

**REVIEWED**

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## 2022 ANNUAL GROUNDWATER MONITORING REPORT

**KIMBROUGH SWEET 8"**  
**LEA COUNTY, NEW MEXICO**  
**SRS #2000—10757**  
**NMOCD REF. # AP-0029, nAPP2109529734**

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

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**MARCH 31, 2023**

Review of the 2022 Annual  
Groundwater Monitoring Report for  
Kimbrough Sweet 8" : **Content**  
**Satisfactory**

1. Continue PSH on a monthly basis by MDPE events.
2. Continue to conduct quarterly groundwater monitoring events.
3. Submit the 2023 Annual Groundwater Monitoring Report to NMOCD by or before April 1, 2024.



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

TALON/LPE PROJECT NO. 700376.050.11

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NMOCD - New Mexico Oil Conservation Division

NMSLO – New Mexico State Land Office

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## **1.0 INTRODUCTION AND OBJECTIVES**

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### **1.1 Objectives and Site Background**

The Kimbrough Sweet 8" (site) is located approximately seven (7) miles northwest of Hobbs, New Mexico in Unit G, Section 3, Township 18 South, and Range 37 East. There are no residences, groundwater wells, or surface water bodies within a 1,000-foot radius of the site. The initial release occurred from the 8-inch steel pipeline on October 25, 2000. At the time of the release, the pipeline was owned by EOTT Energy Pipeline (EOTT). 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 60 barrels (bbls) of crude oil was released and impacted approximately 15,613 square feet of surface area. Approximately 22 bbls of crude oil was recovered during initial remediation activities.

The site is situated within a physiographic region that is on the extreme southwestern 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 3,720-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 that 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 contains abundant eroded gravel to cobble size caliche fragments. Below the top soil is predominately unconsolidated sand to weakly cemented sandstone which has undergone calichification of varying extent.

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

### 1.3 Previous Environmental Investigations

Currently, a total of 17 groundwater monitor wells are in use in the vicinity of the release at the site (see Figure 1). With New Mexico Oil Conservation Division (NMOCD) approval and landowner concurrence, groundwater monitor wells (MW-1, MW-2, MW-3, and MW-4) were installed in January 2002. Groundwater monitor wells (MW-5, MW-7, MW-8, and MW-9) were installed in July 2004, and monitor wells (MW-6, MW-10, and MW-11) were installed in December 2004. Monitor wells (MW-12 and MW-13) were installed on March 11, 2009 and monitor wells (MW-14 and MW-15) were installed in January of 2011. Monitor Well MW-1 was plugged and abandoned. Replacement monitor well (MW-1A) and monitor wells (MW-16, MW-17, and MW-18) were installed in November of 2013.

Phase-separated hydrocarbon (PSH) recovery operations have been performed at the site since January 2002, initially by hand bailing. In 2007, an automated skimmer recovery system was installed at the site. In March of 2011, solar panels were installed at the site and two (2) 12-volt (12V) total fluid pumps were installed in monitor wells (MW-5 and MW-6). In November of 2011, additional 12V-powered total fluids pumps were installed in monitor wells (MW-2 and MW-11). In October 2012, an internal combustion engine (ICE) system for running pumps and vapor extraction was installed on site. There were five (5) total fluids pumps, powered by an ICE unit, in monitor wells (MW-5, MW-6, MW-7, MW-8, and MW-11) and two (2) solar powered electric pumps in monitor wells (MW-2 and MW-9) at that time. The engine for the ICE unit failed in May 2016. Operation of the ICE unit was discontinued at that time.

Beginning in June 2016, Mobile Dual-Phase Extraction (MDPE) events began and are currently conducted on a monthly basis. No other types of PSH recovery are being carried out at this site.

In August of 2018, six wells (MW-2, MW-4, MW-7, MW-8, MW-10, and MW-11) were plugged and abandoned due to decreasing groundwater levels. Five replacement wells were installed (MW-2A, MW-7A, MW-8A, MW-11A, and MW-19), and one well (MW-1A) was repaired due to vandalism.

MDPE events were conducted on a monthly basis at the site during 2022 and recovered approximately 17.02 bbls of PSH.

Historically, approximately 629.04 bbls of PSH, which consisted of 282.68 bbls of vapor phase and 346.36 bbls of liquid phase PSH, have been recovered from the site.

#### 1.4 Regulatory Framework

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

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

mg/L: milligrams per Liter

The following sections provide summaries of the groundwater monitoring activities conducted at the site as well as analytical results from each groundwater sampling event of 2022. Analytical results for the four (4) sampling events are summarized in Table 2 and Table 3 in Appendix B, and Figures 3a through 3d in Appendix A. Laboratory analytical data reports and chain of custody documentation are included in Appendix C.

## **2.0 SITE ACTIVITIES**

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The sections that follow summarize groundwater monitoring and PSH recovery activities conducted at the subject site during 2022. The primary function of groundwater monitoring is to measure the depths to fluids and to collect groundwater samples from monitor wells for laboratory analysis. The objective of groundwater monitoring is to evaluate the status of the dissolved-phase and PSH plumes in order to verify the effectiveness of the remediation system as to inhibiting plume migration, reducing the volume of PSH impacting the groundwater and determining if modifications to the remediation system would improve its performance and efficiency.

### **2.1 Groundwater Monitoring Activities**

A total of four (4) groundwater monitoring events were conducted by Talon during 2022. These events occurred in March, June, September, and December. During all of the groundwater monitoring events, the depths to fluids were measured in all of the monitoring wells using an oil/water interface probe.

During the March 2022 groundwater monitoring event all monitor wells were gauged. Ten (10) monitor wells (MW-1A, MW-7A, MW-8A, MW-12, and MW-14 through MW-19) were purged and sampled. Three (3) monitor wells (MW-2A, MW-6, and MW-11A) were not sampled due to the presence of PSH, one (1) monitor well (MW-13) did not have enough water to sample, and three (3) monitor wells (MW-3, MW-5, MW-9) were dry. Details of the gauging, purging, and sample collection activities are presented in Section 2.2 below.

During the June 2022 groundwater monitoring event all monitor wells were gauged. Seven (7) monitor wells (MW-1A, MW-7A, MW-8A, and MW-16 through MW-19) were purged and sampled. Three (3) monitor wells (MW-2A, MW-6, and MW-11A) were not sampled due to the presence of PSH, one (1) monitor well (MW-9) did not have enough water to sample, and two (2) monitor wells (MW-3 and MW-5) were dry. Four (4) monitor wells (MW-12 through MW-15) were not scheduled to be sampled. Details of the gauging, purging, and sample collection activities are presented in Section 2.2 below.

During the September 2022 groundwater monitoring event all monitor wells were gauged. Ten (10) monitor wells (MW-1A, MW-7A, MW-8A, MW-12, and MW-14 through MW-19) were purged and sampled. Three (3) monitor wells (MW-2A, MW-6 and MW-11A) were not sampled due to the presence of PSH, two (2) monitor wells (MW-9 and MW-13) did not have enough water to sample, and two (2) monitor wells (MW-3 and MW-5) were dry. Details of the gauging, purging, and sample collection activities are presented in Section 2.2 below.

During the December 2022 groundwater monitoring event all monitor wells were gauged. Seven (7) monitor wells (MW-1A, MW-7A, MW-8A, MW-16, through MW-19) were purged and sampled. Three (3) monitor wells (MW-2A, MW-6, and MW-11A) were not sampled due to the presence of PSH, one (1) monitor well (MW-9) did

not have enough water to sample, and two (2) monitor wells (MW-3 and MW-5) were dry. Four (4) monitor wells (MW-12 through MW-15) were not scheduled to be sampled. Details of the gauging, purging, and sample collection activities are presented in Section 2.2 below.

## **2.2 Groundwater Gauging, Purging, and Sample Collection Procedures**

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

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

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

The groundwater samples were maintained on ice, in the custody of Talon personnel, until they were delivered to Xenco Laboratory in Carlsbad, New Mexico for analyses. The groundwater samples collected during all four events were quantified for benzene, toluene, ethylbenzene, and xylene (BTEX) by EPA Method SW-846 8021B. The groundwater samples collected from MW-7A, MW-8A, and MW-19 during the March 2022 event were analyzed for polycyclic aromatic hydrocarbons (PAH) by EPA Method 8270C.

## **2.3 Phase Separated Hydrocarbon Recovery**

PSH recovery has been conducted at the site since 2002, initially by hand bailing. In 2007, an automated skimmer recovery system was installed at the site. In March of 2011, solar panels were installed at the site and two (2) 12-volt (12V) total fluid pumps were installed in monitor wells MW-5 and MW-6. In November of 2011, additional 12V-powered total fluids pumps were installed in monitor wells MW-2 and MW-11A. In October 2012, an ICE system for running pumps and vapor extraction was installed on site.

The system utilized five (5) pneumatic total fluid pumps in monitor wells (MW-5, MW-6, MW-7, MW-8, and MW-11A) and two (2) 12V total fluids pumps in monitor wells (MW-2 and MW-9) to recover PSH and to inhibit migration of the PSH plume. The ICE assembly consisted of pneumatic total fluid pumps combined with vapor suction.



Since there is no electricity at the site. The ICE system was powered by propane and vapors from listed wells. The 12V total fluids pumps operated off 12V batteries, which were charged by solar panels.

Fluid recovered by the pumps was retained in two (2) polyethylene tanks, a 3,000-gallon tank and a 2,500-gallon tank, that were added in 2011. The tanks were coupled together and were equipped with high-level shut-off switches to prevent overflow. In addition, the tanks were located within a secondary containment that was equipped with a polyethylene liner. The ICE system discontinued operation in May 2016.

Currently, there are no fluid pumps in use at this site. One (1) 2,500-gallon polyethylene tank is currently in use. MDPE events are conducted on a monthly basis. This system utilizes vapor pulled by vacuum combined with propane to power an internal combustion engine, which also powers a compressor and the blower used to create vacuum for vapor recovery. Compressed air from the system drives pneumatic pumps placed in the various wells containing PSH. Fluid recovered by the pumps is retained in the onsite polyethylene tank. Recovered groundwater and PSH is removed from the polyethylene tanks and transported to an NMOCD approved disposal facility, Gandy Marley, via vacuum truck at the end of the MDPE events.

