Time: 9/18/21 11 00	Company: Xenco
Relinquished by:	Date/Time.	Company	Received by:	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

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

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-1264-1
SDG Number: Lea County NM

Login Number: 1264
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, 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: 890-1264-1
SDG Number: Lea County NM

Login Number: 1264
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland
List Creation: 09/18/21 01:37 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1343-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: CS CAYLOR

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

Attn: David Adkins

JKRAMER

Authorized for release by:
10/7/2021 10:00:15 PM

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

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

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

Client: Talon/LPE
Project/Site: CS CAYLOR

Laboratory Job ID: 890-1343-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: CS CAYLOR

Job ID: 890-1343-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Talon/LPE
Project/Site: CS CAYLOR

Job ID: 890-1343-1
SDG: Lea County

Job ID: 890-1343-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1343-1

Receipt
The sample was received on 9/30/2021 2:57 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.8°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-8777 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: Talon/LPE
Project/Site: CS CAYLOR

Job ID: 890-1343-1
SDG: Lea County

Client Sample ID: MW-11A

Date Collected: 09/30/21 08:30
Date Received: 09/30/21 14:57

Lab Sample ID: 890-1343-1

Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.00483**		0.00200	0.000408	mg/L			10/04/21 13:56	1
Toluene	**0.000518**	**J**	0.00200	0.000367	mg/L			10/04/21 13:56	1
Ethylbenzene	**0.000787**	**J**	0.00200	0.000657	mg/L			10/04/21 13:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			10/04/21 13:56	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			10/04/21 13:56	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			10/04/21 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*142*	*S1+*	*70 - 130*		*10/04/21 13:56*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*		*10/04/21 13:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.00614**		0.00200	0.00100	mg/L			10/05/21 09:19	1

Surrogate Summary

Client: Talon/LPE
Project/Site: CS CAYLOR

Job ID: 890-1343-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)										
890-1342-A-1 MS	Matrix Spike	122	106										
890-1342-A-1 MSD	Matrix Spike Duplicate	118	103										
890-1343-1	MW-11A	142 S1+	102										
LCS 880-8777/3	Lab Control Sample	118	101										
LCSD 880-8777/4	Lab Control Sample Dup	116	84										
MB 880-8777/8	Method Blank	72	10 S1-										

Surrogate Legend

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

QC Sample Results

Client: Talon/LPE
Project/Site: CS CAYLOR

Job ID: 890-1343-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8777/8
Matrix: Water
Analysis Batch: 8777

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			10/04/21 12:35	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			10/04/21 12:35	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			10/04/21 12:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			10/04/21 12:35	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			10/04/21 12:35	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			10/04/21 12:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*70 - 130*		*10/04/21 12:35*	*1*
1,4-Difluorobenzene (Surr)	*10*	*S1-*	*70 - 130*		*10/04/21 12:35*	*1*

Lab Sample ID: LCS 880-8777/3
Matrix: Water
Analysis Batch: 8777

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	0.09934		mg/L		99	70 - 130		
Toluene			0.100	0.1061		mg/L		106	70 - 130		
Ethylbenzene			0.100	0.1006		mg/L		101	70 - 130		
m-Xylene & p-Xylene			0.200	0.2191		mg/L		110	70 - 130		
o-Xylene			0.100	0.1080		mg/L		108	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 880-8777/4
Matrix: Water
Analysis Batch: 8777

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	0.08411		mg/L		84	70 - 130	17	20
Toluene			0.100	0.09684		mg/L		97	70 - 130	9	20
Ethylbenzene			0.100	0.09010		mg/L		90	70 - 130	11	20
m-Xylene & p-Xylene			0.200	0.1935		mg/L		97	70 - 130	12	20
o-Xylene			0.100	0.09646		mg/L		96	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*

Lab Sample ID: 890-1342-A-1 MS
Matrix: Water
Analysis Batch: 8777

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	<0.00200	U	0.100	0.1109		mg/L		111	70 - 130		
Toluene	<0.00200	U	0.100	0.1194		mg/L		119	70 - 130		

QC Sample Results

Client: Talon/LPE
Project/Site: CS CAYLOR

Job ID: 890-1343-1
SDG: Lea County

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

Lab Sample ID: 890-1342-A-1 MS
Matrix: Water
Analysis Batch: 8777

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	<0.00200	U	0.100	0.1132		mg/L		113	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2468		mg/L		123	70 - 130
o-Xylene	<0.00200	U	0.100	0.1218		mg/L		122	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 890-1342-A-1 MSD
Matrix: Water
Analysis Batch: 8777

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	<0.00200	U	0.100	0.1151		mg/L		115	70 - 130	4	25
Toluene	<0.00200	U	0.100	0.1264		mg/L		126	70 - 130	6	25
Ethylbenzene	<0.00200	U	0.100	0.1189		mg/L		119	70 - 130	5	25
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2579		mg/L		129	70 - 130	4	25
o-Xylene	<0.00200	U	0.100	0.1285		mg/L		129	70 - 130	5	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