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

- 1<sup>st</sup> Quarter – 2.09 bbls PSH and 157.40 bbls of groundwater
- 2<sup>nd</sup> Quarter – 3.49 bbls PSH and 126.38 bbls of groundwater
- 3<sup>rd</sup> Quarter – 5.42 bbls PSH and 106.17 bbls of groundwater
- 4<sup>th</sup> Quarter – 6.02 bbls PSH and 63.95 bbls groundwater

Twelve (12) MDPE events, in which liquid and vapor PSH were recovered, were conducted on site during 2022. The individual MDPE event recovery totals are as follows:

- January 5, 2022 – 0.33 bbls vapor, 0.36 bbls liquid
- February 24, 2022 – 0.21 bbls vapor, 0.38 bbls liquid
- March 10, 2022 – 0.45 bbls vapor, 0.36 bbls liquid
- April 7, 2022 – 0.43 bbls vapor, 0.38 bbls liquid
- May 5, 2022 – 0.10 bbls vapor, 0.48 bbls liquid
- June 5, 2022 – 1.91 bbls vapor, 0.19 bbls liquid
- July 20, 2022 – 2.22 bbls vapor, 0.38 bbls liquid
- August 4, 2022 – 0.78 bbls vapor, 0.29 bbls liquid
- September 20, 2022 – 1.37 bbls vapor, 0.38 bbls liquid
- October 18, 2022 – 1.88 bbls vapor, 0.31 bbls liquid
- November 26, 2022 – 0.77 bbls vapor, 0.76 bbls liquid
- December 19, 2022 – 1.85 bbls vapor, 0.45 bbls liquid

In 2022, an estimated total of 17.02 bbls of PSH were recovered during the MDPE events.

Historically, approximately 629.04 bbls of PSH, which consists of 282.68 bbls of vapor phase and 346.36 bbls of liquid phase PSH, have been recovered from the site.



### **3.0 GROUNDWATER ASSESSMENT AND MONITORING RESULTS**

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The results of the laboratory analyses are summarized in Table 2 – Groundwater Analytical Data - Historical in Appendix B. Laboratory analytical data reports and chains of custody documentation are provided in Appendix C. The following sections present the results from the four (4) groundwater monitoring events conducted on the first water-bearing zone underlying the site.

#### **3.1 Physical Characteristics of the First Water-Bearing Zone**

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

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

The Ogallala Aquifer is generally unconfined and the potentiometric surface mimics the topography with the regional flow direction from the northwest to the southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot with a specific yield averaging 16%. The depth to groundwater at the site ranged from 60.59 feet below ground surface (bgs) to 66.05 feet bgs and the groundwater flow direction is to the east northeast. 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- $\text{HCO}_3$ , therefore, Ogallala groundwater is considered hard. Problems with scale have occurred with residential and commercial water systems that use Ogallala groundwater and often treatment strategies are employed to reduce the effects of scale. The typical total dissolved solids of Ogallala groundwater in the Hobbs-Lovington area is generally less than 1,000 mg/L (ppm) in areas not impacted by oil-field brines. The pH of Ogallala water averages 7.3.

#### **3.2 Groundwater Gradient and Flow Direction**

The depth to fluid measurements was collected during each of the four (4) groundwater monitoring events during the year 2022. The results of the fluid level measurements are summarized in Table 1, Appendix B - Gauging and NAPL Thickness - Historical.

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 in 2022 indicate that the groundwater flow direction is generally to the east/northeast with an average gradient of 0.0027 feet per foot (ft/ft), or approximately 14.25 feet per mile. Groundwater levels at the subject site have exhibited a decrease of an average of 0.79 feet for the year 2022 that appears to be associated with a regional trend of fluctuating groundwater levels for the Ogallala Aquifer.

### **3.3 Phase Separated Hydrocarbon (PSH)**

An oil/water interface probe was used to determine the thicknesses of PSH during the four (4) groundwater monitoring events. Generally, PSH thicknesses have fluctuated from quarter to quarter during the year 2022.

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

- In March of 2022, PSH was observed in monitor wells MW-2A, MW-6 and MW-11A. PSH thickness was 0.01 in all three (3) wells.
- In June of 2022, PSH was observed in monitor wells MW-2A, MW-6, and MW-11A. PSH thickness ranged from 0.01 feet to 0.20 feet.
- In September 2022, PSH was observed in monitor wells MW-2A, MW-6 and MW-11A. PSH thickness ranged from 0.19 feet to 0.35 feet.
- In December of 2022, PSH was observed in monitor wells MW-2A, MW-6, and MW-11A. PSH thickness ranged from 0.01 feet to 0.11 feet.

PSH recovery operations have been performed at the site since 2002. A summary of the historical groundwater and PSH gauging is provided in Table 1 in Appendix B. Approximately 629.04 bbls of PSH, which consists of 282.68 bbls of vapor phase and 346.36 bbls of liquid phase PSH, have been recovered from the site to date.

### **3.4 Groundwater Sampling Results**

During the first quarter, March 2022, the following monitor wells were sampled: MW-1A, MW-7A, MW-8A, MW-12, and MW-14 through MW-19. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations were less than method detection limit (MDL) in all monitor wells. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any of the monitor wells sampled this quarter.

- Toluene concentrations were less than the laboratory MDL in all monitor wells. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled this quarter.
- Ethylbenzene concentrations were less than the laboratory MDL in all monitor wells sampled. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled this quarter.
- Xylene concentrations were less than the laboratory MDL in all monitor wells sampled except for MW-8A, which exhibited a concentration of 0.00108 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells sampled this quarter.
- Polycyclic Aromatic Hydrocarbons (PAH by EPA 8270) were added to the first quarter sampling event for MW-7A, MW-8A, and MW-19. The associated concentrations for all compounds were below the applicable NMWQCC groundwater standards.

During the June 2022 sampling event, the following wells were sampled: MW-1A, MW-7A, MW-8A, and MW-16 through MW-19. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations were less than the laboratory MDL in all wells. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any of the monitor wells sampled this quarter.
- Toluene concentrations were less than the laboratory MDL in all wells. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the laboratory MDL in all wells. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled this quarter.
- Xylene concentrations were below the laboratory MDL in all wells except MW-8A, which exhibited a concentration of 0.00114 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any of the monitor wells sampled this quarter.

During the September 2022 sampling event, the following wells were sampled: MW-1A, MW-7A, MW-8A, MW-12, and MW-14 through MW-19. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations were less than the laboratory MDL in all wells except MW-8A, which exhibited a concentration of 0.000427 mg/L. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any of the monitor wells sampled this quarter.

- Toluene concentrations were less than the laboratory MDL in all wells sampled except MW-8A, which exhibited concentration of 0.000409 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the laboratory MDL in all wells sampled except for MW-8A which exhibited a concentration of 0.00193 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled this quarter.
- Xylene concentrations were below the laboratory MDL in all wells sampled except for MW-8A, which exhibited a concentration of 0.00344 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in in any of the monitor wells sampled this quarter.

During the December 2022 sampling event, the following wells were sampled: MW-1A, MW-7A, MW-8A, and MW-16 through MW-19. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations were less than laboratory MDL in all wells except for MW-8A which exhibited a concentration of 0.000657 mg/L. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.010 mg/L in any of the monitor wells samples this quarter.
- Toluene concentrations were less than laboratory MDL in all wells except for MW-8A, which exhibited a concentration of 0.000378 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any of the monitor wells sampled this quarter.
- Ethylbenzene concentrations were less than laboratory MDL in all wells except for MW-8A, which exhibited a concentration of 0.00280 mg/L. Ethylbenzene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in any monitor wells sampled this quarter.
- Xylene concentrations were less than laboratory MDL in all wells except for MW-8A, which exhibited a concentration of 0.00683 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.620 mg/L in any monitor wells sampled this quarter.

The laboratory analytical results for BTEX are summarized in Table 2 – Groundwater Analytical Data - Historical in Appendix B. The PAH laboratory analytical results are summarized in Table 3 – Groundwater Analytical Data – Historical – PAH Supplement in Appendix B. Laboratory analytical data reports and chain of custody documentation are provided in Appendix C.

## **4.0 CONCLUSIONS AND RECOMMENDATIONS**

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The following section presents a summary of the four (4) groundwater monitoring events conducted at the Kimbrough Sweet 8" site and Section 4.2 provides recommendations for future corrective action.

### **4.1 Summary of Findings**

- The groundwater flow direction is generally to the east/northeast with an average gradient of 0.0027 ft/ft based on the water level measurement data collected in 2022.
- Groundwater levels at the subject site have decreased an average of 0.79 feet for the year 2022.
- PSH has impacted monitor wells MW-2A, MW-6, and MW-11A in 2022. PSH levels and extent have fluctuated in 2022 between 0.01 feet in all wells to 0.24 feet in MW-6
- Dissolved-phase concentrations were stable during 2022.

### **4.2 Recommendations**

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

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



## APPENDIX A

### Figures

Figure 1 - Site Map

Figure 2a - Groundwater Gradient Map - 03/04/2022

Figure 2b - Groundwater Gradient Map - 06/07/2022

Figure 2c - Groundwater Gradient Map - 09/14/2022

Figure 2d - Groundwater Gradient Map - 12/06/2022

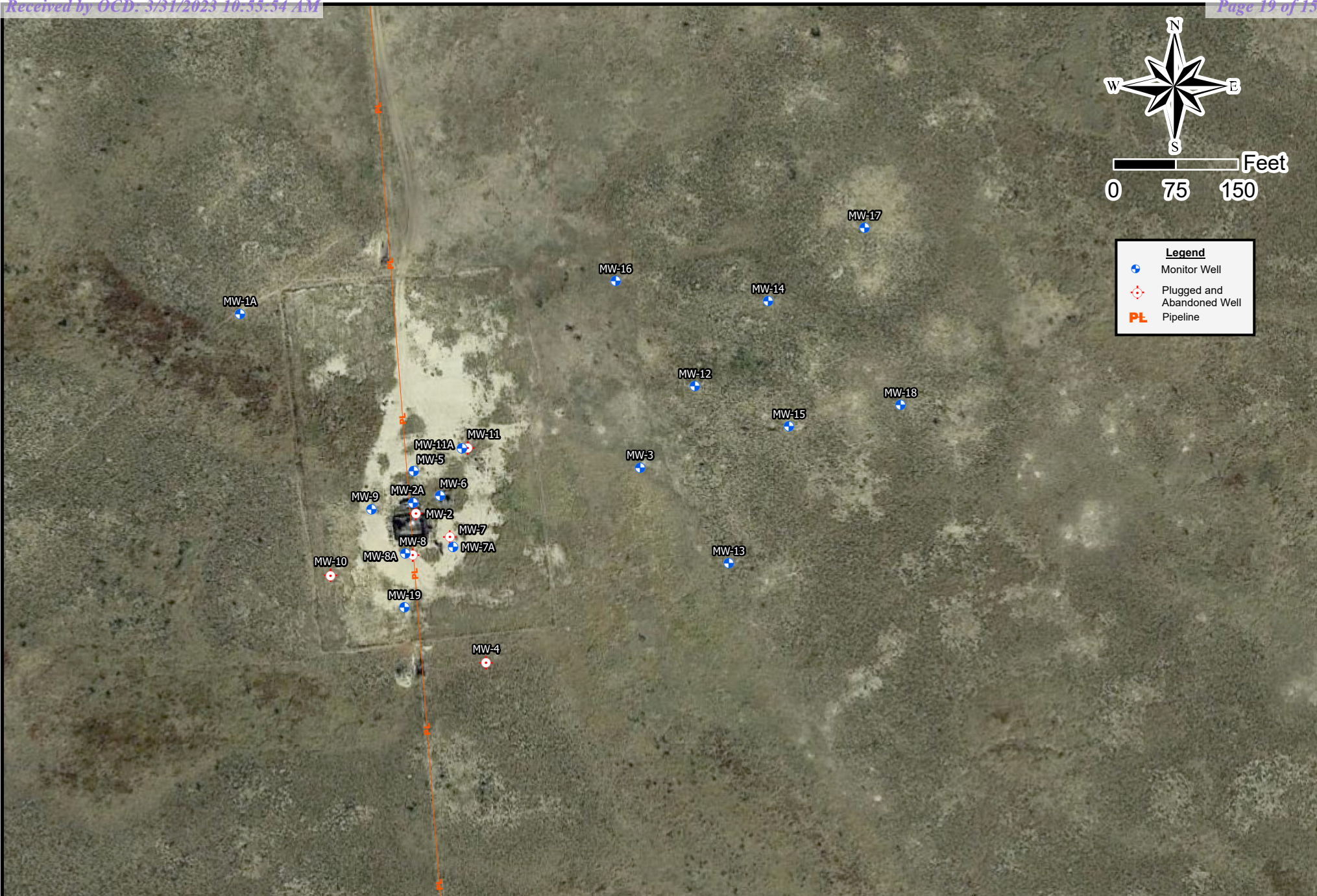
Figure 3a - PSH Thickness & Groundwater Concentration Map - 03/04-07/2022

Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/07/2022

Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/14-16/2022

Figure 3d - PSH Thickness & Groundwater Concentration Map - 12/06/2022





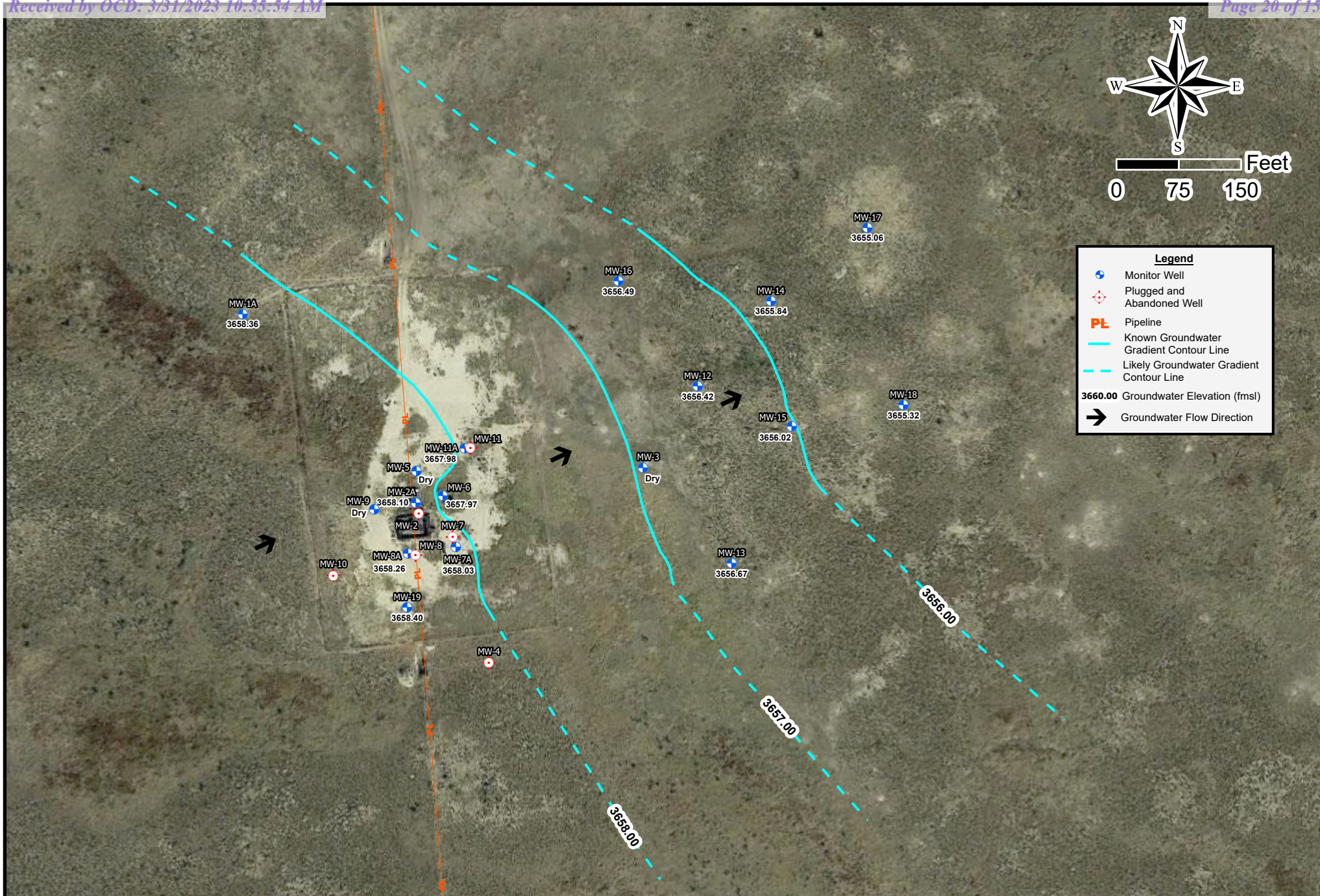
Drafted: 4/7/2021

1 in = 150 ft

Drafted By: NRC

Kimbrough Sweet 8"  
SRS # 2000-10757, NMOCD REF. #nAPP2109529734  
SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico  
32.779804, -103.239008  
Figure 1 - Site Map





Drafted: 5/12/2022

1 in = 150 ft

Drafted By: JAI

Kimbrough Sweet 8"

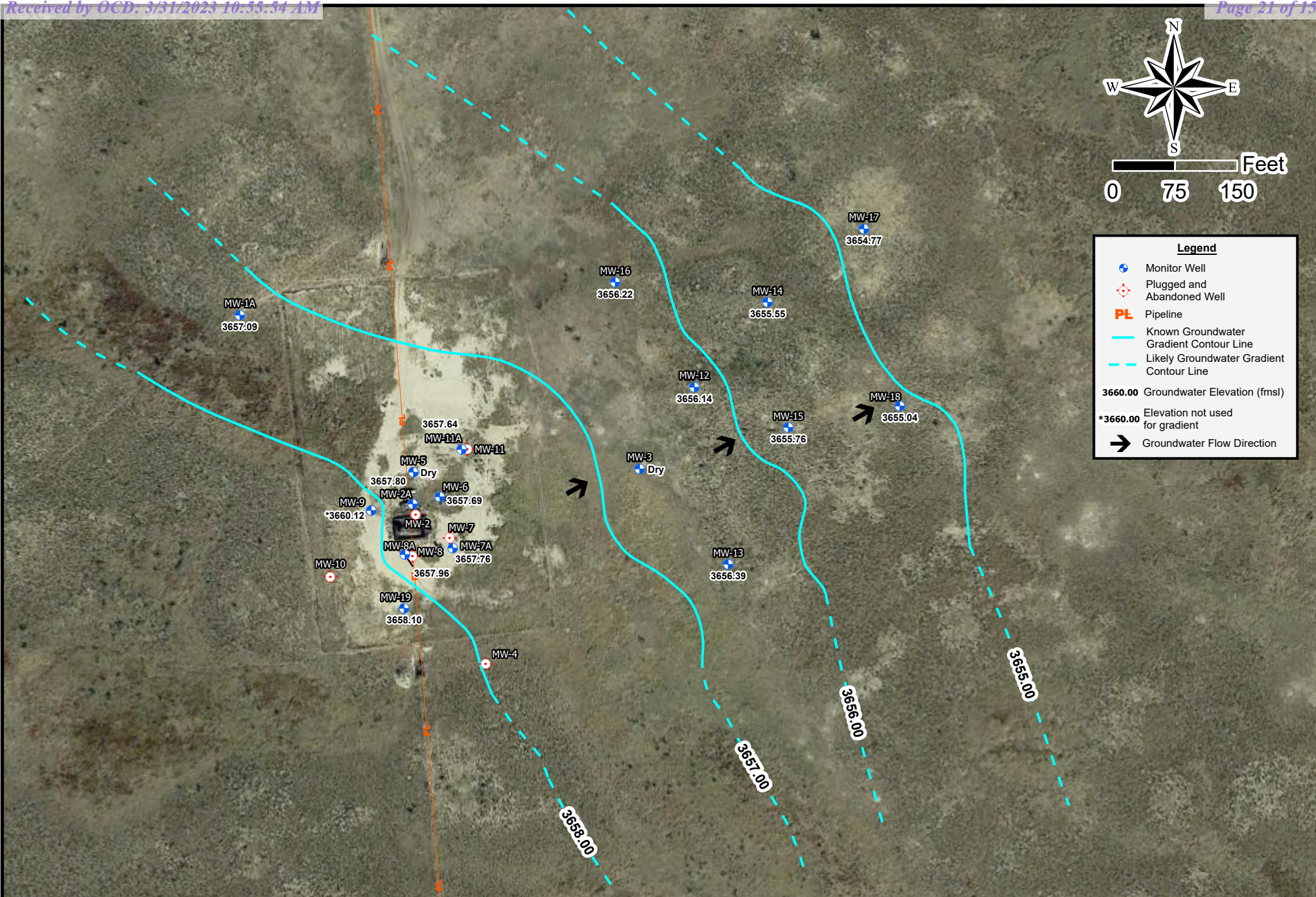
SRS # 2000-10757, NMOCD REF. #nAPP2109529734

SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico

32.779804, -103.239008

Figure 2a - Groundwater Gradient Map (03/04/2022)

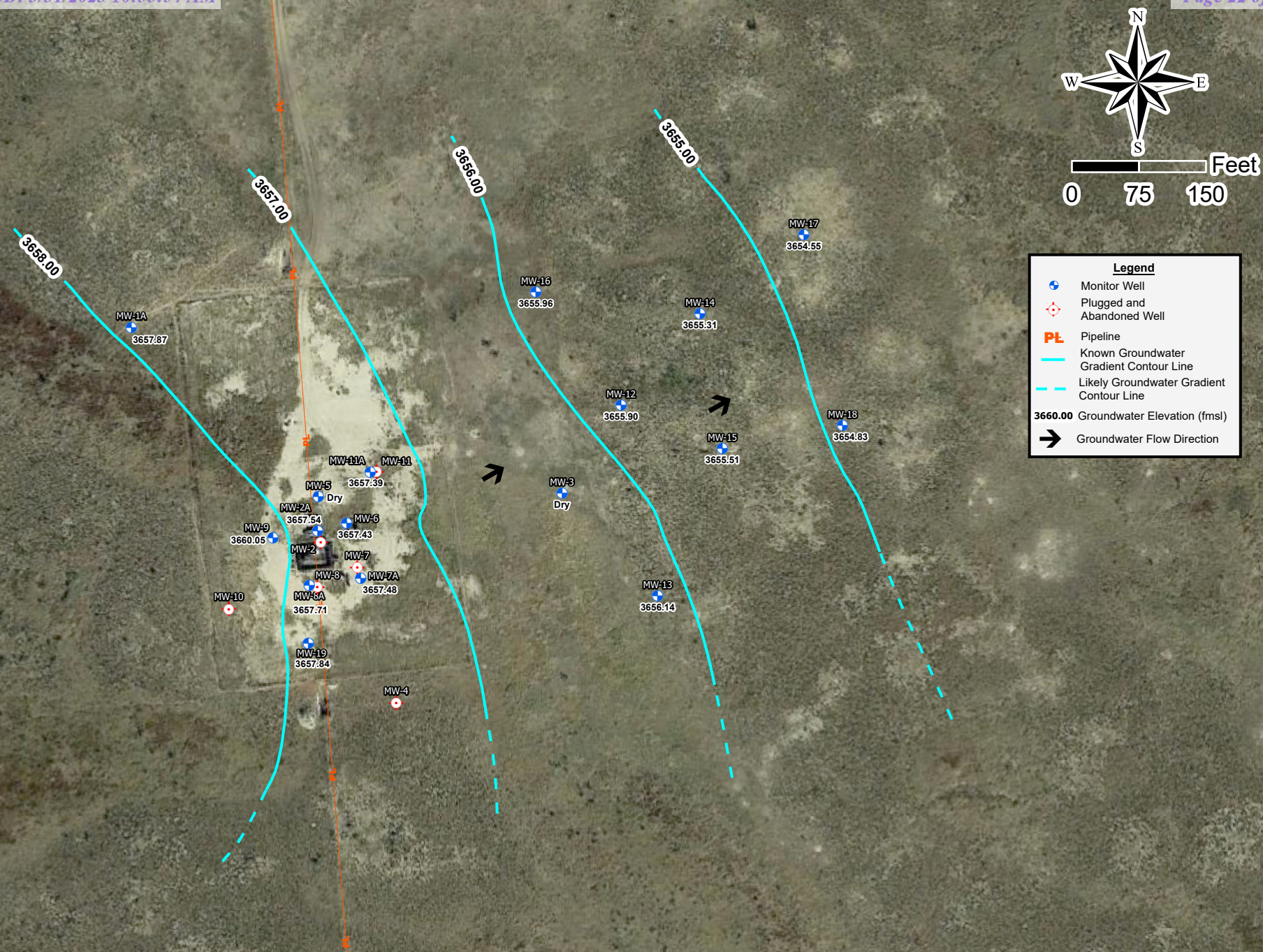




Drafted: 3/6/2023  
1 in = 150 ft  
Drafted By: IJR

Kimbrough Sweet 8"  
SRS # 2000-10757, NMOCD REF. #nAPP2109529734  
SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico  
32.779804, -103.239008  
Figure 2b - Groundwater Gradient Map (06/07/2022)

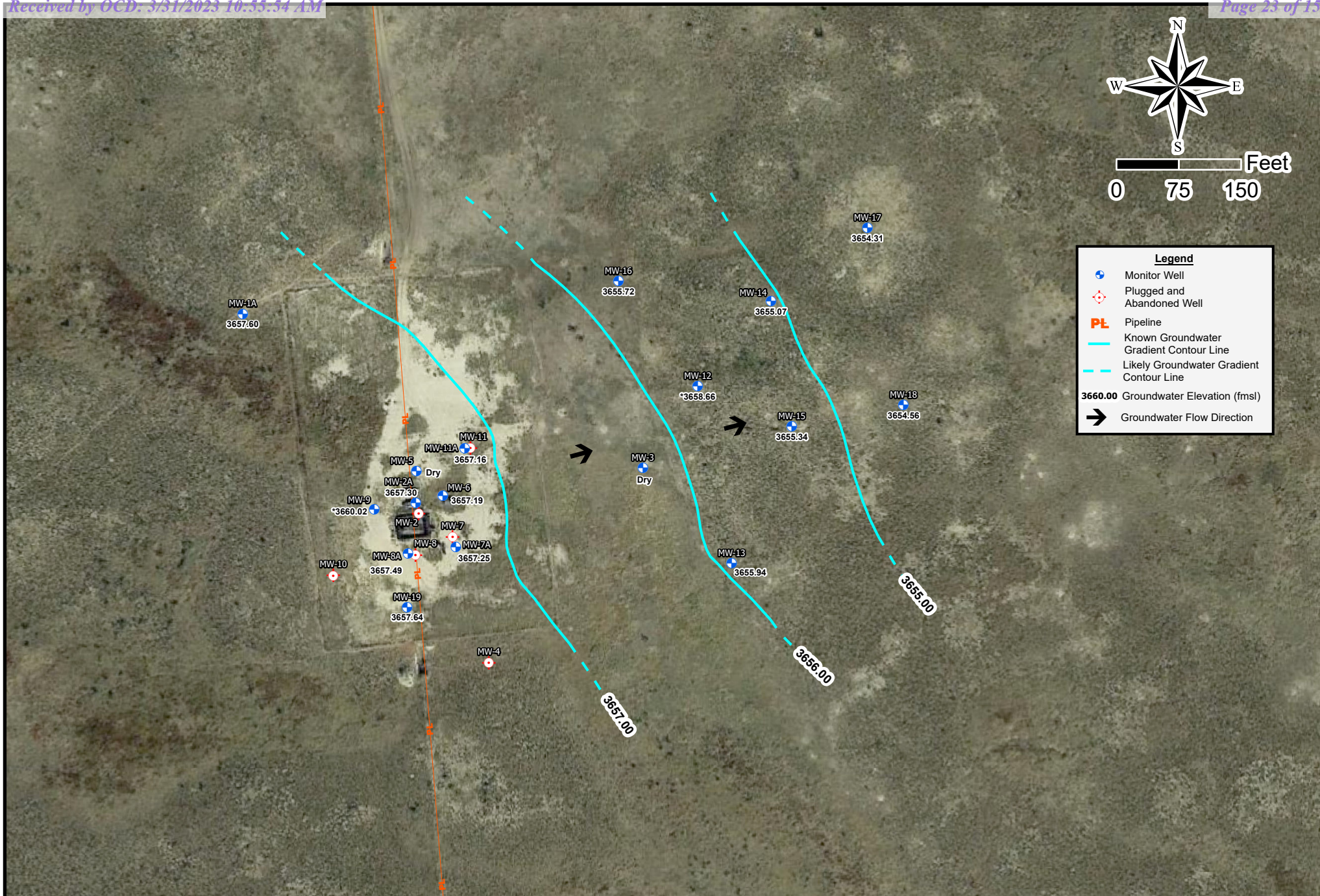




Drafted: 11/23/2022  
 1 in = 150 ft  
 Drafted By: IJR

Kimbrough Sweet 8"  
 SRS # 2000-10757, NMOCD REF. #nAPP2109529734  
 SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico  
 32.779804, -103.239008  
 Figure 2c - Groundwater Gradient Map (09/14/2022)