QC Association Summary

Client: Talon/LPE
Project/Site: CS CAYLOR

Job ID: 890-1343-1
SDG: Lea County

GC VOA

Analysis Batch: 8777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1343-1	MW-11A	Total/NA	Water	8021B	
MB 880-8777/8	Method Blank	Total/NA	Water	8021B	
LCS 880-8777/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-8777/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1342-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
890-1342-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

Analysis Batch: 8887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1343-1	MW-11A	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Talon/LPE
Project/Site: CS CAYLOR

Job ID: 890-1343-1
SDG: Lea County

Client Sample ID: MW-11A

Date Collected: 09/30/21 08:30
Date Received: 09/30/21 14:57

Lab Sample ID: 890-1343-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8777	10/04/21 13:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8887	10/05/21 09:19	MR	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: CS CAYLOR

Job ID: 890-1343-1
SDG: Lea County

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Method Summary

Client: Talon/LPE
Project/Site: CS CAYLOR

Job ID: 890-1343-1
SDG: Lea County

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

Protocol References:

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Talon/LPE
Project/Site: CS CAYLOR

Job ID: 890-1343-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1343-1	MW-11A	Water	09/30/21 08:30	09/30/21 14:57

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

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

Work Order Comments

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

Project Name:	CS Caylor	Turn Around	
Project Number:		☑ Routine ☐ Rush	
Project Location:	Lea County	Due Date:	
Sampler's Name:	Roy Bell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2002-10250		

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	NM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	4.0
Total Containers:		Corrected Temperature:	3.8

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: BTEX 8021B	Sample Comments
MW-11A	GW	9/30/21	8:30	N/A		3	X	Email Analyticals to: CJBryant@paalp.com ALGroves@paalp.com Maochoa@paalp.com

890-1343 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 Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Roy Bell		9.30.21 1457	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-1343-1
SDG Number: Lea County

Login Number: 1343
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

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: 890-1343-1
SDG Number: Lea County

Login Number: 1343
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Xenco, Midland
List Creation: 10/04/21 03:44 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1712-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: CS Caylor

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

Attn: David Adkins

JKRAMER

Authorized for release by:
12/21/2021 6:34:08 PM

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

Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 890-1712-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
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: 890-1712-1
SDG: Lea County

Job ID: 890-1712-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1712-1

Receipt
The samples were received on 12/14/2021 1:45 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 14.0°C

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-14907/8). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-14907 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Client Sample ID: MW-20

Lab Sample ID: 890-1712-1
Date Collected: 12/14/21 08:00
Matrix: Water
Date Received: 12/14/21 13:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0991**	**F1**	0.00200	0.000408	mg/L			12/16/21 12:51	1
Toluene	**0.00104**	**J**	0.00200	0.000367	mg/L			12/16/21 12:51	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 12:51	1
m-Xylene & p-Xylene	**0.000979**	**J**	0.00400	0.000629	mg/L			12/16/21 12:51	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 12:51	1
Xylenes, Total	**0.000979**	**J**	0.00400	0.000642	mg/L			12/16/21 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*12/16/21 12:51*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*		*12/16/21 12:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.101**		0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-17A

Lab Sample ID: 890-1712-2
Date Collected: 12/14/21 08:30
Matrix: Water
Date Received: 12/14/21 13:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 13:18	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 13:18	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 13:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 13:18	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 13:18	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*12/16/21 13:18*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*		*12/16/21 13:18*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-16A

Lab Sample ID: 890-1712-3
Date Collected: 12/14/21 09:00
Matrix: Water
Date Received: 12/14/21 13:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 13:44	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 13:44	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 13:44	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 13:44	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*12/16/21 13:44*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*12/16/21 13:44*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Client Sample ID: MW-16A
Lab Sample ID: 890-1712-3
Date Collected: 12/14/21 09:00
Matrix: Water
Date Received: 12/14/21 13:45

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-15A
Lab Sample ID: 890-1712-4
Date Collected: 12/14/21 09:30
Matrix: Water
Date Received: 12/14/21 13:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 14:11	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 14:11	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 14:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 14:11	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 14:11	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*12/16/21 14:11*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*12/16/21 14:11*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-14A
Lab Sample ID: 890-1712-5
Date Collected: 12/14/21 10:00
Matrix: Water
Date Received: 12/14/21 13:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 14:37	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 14:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 14:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 14:37	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 14:37	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*12/16/21 14:37*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*		*12/16/21 14:37*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-13A
Lab Sample ID: 890-1712-6
Date Collected: 12/14/21 11:00
Matrix: Water
Date Received: 12/14/21 13:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 15:03	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 15:03	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Client Sample ID: MW-13A

Lab Sample ID: 890-1712-6
Matrix: Water
Date Collected: 12/14/21 11:00
Date Received: 12/14/21 13:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 15:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 15:03	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 15:03	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*12/16/21 15:03*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*		*12/16/21 15:03*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-18A

Lab Sample ID: 890-1712-7
Matrix: Water
Date Collected: 12/14/21 11:30
Date Received: 12/14/21 13:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 15:30	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 15:30	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 15:30	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 15:30	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 15:30	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*12/16/21 15:30*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*12/16/21 15:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-21

Lab Sample ID: 890-1712-8
Matrix: Water
Date Collected: 12/14/21 11:45
Date Received: 12/14/21 13:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 15:56	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 15:56	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 15:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 15:56	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 15:56	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*12/16/21 15:56*	*1*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*		*12/16/21 15:56*	*1*

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Client Sample ID: MW-21
Date Collected: 12/14/21 11:45
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-8
Matrix: Water

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-10A
Date Collected: 12/14/21 08:50
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-9
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 18:35	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 18:35	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 18:35	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 18:35	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 18:35	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 18:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*12/16/21 18:35*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*		*12/16/21 18:35*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-6A
Date Collected: 12/14/21 10:36
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-10
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 19:01	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 19:01	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 19:01	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 19:01	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 19:01	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*12/16/21 19:01*	*1*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*		*12/16/21 19:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Client Sample ID: MW-11A
Date Collected: 12/14/21 12:06
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-11
Matrix: Water

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 19:27	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 19:27	1

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Client Sample ID: MW-11A

Date Collected: 12/14/21 12:06
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 19:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 19:27	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 19:27	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 19:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*12/16/21 19:27*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*		*12/16/21 19:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/21/21 14:36	1

Surrogate Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
890-1712-1	MW-20	96	87										
890-1712-1 MS	MW-20	105	103										
890-1712-1 MSD	MW-20	97	94										
890-1712-2	MW-17A	99	96										
890-1712-3	MW-16A	103	99										
890-1712-4	MW-15A	97	98										
890-1712-5	MW-14A	94	94										
890-1712-6	MW-13A	100	95										
890-1712-7	MW-18A	104	98										
890-1712-8	MW-21	101	97										
890-1712-9	MW-10A	112	86										
890-1712-10	MW-6A	103	99										
890-1712-11	MW-11A	104	98										
LCS 880-14907/3	Lab Control Sample	85	100										
LCSD 880-14907/4	Lab Control Sample Dup	93	94										
MB 880-14907/8	Method Blank	56 S1-	85										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14907/8
Matrix: Water
Analysis Batch: 14907

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/16/21 12:24	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/16/21 12:24	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/16/21 12:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/16/21 12:24	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/16/21 12:24	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/16/21 12:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*56*	*S1-*	*70 - 130*		*12/16/21 12:24*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*		*12/16/21 12:24*	*1*

Lab Sample ID: LCS 880-14907/3
Matrix: Water
Analysis Batch: 14907

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	0.1048		mg/L		105	70 - 130		
Toluene			0.100	0.08851		mg/L		89	70 - 130		
Ethylbenzene			0.100	0.09043		mg/L		90	70 - 130		
m-Xylene & p-Xylene			0.200	0.1831		mg/L		92	70 - 130		
o-Xylene			0.100	0.08885		mg/L		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: LCSD 880-14907/4
Matrix: Water
Analysis Batch: 14907

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	0.1062		mg/L		106	70 - 130	1	20
Toluene			0.100	0.1042		mg/L		104	70 - 130	16	20
Ethylbenzene			0.100	0.09695		mg/L		97	70 - 130	7	20
m-Xylene & p-Xylene			0.200	0.1943		mg/L		97	70 - 130	6	20
o-Xylene			0.100	0.09940		mg/L		99	70 - 130	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: 890-1712-1 MS
Matrix: Water
Analysis Batch: 14907

Client Sample ID: MW-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	0.0991	F1	0.100	0.2382	F1	mg/L		139	70 - 130		
Toluene	0.00104	J	0.100	0.1183		mg/L		117	70 - 130		

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

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

Lab Sample ID: 890-1712-1 MS
Matrix: Water
Analysis Batch: 14907

Client Sample ID: MW-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.100	0.1068		mg/L		107	70 - 130
m-Xylene & p-Xylene	0.000979	J	0.200	0.2132		mg/L		106	70 - 130
o-Xylene	<0.00200	U	0.100	0.1066		mg/L		107	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-1712-1 MSD
Matrix: Water
Analysis Batch: 14907

Client Sample ID: MW-20
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0991	F1	0.100	0.2153		mg/L		116	70 - 130	10	25
Toluene	0.00104	J	0.100	0.1144		mg/L		113	70 - 130	3	25
Ethylbenzene	<0.00200	U	0.100	0.1035		mg/L		103	70 - 130	3	25
m-Xylene & p-Xylene	0.000979	J	0.200	0.2080		mg/L		104	70 - 130	2	25
o-Xylene	<0.00200	U	0.100	0.1054		mg/L		105	70 - 130	1	25