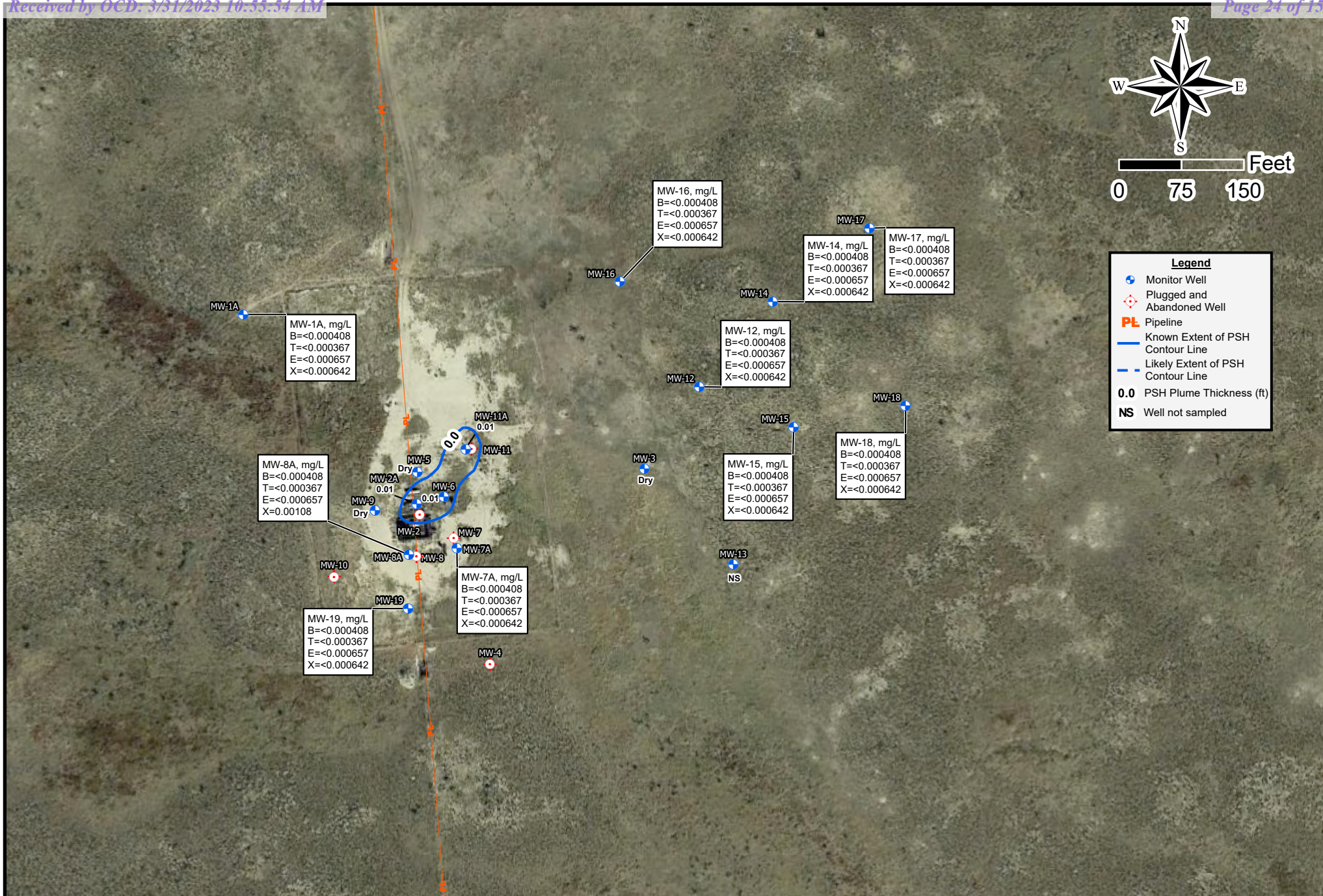




Drafted: 1/19/2023  
1 in = 150 ft  
Drafted By: IJR

Kimbrough Sweet 8"  
SRS # 2000-10757, NMOCD REF. #nAPP2109529734  
SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico  
32.779804, -103.239008  
Figure 2d - Groundwater Gradient Map (12/06/2022)



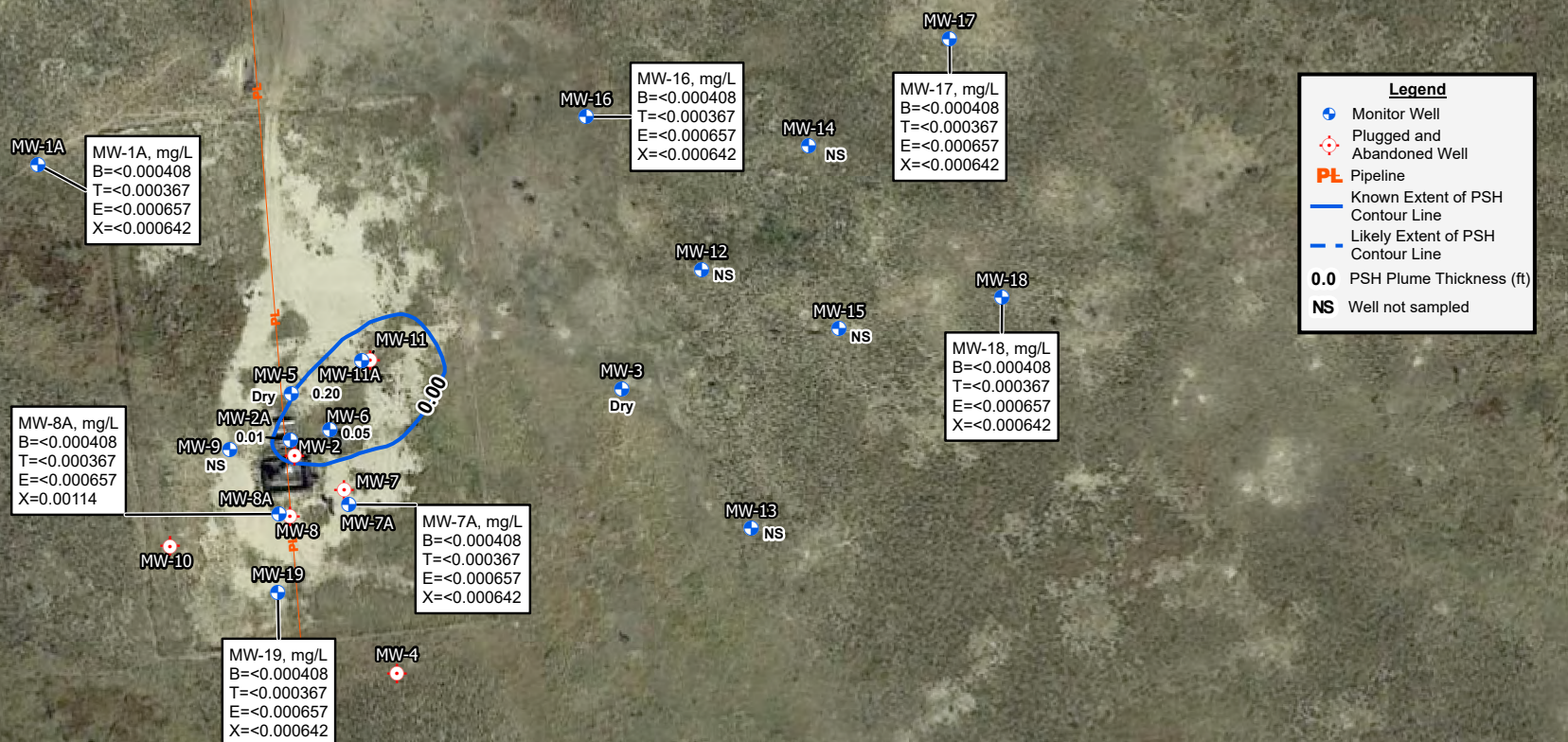


Drafted: 3/7/2023  
1 in = 150 ft  
Drafted By: JAI

Kimbrough Sweet 8"  
SRS # 2000-10757, NMOCD REF. #nAPP2109529734  
SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico  
32.779804, -103.239008

Figure 3a - PSH Thickness and Groundwater Concentration Map (03/04-07/2022)



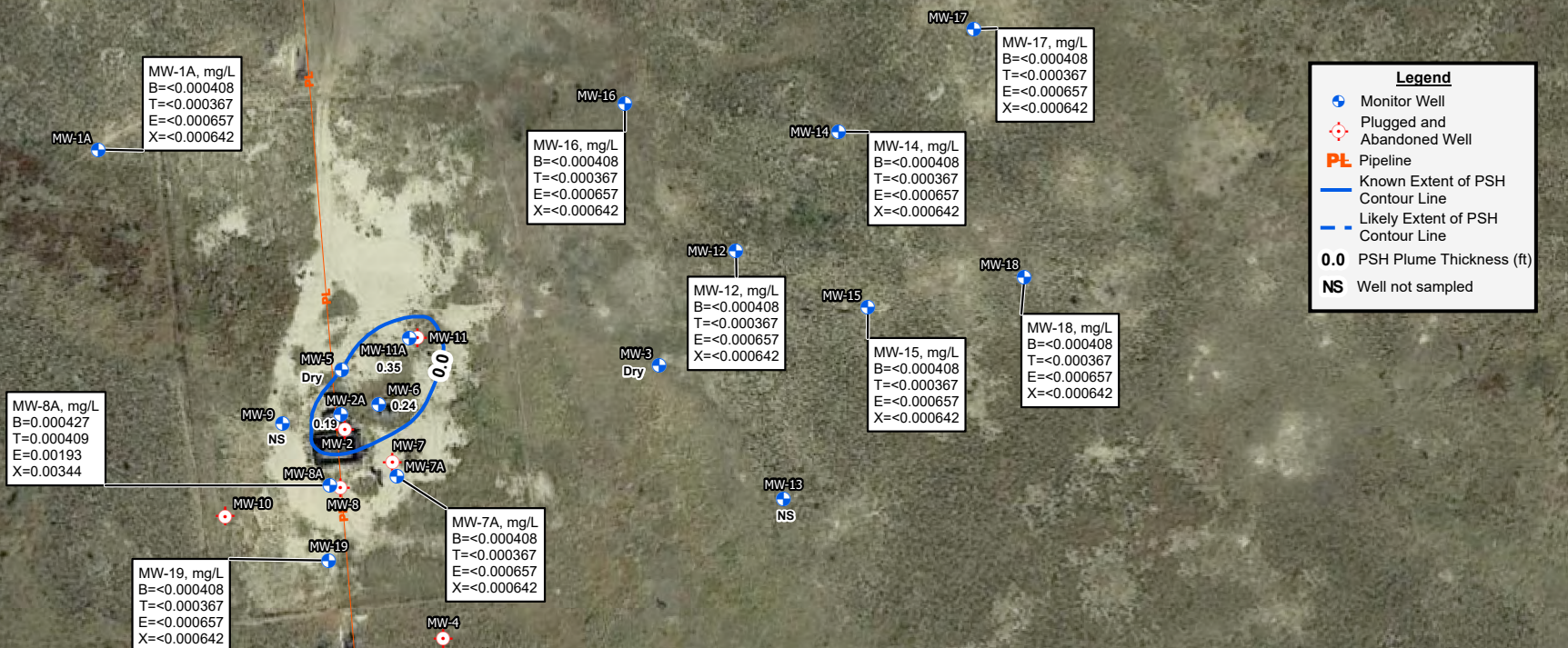


Drafted: 3/6/2023  
1 in = 150 ft  
Drafted By: JAI

Kimbrough Sweet 8"  
SRS # 2000-10757, NMOCD REF. #nAPP2109529734  
SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico  
32.779804, -103.239008

Figure 3b - PSH Thickness and Groundwater Concentration Map (06/07/2022)