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

GC VOA

Analysis Batch: 14907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1712-1	MW-20	Total/NA	Water	8021B	
890-1712-2	MW-17A	Total/NA	Water	8021B	
890-1712-3	MW-16A	Total/NA	Water	8021B	
890-1712-4	MW-15A	Total/NA	Water	8021B	
890-1712-5	MW-14A	Total/NA	Water	8021B	
890-1712-6	MW-13A	Total/NA	Water	8021B	
890-1712-7	MW-18A	Total/NA	Water	8021B	
890-1712-8	MW-21	Total/NA	Water	8021B	
890-1712-9	MW-10A	Total/NA	Water	8021B	
890-1712-10	MW-6A	Total/NA	Water	8021B	
890-1712-11	MW-11A	Total/NA	Water	8021B	
MB 880-14907/8	Method Blank	Total/NA	Water	8021B	
LCS 880-14907/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-14907/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1712-1 MS	MW-20	Total/NA	Water	8021B	
890-1712-1 MSD	MW-20	Total/NA	Water	8021B	

Analysis Batch: 15276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1712-1	MW-20	Total/NA	Water	Total BTEX	
890-1712-2	MW-17A	Total/NA	Water	Total BTEX	
890-1712-3	MW-16A	Total/NA	Water	Total BTEX	
890-1712-4	MW-15A	Total/NA	Water	Total BTEX	
890-1712-5	MW-14A	Total/NA	Water	Total BTEX	
890-1712-6	MW-13A	Total/NA	Water	Total BTEX	
890-1712-7	MW-18A	Total/NA	Water	Total BTEX	
890-1712-8	MW-21	Total/NA	Water	Total BTEX	
890-1712-9	MW-10A	Total/NA	Water	Total BTEX	
890-1712-10	MW-6A	Total/NA	Water	Total BTEX	
890-1712-11	MW-11A	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Client Sample ID: MW-20
Date Collected: 12/14/21 08:00
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 12:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-17A
Date Collected: 12/14/21 08:30
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 13:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-16A
Date Collected: 12/14/21 09:00
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 13:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-15A
Date Collected: 12/14/21 09:30
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 14:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-14A
Date Collected: 12/14/21 10:00
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 14:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-13A
Date Collected: 12/14/21 11:00
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 15:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Client Sample ID: MW-18A
Date Collected: 12/14/21 11:30
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 15:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-21
Date Collected: 12/14/21 11:45
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 15:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-10A
Date Collected: 12/14/21 08:50
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 18:35	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-6A
Date Collected: 12/14/21 10:36
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 19:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Client Sample ID: MW-11A
Date Collected: 12/14/21 12:06
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1712-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	14907	12/16/21 19:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			15276	12/21/21 14:36	AJ	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

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

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Method Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

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

Protocol References:

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1712-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1712-1	MW-20	Water	12/14/21 08:00	12/14/21 13:45
890-1712-2	MW-17A	Water	12/14/21 08:30	12/14/21 13:45
890-1712-3	MW-16A	Water	12/14/21 09:00	12/14/21 13:45
890-1712-4	MW-15A	Water	12/14/21 09:30	12/14/21 13:45
890-1712-5	MW-14A	Water	12/14/21 10:00	12/14/21 13:45
890-1712-6	MW-13A	Water	12/14/21 11:00	12/14/21 13:45
890-1712-7	MW-18A	Water	12/14/21 11:30	12/14/21 13:45
890-1712-8	MW-21	Water	12/14/21 11:45	12/14/21 13:45
890-1712-9	MW-10A	Water	12/14/21 08:50	12/14/21 13:45
890-1712-10	MW-6A	Water	12/14/21 10:36	12/14/21 13:45
890-1712-11	MW-11A	Water	12/14/21 12:06	12/14/21 13:45

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Chain of Custody

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

Work Order No: _____

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

Work Order Comments

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

Project Name:	CS Caylor	Turn Around	
Project Number:		☒ Routine ☐ Rush	
Project Location:	Lea County	Due Date:	
Sampler's Name:	R. Bell, D. Winchell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2002-10250		

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	TWM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	14.2	
Total Containers:		Corrected Temperature:	14.0	

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	Sample Comments
MW-20	GW	12/14/21	8:00	N/A		3		X	Email Analytical's to: CJBryant@paalp.com ALGroves@paalp.com MAOcho@paalp.com
MW-17A			8:30						
MW-16A			9:00						
MW-15A			9:30						
MW-14A			10:00						
MW-13A			11:00						
MW-18A			11:30						
MW-21			11:45						
MW-10A			8:50						
MW-6A			10:36						

890-1712-02 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 Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12.14.21 1845	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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Chain of Custody

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

Work Order No: _____

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

Work Order Comments

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

Project Name:	CS Caylor	Turn Around	
Project Number:		☒ Routine ☐ Rush	
Project Location:	Lea County	Due Date:	
Sampler's Name:	R. Bell, D. Winchell	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	SRS# 2002-10250		

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	Sample Comments
MW-11A	GW	12/14/21	12:06	N/A		3		X	Email Analytical to: CJBryant@paalp.com ALGroves@paalp.com MAOchoa@paalp.com