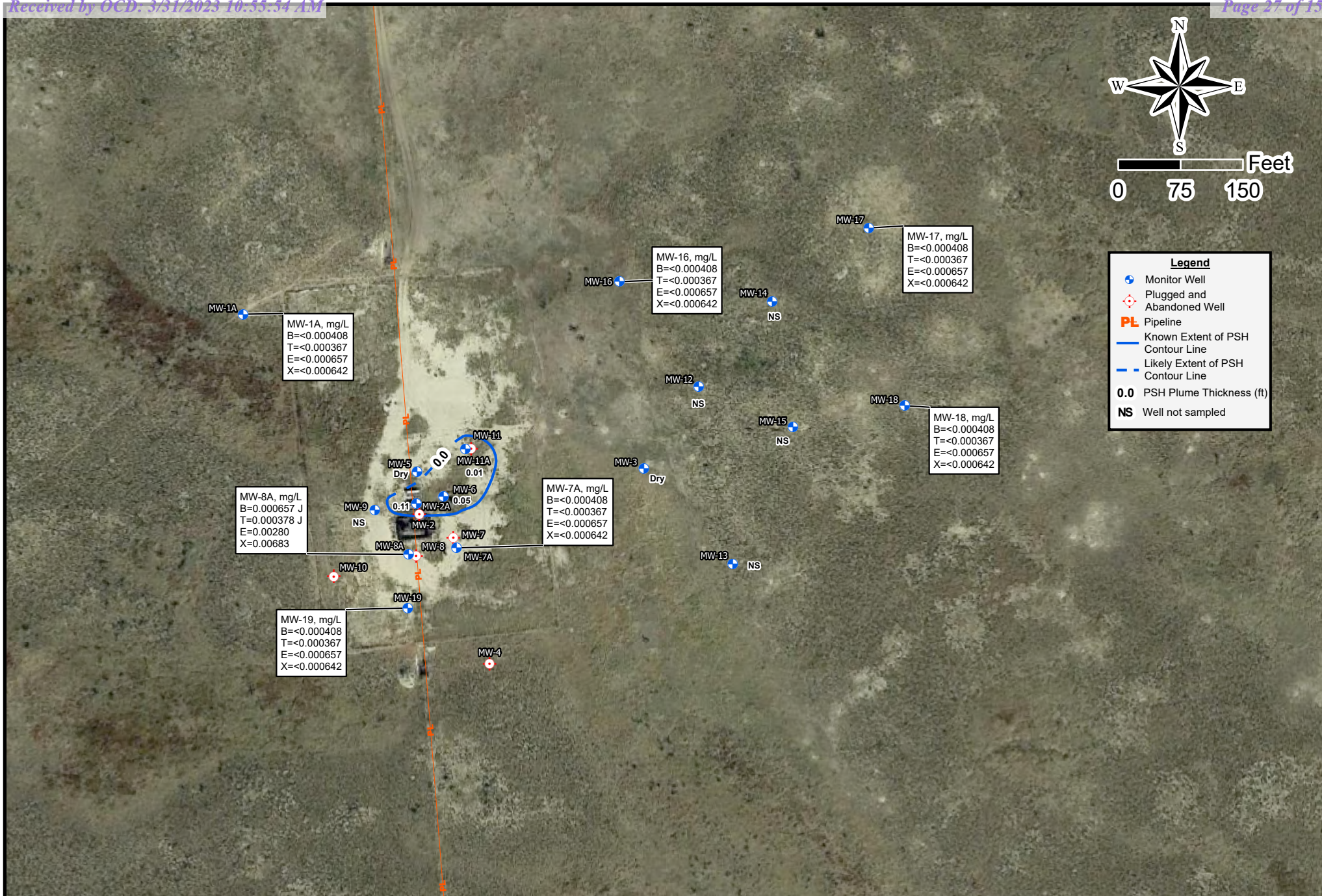




Drafted: 3/6/2023  
1 in = 150 ft  
Drafted By: JAI

Kimbrough Sweet 8"  
SRS # 2000-10757, NMOCD REF. #nAPP2109529734  
SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico  
32.779804, -103.239008  
Figure 3c - PSH Thickness and Groundwater Concentration Map (09/14-16/2022)





Drafted: 3/6/2023  
1 in = 150 ft  
Drafted By: JAI

Kimbrough Sweet 8"  
SRS # 2000-10757, NMOCD REF. #nAPP2109529734  
SW 1/4 of the NE 1/4, Sec. 3, T18S, R37E, Lea County, New Mexico  
32.779804, -103.239008  
Figure 3d - PSH Thickness and Groundwater Concentration Map (12/06/2022)



## APPENDIX B

### Tables

Table 1 – Gauging and NAPL Thickness – Historical

Table 2 – Groundwater Analytical Data – Historical

Table 3 – Groundwater Analytical Data – Historical – PAH Supplement



Table 1 - Gauging and NAPL Thickness - Historical  
 Kimbrough Sweet 8 inch  
 Lea County, NM  
 SRS#: 2000-10757

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-1A 2"	3723.46	55.7	85.7	03/10/2016	60.52	-	-	3662.94
				05/27/2016	61.66	-	-	3661.80
				09/09/2016	60.89	-	-	3662.57
				12/06/2016	61.05	-	-	3662.41
				03/06/2017	61.23	-	-	3662.23
				06/08/2017	61.41	-	-	3662.05
				09/12/2017	61.56	-	-	3661.90
				12/13/2017	DS	-	-	-
				03/22/2018	DS	-	-	-
				09/12/2018	62.15	-	-	3661.31
				12/10/2018	62.38	-	-	3661.08
				03/14/2019	62.65	-	-	3660.81
				06/11/2019	62.80	-	-	3660.66
				09/23/2019	63.00	-	-	3660.46
				12/09/2019	63.17	-	-	3660.29
				03/09/2020	63.35	-	-	3660.11
				06/12/2020	63.55	-	-	3659.91
				09/21/2020	DR	-	-	-
				11/30/2020	63.93	-	-	3659.53
				03/22/2021	64.15	-	-	3659.31
				06/15/2021	64.41	-	-	3659.05
				09/16/2021	64.68	-	-	3658.78
				11/30/2021	68.45	-	-	3655.01
				03/04/2022	65.10	-	-	3658.36
				06/07/2022	66.37	-	-	3657.09
				09/14/2022	65.59	-	-	3657.87
				12/06/2022	65.86	-	-	3657.60
MW-2 4"	3723.32	41	61	03/10/2016	DR	-	-	-
				05/27/2016	59.94	-	-	3663.38
				09/09/2016	61.42	60.19	1.23	3662.93
				12/01/2016	DR	-	-	-
				03/06/2017	61.05	60.57	0.48	3662.67
				06/08/2017	DR	-	-	-
				09/12/2017	DR	-	-	-
				12/13/2017	DR	-	-	-
				03/22/2018	DR	-	-	-
				06/12/2018	DR	-	-	-
				08/29/2018	PA	-	-	-
				09/12/2018	61.32	-	-	3660.93
MW-2A 4"	3722.25	60	80	12/10/2018	61.50	-	-	3660.75
				03/14/2019	61.75	-	-	3660.50
				06/11/2019	61.93	-	-	3660.32
				09/23/2019	62.87	61.90	0.97	3660.19
				12/09/2019	62.30	62.25	0.05	3659.99
				03/09/2020	62.77	62.37	0.40	3659.81
				06/12/2020	63.05	62.63	0.42	3659.55
				09/21/2020	62.83	62.82	0.01	3659.43
				11/30/2020	63.05	63.04	0.01	3659.21
				03/23/2021	63.29	-	-	3658.96
				06/15/2021	63.50	63.49	0.01	3658.76
				09/16/2021	63.78	-	-	3658.47
				12/01/2021	64.06	63.92	0.14	3658.31
				03/04/2022	64.16	64.15	0.01	3658.10
				06/07/2022	64.46	64.45	0.01	3657.80
				09/14/2022	64.87	64.68	0.19	3657.54
				12/06/2022	65.04	64.93	0.11	3657.30
MW-3 2"	3721.52	43.4	63.4	03/10/2016	60.06	-	-	3661.46
				05/27/2016	60.21	-	-	3661.31
				09/09/2016	60.42	-	-	3661.10
				12/06/2016	60.59	-	-	3660.93
				03/06/2017	60.79	-	-	3660.73
				06/08/2017	60.96	-	-	3660.56
				09/12/2017	61.12	-	-	3660.40
				12/13/2017	63.29	-	-	3658.23
				03/22/2018	61.47	-	-	3660.05
				06/12/2018	61.65	-	-	3659.87
				09/12/2018	61.71	-	-	3659.81
				12/10/2018	61.96	-	-	3659.56
				03/14/2019	62.15	-	-	3659.37
				06/11/2019	62.31	-	-	3659.21
				09/23/2019	62.47	-	-	3659.05
				12/09/2019	62.65	-	-	3658.87
				03/09/2020	62.84	-	-	3658.68
				06/12/2020	63.05	-	-	3658.47
				09/21/2020	63.27	-	-	3658.25
				11/30/2020	DR	-	-	-
				03/22/2021	63.11	-	-	3658.41
				06/15/2021	DR	-	-	-
				09/16/2021	DR	-	-	-
				11/30/2021	DR	-	-	-
				03/04/2022	Dry	-	-	-
				06/07/2022	Dry	-	-	-
				09/14/2022	Dry	-	-	-
				12/06/2022	Dry	-	-	-

Table 1 - Gauging and NAPL Thickness - Historical  
 Kimbrough Sweet 8 inch  
 Lea County, NM  
 SRS#: 2000-10757

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-4 2"	3721.94	39.7	59.7	03/10/2016	DR	-	-	-
				05/27/2016	DR	-	-	-
				09/09/2016	DR	-	-	-
				12/06/2016	DR	-	-	-
				03/06/2017	DR	-	-	-
				06/08/2017	DR	-	-	-
				09/12/2017	DR	-	-	-
				12/13/2017	DR	-	-	-
				03/22/2018	DR	-	-	-
				06/12/2018	DR	-	-	-
				08/29/2018	PA	-	-	-
MW-5 4"	3724.08	45	65	03/10/2016	63.87	60.65	3.22	3662.90
				05/27/2016	63.78	60.80	2.98	3662.79
				09/09/2016	63.15	61.45	1.70	3662.35
				12/01/2016	62.42	61.62	0.80	3662.33
				03/06/2017	62.59	62.10	0.49	3661.90
				06/08/2017	62.69	62.25	0.44	3661.76
				09/12/2017	63.19	62.40	0.79	3661.55
				12/13/2017	63.10	62.58	0.52	3661.41
				03/22/2018	63.82	62.55	1.27	3661.32
				06/12/2018	63.26	63.10	0.16	3660.95
				09/12/2018	63.14	63.13	0.01	3660.95
				12/10/2018	62.76	62.74	0.02	3661.34
				03/14/2019	63.03	63.00	0.03	3661.08
				06/11/2019	63.16	-	-	3660.92
				09/23/2019	63.33	63.26	0.07	3660.81
				12/09/2019	63.54	63.18	0.36	3660.84
				03/09/2020	63.47	63.33	0.14	3660.73
				06/12/2020	63.51	63.50	0.01	3660.58
				09/21/2020	65.00	63.53	1.47	3660.31
				11/30/2020	DR	-	-	-
				03/23/2021	DR	-	-	-
				06/15/2021	DR	-	-	-
				09/16/2021	DR	-	-	-
				12/01/2021	DR	-	-	-
				03/04/2022	Dry	-	-	-
				06/07/2022	Dry	-	-	-
				09/14/2022	Dry	-	-	-
				12/06/2022	Dry	-	-	-
MW-6 4"	3722.16	44	64	03/10/2016	63.65	58.85	4.80	3662.52
				05/27/2016	61.43	59.53	1.90	3662.32
				09/09/2016	62.35	60.31	2.04	3661.51
				12/01/2016	60.76	60.14	0.62	3661.92
				03/06/2017	60.73	60.38	0.35	3661.72
				06/08/2017	60.85	60.59	0.26	3661.53
				09/12/2017	61.48	60.60	0.88	3661.41
				12/13/2017	61.58	60.78	0.80	3661.25
				03/22/2018	61.43	61.04	0.39	3661.06
				06/12/2018	61.45	61.30	0.15	3660.84
				09/12/2018	61.38	61.32	0.06	3660.83
				12/10/2018	61.53	61.52	0.01	3660.64
				03/14/2019	61.77	61.75	0.02	3660.41
				06/11/2019	61.94	61.92	0.02	3660.24
				09/23/2019	62.20	62.08	0.12	3660.06
				12/09/2019	62.79	62.20	0.59	3659.86
				03/09/2020	62.60	62.43	0.17	3659.70
				06/12/2020	62.73	62.67	0.06	3659.48
				09/21/2020	62.88	62.86	0.02	3659.30
				11/30/2020	63.06	-	-	3659.10
				03/23/2021	63.34	63.31	0.03	3658.85
				06/15/2021	65.52	65.51	0.01	3656.65
				09/16/2021	63.83	63.78	0.05	3658.37
				12/01/2021	64.00	63.98	0.02	3658.18
				03/04/2022	64.20	64.19	0.01	3657.97
				06/07/2022	64.51	64.46	0.05	3657.69
				09/14/2022	64.93	64.69	0.24	3657.43
				12/06/2022	65.01	64.96	0.05	3657.19

Table 1 - Gauging and NAPL Thickness - Historical  
 Kimbrough Sweet 8 inch  
 Lea County, NM  
 SRS#: 2000-10757

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-7 4"	3723.23	44	64	03/10/2016	61.50	60.53	0.97	3662.54
				05/27/2016	60.93	60.83	0.10	3662.38
				09/09/2016	61.69	61.01	0.68	3662.11
				12/01/2016	62.19	61.09	1.10	3661.96
				03/06/2017	62.30	61.32	0.98	3661.75
				06/08/2017	62.75	61.35	1.40	3661.65
				09/12/2017	62.37	61.65	0.72	3661.46
				12/13/2017	62.73	61.73	1.00	3661.33
				03/22/2018	62.25	62.08	0.17	3661.12
				06/12/2018	62.66	62.24	0.42	3660.92
				08/29/2018	PA	-	-	-
				09/12/2018	61.56	-	-	3660.86
MW-7A 2"	3722.42	60	80	12/10/2018	61.72	-	-	3660.70
				03/14/2019	61.98	-	-	3660.44
				06/11/2019	62.15	-	-	3660.27
				09/23/2019	62.31	-	-	3660.11
				12/09/2019	62.50	-	-	3659.92
				03/09/2020	62.68	-	-	3659.74
				06/12/2020	62.85	-	-	3659.57
				09/21/2020	63.07	-	-	3659.35
				11/30/2020	63.29	-	-	3659.13
				03/23/2021	63.51	-	-	3658.91
				06/15/2021	63.73	-	-	3658.69
				09/16/2021	63.99	-	-	3658.43
				12/01/2021	64.16	-	-	3658.26
				03/04/2022	64.39	-	-	3658.03
				06/07/2022	64.66	-	-	3657.76
				09/14/2022	64.94	-	-	3657.48
				12/06/2022	65.17	-	-	3657.25
MW-8 4"	3723.41	41	61	03/10/2016	63.20	60.11	3.09	3662.79
				05/27/2016	63.43	60.26	3.17	3662.63
				09/09/2016	61.81	60.47	1.34	3662.72
				12/01/2016	61.63	60.61	1.02	3662.63
				03/06/2017	DR	-	-	-
				06/08/2017	DR	-	-	-
				09/12/2017	DR	-	-	-
				12/13/2017	DR	-	-	-
				03/22/2018	DR	-	-	-
				06/12/2018	DR	-	-	-
				08/29/2018	PA	-	-	-
				09/12/2018	62.33	-	-	3661.08
MW-8A 2"	3723.41	60	80	12/10/2018	62.49	-	-	3660.92
				03/14/2019	62.76	-	-	3660.65
				06/11/2019	62.93	-	-	3660.48
				09/23/2019	63.08	-	-	3660.33
				12/09/2019	63.27	-	-	3660.14
				03/09/2020	63.45	-	-	3659.96
				06/12/2020	63.64	-	-	3659.77
				09/21/2020	63.83	-	-	3659.58
				11/30/2020	64.05	-	-	3659.36
				03/22/2021	64.27	-	-	3659.14
				06/15/2021	64.50	-	-	3658.91
				09/16/2021	64.74	-	-	3658.67
				12/01/2021	64.92	-	-	3658.49
				03/04/2022	65.15	-	-	3658.26
				06/07/2022	65.45	-	-	3657.96
				09/14/2022	65.70	-	-	3657.71
				12/06/2022	65.92	-	-	3657.49

Table 1 - Gauging and NAPL Thickness - Historical  
 Kimbrough Sweet 8 inch  
 Lea County, NM  
 SRS#: 2000-10757

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-9 4"	3723.25	43	63	03/10/2016	61.95	60.16	1.79	3662.79
				05/27/2016	61.35	60.42	0.93	3662.68
				09/09/2016	61.12	60.78	0.34	3662.41
				12/01/2016	61.54	60.91	0.63	3662.24
				03/06/2017	62.00	61.02	0.98	3662.07
				06/08/2017	62.28	60.10	2.18	3662.79
				09/12/2017	61.44	61.39	0.05	3661.85
				12/13/2017	62.15	61.53	0.62	3661.62
				03/22/2018	62.83	61.65	1.18	3661.41
				06/12/2018	62.25	62.20	0.05	3661.04
				09/12/2018	62.05	62.03	0.02	3661.22
				12/10/2018	62.30	62.27	0.03	3660.98
				03/14/2019	62.66	62.45	0.21	3660.77
				06/11/2019	62.61	62.60	0.01	3660.65
				09/23/2019	62.97	62.85	0.12	3660.38
				12/09/2019	63.20	63.04	0.16	3660.18
				03/09/2020	63.35	62.98	0.37	3660.21
				06/12/2020	63.28	63.05	0.23	3660.16
				09/21/2020	63.28	63.15	0.13	3660.08
				11/30/2020	DR	-	-	-
				03/23/2021	DR	-	-	-
				06/15/2021	DR	-	-	-
				09/16/2021	63.29	-	-	3659.96
				12/01/2021	63.31	-	-	3659.94
				03/04/2022	Dry	-	-	-
				06/07/2022	63.13	-	-	3660.12
				09/14/2022	63.20	-	-	3660.05
				12/06/2022	63.23	-	-	3660.02
MW-10 2"	3724.14	40.1	60.1	03/10/2016	DR	-	-	-
				05/27/2016	DR	-	-	-
				09/09/2016	DR	-	-	-
				12/06/2016	DR	-	-	-
				03/06/2017	DR	-	-	-
				06/08/2017	DR	-	-	-
				09/12/2017	DR	-	-	-
				12/13/2017	DR	-	-	-
				03/22/2018	DR	-	-	-
				06/12/2018	DR	-	-	-
				08/29/2018	PA	-	-	-
				03/10/2016	60.65	59.60	1.05	3662.78
MW-11 2"	3722.55	40.7	60.7	05/27/2016	60.63	59.58	1.05	3662.80
				09/09/2016	60.59	59.81	0.78	3662.61
				12/01/2016	60.64	59.98	0.66	3662.46
				03/06/2017	60.59	60.19	0.40	3662.29
				06/08/2017	60.59	60.30	0.29	3662.20
				09/12/2017	60.60	60.48	0.12	3662.05
				12/13/2017	DR	-	-	-
				03/22/2018	DR	-	-	-
				06/12/2018	DR	-	-	-
				08/29/2018	PA	-	-	-

Table 1 - Gauging and NAPL Thickness - Historical  
 Kimbrough Sweet 8 inch  
 Lea County, NM  
 SRS#: 2000-10757