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12-14-21 1345	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-546 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 890-1712-1
Address: 1211 W Florida Ave, ,	Due Date Requested: 12/20/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: CS Caylor	Project #: 89000047			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/6030B BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-20 (890-1712-1)	12/14/21	08 00 Mountain		Water			X	X	3	
MW-17A (890-1712-2)	12/14/21	08 30 Mountain		Water			X	X	3	
MW-16A (890-1712-3)	12/14/21	09 00 Mountain		Water			X	X	3	
MW-15A (890-1712-4)	12/14/21	09 30 Mountain		Water			X	X	3	
MW-14A (890-1712-5)	12/14/21	10 00 Mountain		Water			X	X	3	
MW-13A (890-1712-6)	12/14/21	11 00 Mountain		Water			X	X	3	
MW-18A (890-1712-7)	12/14/21	11 30 Mountain		Water			X	X	3	
MW-21 (890-1712-8)	12/14/21	11 45 Mountain		Water			X	X	3	
MW-10A (890-1712-9)	12/14/21	08 50 Mountain		Water			X	X	3	

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

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

Empty Kit Relinquished by	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: 12-14-21	12-15-21 12 56				
Relinquished by	Date/Time.	Company	Received by	Date/Time:	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact. Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks. 4.6/4.7 .10 IR8

Ver: 06/08/2021

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

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer, Jessica	Carrier Tracking No(s)	COC No: 890-546 2
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Texas		Job #: 890-1712-1
Address: 1211 W Florida Ave	Due Date Requested: 12/20/2021			
City: Midland	TAT Requested (days):			
State, Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: CS Caylor	Project #: 89000047			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

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

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8021B/6030B BTEX	Total_BTEX_GCV	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
MW-6A (890-1712-10)	12/14/21	10 36 Mountain		Water			X	X	3	
MW-11A (890-1712-11)	12/14/21	12 06 Mountain		Water			X	X	3	

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

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

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature] 12-14-21	12-15-21 12:56		[signature] Patricia R		
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time:	Company	Received by	Date/Time	Company

Custody Seals Intact. ∆ Yes ∆ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks.
		4.6/4.7 .10 IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-1712-1
SDG Number: Lea County

Login Number: 1712
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, 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: 890-1712-1
SDG Number: Lea County

Login Number: 1712
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Xenco, Midland
List Creation: 12/15/21 01:04 PM

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

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1710-1
Laboratory Sample Delivery Group: Lea County
Client Project/Site: CS Caylor

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

Attn: David Adkins

JKRAMER

Authorized for release by:
12/23/2021 8:50:18 PM

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

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

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

Client: Talon/LPE
Project/Site: CS Caylor

Laboratory Job ID: 890-1710-1
SDG: Lea County

Table of Contents

Definitions/Glossary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Qualifiers

GC VOA

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

HPLC/IC

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

Metals

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

General Chemistry

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

Glossary

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

Case Narrative

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Job ID: 890-1710-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1710-1

Receipt
The samples were received on 12/14/2021 1:45 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 14.2°C

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

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

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

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

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Client Sample ID: MW-10A

Lab Sample ID: 890-1710-1
Matrix: Water
Date Collected: 12/14/21 08:50
Date Received: 12/14/21 13:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	**0.796**	**J**	5.00	0.453	ug/L			12/16/21 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*112*		*70 - 130*		*12/16/21 18:13*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.979**		0.100	0.0391	mg/L			12/15/21 18:25	1
Sulfate	**52.2**		0.500	0.109	mg/L			12/15/21 18:25	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.00665**		0.00200	0.000199	mg/L		12/16/21 09:45	12/16/21 19:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**375**		4.00	4.00	mg/L			12/16/21 13:24	1
Bicarbonate Alkalinity as CaCO3	**375**		4.00	4.00	mg/L			12/16/21 13:24	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			12/16/21 13:24	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			12/16/21 13:24	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			12/16/21 13:24	1
Ferrous Iron	<0.0500	U HF	0.0500	0.0280	mg/L			12/16/21 19:48	1

Client Sample ID: MW-6A

Lab Sample ID: 890-1710-2
Matrix: Water
Date Collected: 12/14/21 10:36
Date Received: 12/14/21 13:45

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<5.00	U	5.00	0.453	ug/L			12/16/21 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*117*		*70 - 130*		*12/16/21 18:30*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**1.93**		0.100	0.0391	mg/L			12/15/21 18:38	1
Sulfate	**52.3**		0.500	0.109	mg/L			12/15/21 18:38	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.0122**		0.00200	0.000199	mg/L		12/16/21 09:45	12/16/21 19:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**254**		4.00	4.00	mg/L			12/16/21 13:41	1
Bicarbonate Alkalinity as CaCO3	**254**		4.00	4.00	mg/L			12/16/21 13:41	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			12/16/21 13:41	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			12/16/21 13:41	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			12/16/21 13:41	1
Ferrous Iron	<0.0500	U HF	0.0500	0.0280	mg/L			12/16/21 19:48	1

Client Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Client Sample ID: MW-11A

Date Collected: 12/14/21 12:06
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1710-3

Matrix: Water

Method: RSK-175 - Dissolved Gases (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<5.00	U	5.00	0.453	ug/L			12/16/21 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*113*		*70 - 130*		*12/16/21 18:46*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**1.63**		0.100	0.0391	mg/L			12/15/21 18:51	1
Sulfate	**89.5**		0.500	0.109	mg/L			12/15/21 18:51	1

Method: 6020A - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**0.0168**		0.00200	0.000199	mg/L		12/16/21 09:45	12/16/21 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Alkalinity	**243**		4.00	4.00	mg/L			12/16/21 13:32	1
Bicarbonate Alkalinity as CaCO3	**243**		4.00	4.00	mg/L			12/16/21 13:32	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			12/16/21 13:32	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			12/16/21 13:32	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			12/16/21 13:32	1
Ferrous Iron	<0.0500	U HF	0.0500	0.0280	mg/L			12/16/21 19:48	1

Surrogate Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	fluoroethar (70-130)							
890-1710-1	MW-10A	112							
890-1710-2	MW-6A	117							
890-1710-3	MW-11A	113							
LCS 860-34534/7	Lab Control Sample	123							
LCSD 860-34534/8	Lab Control Sample Dup	116							
MB 860-34534/6	Method Blank	129							

Surrogate Legend

Trifluoroethane = Trifluoroethane

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Method: RSK-175 - Dissolved Gases (GC)

Lab Sample ID: MB 860-34534/6
Matrix: Water
Analysis Batch: 34534

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methane	<5.00	U	5.00	0.453	ug/L			12/16/21 12:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Trifluoroethane	*129*		*70 - 130*		*12/16/21 12:22*	*1*

Lab Sample ID: LCS 860-34534/7
Matrix: Water
Analysis Batch: 34534

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	20.67		ug/L		104	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Trifluoroethane	*123*		*70 - 130*

Lab Sample ID: LCSD 860-34534/8
Matrix: Water
Analysis Batch: 34534

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methane			19.9	19.02		ug/L		96	70 - 130	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Trifluoroethane	*116*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-34288/3
Matrix: Water
Analysis Batch: 34288

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<0.500	U	0.500	0.109	mg/L			12/15/21 04:55	1

Lab Sample ID: LCS 860-34288/4
Matrix: Water
Analysis Batch: 34288

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	9.856		mg/L		99	90 - 110		

Lab Sample ID: LCSD 860-34288/5
Matrix: Water
Analysis Batch: 34288

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	9.653		mg/L		97	90 - 110	2	20

Eurofins Xenco, Carlsbad

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-9312-A-1 MS
Matrix: Water
Analysis Batch: 34288

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
Sulfate	2.23		10.0	11.93		mg/L		97	90 - 110

Lab Sample ID: 880-9312-A-1 MSD
Matrix: Water
Analysis Batch: 34288

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
Sulfate	2.23		10.0	11.94		mg/L		97	90 - 110	0	20

Lab Sample ID: MB 860-34289/3
Matrix: Water
Analysis Batch: 34289

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	<0.100	U	0.100	0.0391	mg/L			12/15/21 04:55	1

Lab Sample ID: LCS 860-34289/4
Matrix: Water
Analysis Batch: 34289

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	9.874		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-34289/5
Matrix: Water
Analysis Batch: 34289

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	9.682		mg/L		97	80 - 120	2	20

Lab Sample ID: 880-9312-A-1 MS
Matrix: Water
Analysis Batch: 34289

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
Nitrate as N	0.136		10.0	9.483		mg/L		93	80 - 120

Lab Sample ID: 880-9312-A-1 MSD
Matrix: Water
Analysis Batch: 34289

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
Nitrate as N	0.136		10.0	9.475		mg/L		93	80 - 120	0	15

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 860-34529/1-A
Matrix: Water
Analysis Batch: 34680

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 34529

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<0.00200	U	0.00200	0.000199	mg/L		12/16/21 09:45	12/16/21 18:05	1

Lab Sample ID: LCS 860-34529/2-A
Matrix: Water
Analysis Batch: 34680

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 34529

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.100	0.1011		mg/L		101	80 - 120

Lab Sample ID: LCSD 860-34529/3-A
Matrix: Water
Analysis Batch: 34680

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 34529

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	0.100	0.09991		mg/L		100	80 - 120	1	20

Lab Sample ID: 840-664-A-1-B MS
Matrix: Water
Analysis Batch: 34680

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 34529

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Manganese	0.0123		0.100	0.1092		mg/L		97	75 - 125

Lab Sample ID: 840-664-A-1-C MSD
Matrix: Water
Analysis Batch: 34680

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 34529

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Manganese	0.0123		0.100	0.1076		mg/L		95	75 - 125	1	20

Method: SM 2320B - Alkalinity

Lab Sample ID: MB 860-34642/4
Matrix: Water
Analysis Batch: 34642

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			12/16/21 12:39	1
Bicarbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			12/16/21 12:39	1
Carbonate Alkalinity as CaCO3	<4.00	U	4.00	4.00	mg/L			12/16/21 12:39	1
Hydroxide Alkalinity	<4.00	U	4.00	4.00	mg/L			12/16/21 12:39	1
Phenolphthalein Alkalinity	<4.00	U	4.00	4.00	mg/L			12/16/21 12:39	1

Lab Sample ID: LCS 860-34642/5
Matrix: Water
Analysis Batch: 34642

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Alkalinity	250	236.0		mg/L		94	85 - 115

QC Sample Results

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Method: SM 2320B - Alkalinity (Continued)

Lab Sample ID: LCSD 860-34642/6
Matrix: Water
Analysis Batch: 34642

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Alkalinity			250	238.3		mg/L		95	85 - 115	1	20

Lab Sample ID: 860-16989-A-5 DU
Matrix: Water
Analysis Batch: 34642

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Alkalinity	377			384.5		mg/L				2	20
Bicarbonate Alkalinity as CaCO3	377			384.5		mg/L				2	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 860-35548/3
Matrix: Water
Analysis Batch: 35548

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.0500	U	0.0500	0.0280	mg/L			12/16/21 19:48	1

Lab Sample ID: LCS 860-35548/4
Matrix: Water
Analysis Batch: 35548

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	0.9300		mg/L		93	75 - 125		

Lab Sample ID: LCSD 860-35548/5
Matrix: Water
Analysis Batch: 35548

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	1	25

Lab Sample ID: 890-1710-2 DU
Matrix: Water
Analysis Batch: 35548

Client Sample ID: MW-6A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	<0.0500	U HF		<0.0500	U	mg/L				NC	25

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

GC VOA

Analysis Batch: 34534

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	RSK-175	
890-1710-2	MW-6A	Total/NA	Water	RSK-175	
890-1710-3	MW-11A	Total/NA	Water	RSK-175	
MB 860-34534/6	Method Blank	Total/NA	Water	RSK-175	
LCS 860-34534/7	Lab Control Sample	Total/NA	Water	RSK-175	
LCSD 860-34534/8	Lab Control Sample Dup	Total/NA	Water	RSK-175	

HPLC/IC

Analysis Batch: 34288

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	300.0	
890-1710-2	MW-6A	Total/NA	Water	300.0	
890-1710-3	MW-11A	Total/NA	Water	300.0	
MB 860-34288/3	Method Blank	Total/NA	Water	300.0	
LCS 860-34288/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-34288/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-9312-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-9312-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Analysis Batch: 34289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	300.0	
890-1710-2	MW-6A	Total/NA	Water	300.0	
890-1710-3	MW-11A	Total/NA	Water	300.0	
MB 860-34289/3	Method Blank	Total/NA	Water	300.0	
LCS 860-34289/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 860-34289/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-9312-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-9312-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 34529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	3010A	
890-1710-2	MW-6A	Total/NA	Water	3010A	
890-1710-3	MW-11A	Total/NA	Water	3010A	
MB 860-34529/1-A	Method Blank	Total/NA	Water	3010A	
LCS 860-34529/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 860-34529/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
840-664-A-1-B MS	Matrix Spike	Total/NA	Water	3010A	
840-664-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	

Analysis Batch: 34680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	6020A	34529
890-1710-2	MW-6A	Total/NA	Water	6020A	34529
890-1710-3	MW-11A	Total/NA	Water	6020A	34529
MB 860-34529/1-A	Method Blank	Total/NA	Water	6020A	34529
LCS 860-34529/2-A	Lab Control Sample	Total/NA	Water	6020A	34529
LCSD 860-34529/3-A	Lab Control Sample Dup	Total/NA	Water	6020A	34529

QC Association Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Metals (Continued)

Analysis Batch: 34680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
840-664-A-1-B MS	Matrix Spike	Total/NA	Water	6020A	34529
840-664-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6020A	34529

General Chemistry

Analysis Batch: 34642

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	SM 2320B	
890-1710-2	MW-6A	Total/NA	Water	SM 2320B	
890-1710-3	MW-11A	Total/NA	Water	SM 2320B	
MB 860-34642/4	Method Blank	Total/NA	Water	SM 2320B	
LCS 860-34642/5	Lab Control Sample	Total/NA	Water	SM 2320B	
LCSD 860-34642/6	Lab Control Sample Dup	Total/NA	Water	SM 2320B	
860-16989-A-5 DU	Duplicate	Total/NA	Water	SM 2320B	

Analysis Batch: 35548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1710-1	MW-10A	Total/NA	Water	SM 3500 FE D	
890-1710-2	MW-6A	Total/NA	Water	SM 3500 FE D	
890-1710-3	MW-11A	Total/NA	Water	SM 3500 FE D	
MB 860-35548/3	Method Blank	Total/NA	Water	SM 3500 FE D	
LCS 860-35548/4	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
LCSD 860-35548/5	Lab Control Sample Dup	Total/NA	Water	SM 3500 FE D	
890-1710-2 DU	MW-6A	Total/NA	Water	SM 3500 FE D	

Lab Chronicle

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Client Sample ID: MW-10A
Date Collected: 12/14/21 08:50
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1710-1
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	34534	12/16/21 18:13	CZT	XEN STF
Total/NA	Analysis	300.0		1			34288	12/15/21 18:25	WP	XEN STF
Total/NA	Analysis	300.0		1			34289	12/15/21 18:25	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	34529	12/16/21 09:45	MD	XEN STF
Total/NA	Analysis	6020A		1			34680	12/16/21 19:33	DCL	XEN STF
Total/NA	Analysis	SM 2320B		1			34642	12/16/21 13:24	YGG	XEN STF
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	35548	12/16/21 19:48	CM1	XEN STF

Client Sample ID: MW-6A
Date Collected: 12/14/21 10:36
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1710-2
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	34534	12/16/21 18:30	CZT	XEN STF
Total/NA	Analysis	300.0		1			34288	12/15/21 18:38	WP	XEN STF
Total/NA	Analysis	300.0		1			34289	12/15/21 18:38	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	34529	12/16/21 09:45	MD	XEN STF
Total/NA	Analysis	6020A		1			34680	12/16/21 19:36	DCL	XEN STF
Total/NA	Analysis	SM 2320B		1			34642	12/16/21 13:41	YGG	XEN STF
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	35548	12/16/21 19:48	CM1	XEN STF

Client Sample ID: MW-11A
Date Collected: 12/14/21 12:06
Date Received: 12/14/21 13:45

Lab Sample ID: 890-1710-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	RSK-175		1	33 mL	33 mL	34534	12/16/21 18:46	CZT	XEN STF
Total/NA	Analysis	300.0		1			34288	12/15/21 18:51	WP	XEN STF
Total/NA	Analysis	300.0		1			34289	12/15/21 18:51	WP	XEN STF
Total/NA	Prep	3010A			50 mL	50 mL	34529	12/16/21 09:45	MD	XEN STF
Total/NA	Analysis	6020A		1			34680	12/16/21 19:40	DCL	XEN STF
Total/NA	Analysis	SM 2320B		1			34642	12/16/21 13:32	YGG	XEN STF
Total/NA	Analysis	SM 3500 FE D		1	25 mL	25 mL	35548	12/16/21 19:48	CM1	XEN STF

Laboratory References:

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

Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Laboratory: Eurofins Xenco, Stafford

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

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

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

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

Method Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

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

Protocol References:

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

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

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

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

Laboratory References:

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

Sample Summary

Client: Talon/LPE
Project/Site: CS Caylor

Job ID: 890-1710-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-1710-1	MW-10A	Water	12/14/21 08:50	12/14/21 13:45
890-1710-2	MW-6A	Water	12/14/21 10:36	12/14/21 13:45
890-1710-3	MW-11A	Water	12/14/21 12:06	12/14/21 13:45

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Chain of Custody

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

Work Order No: _____

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

Work Order Comments

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

Project Name:	CS Caylor	Turn Around	☒ Routine ☐ Rush
Project Number:		Due Date:	
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	D. Winchell		
PO #:	SRS# 2002-10250		

SAMPLE RECEIPT

Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	TWM009
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	14.4
Total Containers:		Corrected Temperature:	14.2

ANALYSIS REQUEST

Pres. Code

Parameters: MNA Parameters

890-1710 Chain of Custody

Preservative Codes

None: NO; DI Water: H_2O
Cool: Cool; MeOH: Me
HCL: HC; HNO_3: HN
H_2SO_4: H_2; NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	MNA Parameters
MW-10A	GW	12/14/21	8:50	N/A		7	X
MW-6A	"	"	10:36	"		7	X
MW-11A	"	"	12:06	"		7	X

Sample Comments

Email Analyticals to:
CJBryant@Paalp.com
ALGroves@Paalp.com
MaOchoa@Paalp.com

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		12-14-21 1345	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-545.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP Texas		Job #: 890-1710-1
Address: 4145 Greenbriar Dr	Due Date Requested: 12/20/2021			
City: Stafford	TAT Requested (days):			
State, Zip: TX, 77477				
Phone: 281-240-4200(Tel)	PO #:			
Email:	WO #:			
Project Name: CS Caylor	Project #: 89000047			
Site:	SSOW#:			

Analysis Requested

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

Sample Identification Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	300_ORGFM_28D/ Sulfate	300_ORGFMS/ (MOD) Nitrate	3500_FE_D/ Ferrous Iron	2320B/ Alkalinity	6020A/3010A (MOD) Manganese	RSK_176/ (MOD) Local Method							Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
MW-10A (890-1710-1)	12/14/21	08:50 Mountain		Water			X	X	X	X	X	X							7	
MW-6A (890-1710-2)	12/14/21	10:36 Mountain		Water			X	X	X	X	X	X							7	
MW-11A (890-1710-3)	12/14/21	12:06 Mountain		Water			X	X	X	X	X	X							7	

Temp: 3.0 IR ID HOU-223
C/F +0.0
Corrected Temp: 3.0

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

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

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 12/15/21 1021	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Ver 06/08/2021

Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-1710-1
SDG Number: Lea County

Login Number: 1710
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco, 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: 890-1710-1
SDG Number: Lea County

Login Number: 1710
List Number: 2
Creator: Milone, Jeancarlo

List Source: Eurofins Xenco, Stafford
List Creation: 12/15/21 04:30 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	

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 92565

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID: 34053
	Action Number: 92565
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

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