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-11A 2"	3722.32	60	80	09/12/2018	61.71	-	-	3660.61
				12/10/2018	61.89	-	-	3660.43
				03/14/2019	62.14	-	-	3660.18
				06/11/2019	64.51	61.86	2.65	3660.02
				09/23/2019	66.00	61.78	4.22	3659.84
				12/09/2019	64.25	62.35	1.90	3659.89
				03/09/2020	62.88	62.84	0.04	3659.47
				06/12/2020	64.01	62.84	1.17	3659.29
				09/21/2020	63.87	63.15	0.72	3659.05
				11/30/2020	63.42	-	-	3658.90
				03/22/2021	64.02	63.59	0.43	3658.66
				06/15/2021	63.87	63.86	0.01	3658.46
				09/16/2021	64.43	64.11	0.32	3658.39
				12/01/2021	65.39	65.37	0.02	3657.18
				03/04/2022	64.58	64.57	0.01	3657.98
				06/07/2022	65.08	64.88	0.20	3657.64
				09/14/2022	65.45	65.10	0.35	3657.39
				12/06/2022	65.40	65.39	0.01	3657.16
MW-12 2"	3724.11	43	73	03/10/2016	63.08	-	-	3661.03
				05/27/2016	63.25	-	-	3660.86
				09/09/2016	63.42	-	-	3660.69
				12/06/2016	63.62	-	-	3660.49
				03/06/2017	63.30	-	-	3660.81
				06/08/2017	63.40	-	-	3660.71
				09/12/2017	64.13	-	-	3659.98
				12/13/2017	64.31	-	-	3659.80
				03/22/2018	61.46	-	-	3662.65
				06/12/2018	64.69	-	-	3659.42
				09/12/2018	64.73	-	-	3659.38
				12/10/2018	65.00	-	-	3659.11
				03/14/2019	65.18	-	-	3658.93
				06/11/2019	65.32	-	-	3658.79
				09/23/2019	65.50	-	-	3658.61
				12/09/2019	65.69	-	-	3658.42
				03/09/2020	65.88	-	-	3658.23
				06/12/2020	66.10	-	-	3658.01
				09/21/2020	66.30	-	-	3657.81
				11/30/2020	66.51	-	-	3657.60
				03/22/2021	66.74	-	-	3657.37
				06/15/2021	66.99	-	-	3657.12
				09/16/2021	67.24	-	-	3656.87
				11/30/2021	67.40	-	-	3656.71
				03/04/2022	67.69	-	-	3656.42
				06/07/2022	67.97	-	-	3656.14
				09/14/2022	68.21	-	-	3655.90
				12/06/2022	65.45	-	-	3658.66
MW-13 2"	3723.19	43	73	03/10/2016	61.96	-	-	3661.23
				05/27/2016	62.10	-	-	3661.09
				09/09/2016	62.31	-	-	3660.88
				12/06/2016	62.47	-	-	3660.72
				03/06/2017	62.68	-	-	3660.51
				06/08/2017	62.85	-	-	3660.34
				09/12/2017	63.01	-	-	3660.18
				12/13/2017	63.19	-	-	3660.00
				03/22/2018	63.36	-	-	3659.83
				06/12/2018	63.60	-	-	3659.59
				09/12/2018	65.60	-	-	3657.59
				12/10/2018	63.57	-	-	3659.62
				03/14/2019	64.04	-	-	3659.15
				06/11/2019	64.17	-	-	3659.02
				09/23/2019	64.37	-	-	3658.82
				12/09/2019	64.54	-	-	3658.65
				03/09/2020	64.74	-	-	3658.45
				06/12/2020	65.00	-	-	3658.19
				09/21/2020	65.16	-	-	3658.03
				11/30/2020	65.35	-	-	3657.84
				03/22/2021	65.59	-	-	3657.60
				06/15/2021	65.83	-	-	3657.36
				09/16/2021	66.08	-	-	3657.11
				11/30/2021	66.25	-	-	3656.94
				03/04/2022	66.52	-	-	3656.67
				06/07/2022	66.80	-	-	3656.39
				09/14/2022	67.05	-	-	3656.14
				12/06/2022	67.25	-	-	3655.94

Table 1 - Gauging and NAPL Thickness - Historical  
Kimbroough Sweet 8 inch  
Lea County, NM  
SRS#: 2000-10757

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-14 4"	3725.1	62.3	82.3	03/10/2016	64.64	-	-	3660.46
				05/27/2016	64.78	-	-	3660.32
				09/09/2016	65.00	-	-	3660.10
				12/06/2016	65.15	-	-	3659.95
				03/06/2017	66.24	-	-	3658.86
				06/08/2017	65.55	-	-	3659.55
				09/12/2017	65.68	-	-	3659.42
				12/13/2017	65.85	-	-	3659.25
				03/22/2018	66.05	-	-	3659.05
				06/12/2018	66.24	-	-	3658.86
				09/12/2018	66.26	-	-	3658.84
				12/10/2018	66.46	-	-	3658.64
				03/14/2019	66.72	-	-	3658.38
				06/11/2019	66.84	-	-	3658.26
				09/23/2019	67.03	-	-	3658.07
				12/09/2019	67.25	-	-	3657.85
				03/09/2020	67.45	-	-	3657.65
				06/12/2020	67.65	-	-	3657.45
				09/21/2020	67.87	-	-	3657.23
				11/30/2020	68.05	-	-	3657.05
				03/22/2021	68.31	-	-	3656.79
				06/15/2021	68.55	-	-	3656.55
				09/16/2021	68.84	-	-	3656.26
				11/30/2021	68.95	-	-	3656.15
				03/04/2022	69.26	-	-	3655.84
				06/07/2022	69.55	-	-	3655.55
				09/14/2022	69.79	-	-	3655.31
				12/06/2022	70.03	-	-	3655.07
MW-15 4"	3726.06	59.2	79.2	03/10/2016	65.40	-	-	3660.66
				05/27/2016	65.56	-	-	3660.50
				09/09/2016	65.75	-	-	3660.31
				12/06/2016	65.90	-	-	3660.16
				03/06/2017	66.09	-	-	3659.97
				06/08/2017	66.32	-	-	3659.74
				09/12/2017	66.45	-	-	3659.61
				12/13/2017	66.63	-	-	3659.43
				03/22/2018	66.82	-	-	3659.24
				06/12/2018	67.03	-	-	3659.03
				09/12/2018	67.04	-	-	3659.02
				12/10/2018	67.32	-	-	3658.74
				03/14/2019	67.49	-	-	3658.57
				06/11/2019	67.62	-	-	3658.44
				09/23/2019	67.79	-	-	3658.27
				12/09/2019	68.00	-	-	3658.06
				03/09/2020	68.19	-	-	3657.87
				06/12/2020	68.40	-	-	3657.66
				09/21/2020	68.84	-	-	3657.22
				11/30/2020	68.81	-	-	3657.25
				03/22/2021	69.08	-	-	3656.98
				06/15/2021	68.30	-	-	3657.76
				09/16/2021	69.59	-	-	3656.47
				11/30/2021	69.45	-	-	3656.61
				03/04/2022	70.04	-	-	3656.02
				06/07/2022	70.30	-	-	3655.76
				09/14/2022	70.55	-	-	3655.51
				12/06/2022	70.72	-	-	3655.34
MW-16 2"	3722.32	52.7	82.7	03/10/2016	61.23	-	-	3661.09
				05/27/2016	61.39	-	-	3660.93
				09/09/2016	61.60	-	-	3660.72
				12/06/2016	61.74	-	-	3660.58
				03/06/2017	61.95	-	-	3660.37
				06/08/2017	61.13	-	-	3661.19
				09/12/2017	62.27	-	-	3660.05
				12/13/2017	62.43	-	-	3659.89
				03/22/2018	62.63	-	-	3659.69
				06/12/2018	62.81	-	-	3659.51
				09/12/2018	62.89	-	-	3659.43
				12/10/2018	63.07	-	-	3659.25
				03/14/2019	63.32	-	-	3659.00
				06/11/2019	63.45	-	-	3658.87
				09/23/2019	63.64	-	-	3658.68
				12/09/2019	63.81	-	-	3658.51
				03/09/2020	64.02	-	-	3658.30
				06/12/2020	64.25	-	-	3658.07
				09/21/2020	64.44	-	-	3657.88
				11/30/2020	64.64	-	-	3657.68
				03/22/2021	64.87	-	-	3657.45
				06/15/2021	65.13	-	-	3657.19
				09/16/2021	65.38	-	-	3656.94
				11/30/2021	65.55	-	-	3656.77
				03/04/2022	65.83	-	-	3656.49
				06/07/2022	66.10	-	-	3656.22
				09/14/2022	66.36	-	-	3655.96
				12/06/2022	66.60	-	-	3655.72

Table 1 - Gauging and NAPL Thickness - Historical  
 Kimbrough Sweet 8 inch  
 Lea County, NM  
 SRS#: 2000-10757

Sample ID	Casing Elevation (fmsl)	Top of Screen (ft)	Bottom of Screen (ft)	Sample Date (ft)	Depth to Water (ft)	Depth to Product (ft)	Product Thickness (ft)	Groundwater Elevation (fmsl)
MW-17 2"	3725.28	56.6	86.6	03/10/2016	65.55	-	-	3659.73
				05/27/2016	65.69	-	-	3659.59
				09/09/2016	65.90	-	-	3659.38
				12/06/2016	66.05	-	-	3659.23
				03/06/2017	65.35	-	-	3659.93
				06/08/2017	66.44	-	-	3658.84
				09/12/2017	66.56	-	-	3658.72
				12/13/2017	66.75	-	-	3658.53
				03/22/2018	66.95	-	-	3658.33
				06/12/2018	67.11	-	-	3658.17
				09/12/2018	67.16	-	-	3658.12
				12/10/2018	67.45	-	-	3657.83
				03/14/2019	67.82	-	-	3657.46
				06/11/2019	67.75	-	-	3657.53
				09/23/2019	67.93	-	-	3657.35
				12/09/2019	68.13	-	-	3657.15
				03/09/2020	68.35	-	-	3656.93
				06/12/2020	68.53	-	-	3656.75
				09/21/2020	68.76	-	-	3656.52
				11/30/2020	68.96	-	-	3656.32
				03/22/2021	69.25	-	-	3656.03
				06/15/2021	69.47	-	-	3655.81
				09/16/2021	69.75	-	-	3655.53
				11/30/2021	69.90	-	-	3655.38
				03/04/2022	70.22	-	-	3655.06
				06/07/2022	70.51	-	-	3654.77
				09/14/2022	70.73	-	-	3654.55
				12/06/2022	70.97	-	-	3654.31
MW-18 2"	3724.75	55.8	85.8	03/10/2016	64.80	-	-	3659.95
				05/27/2016	64.63	-	-	3660.12
				09/09/2016	65.12	-	-	3659.63
				12/06/2016	65.29	-	-	3659.46
				03/06/2017	65.49	-	-	3659.26
				06/08/2017	65.69	-	-	3659.06
				09/12/2017	65.83	-	-	3658.92
				12/13/2017	66.00	-	-	3658.75
				03/22/2018	66.18	-	-	3658.57
				06/12/2018	66.34	-	-	3658.41
				09/12/2018	66.40	-	-	3658.35
				12/10/2018	66.65	-	-	3658.10
				03/14/2019	66.84	-	-	3657.91
				06/11/2019	67.00	-	-	3657.75
				09/23/2019	67.17	-	-	3657.58
				12/09/2019	67.35	-	-	3657.40
				03/09/2020	67.56	-	-	3657.19
				06/12/2020	67.77	-	-	3656.98
				09/21/2020	68.00	-	-	3656.75
				11/30/2020	68.20	-	-	3656.55
				03/22/2021	68.46	-	-	3656.29
				06/15/2021	68.71	-	-	3656.04
				09/16/2021	68.96	-	-	3655.79
				11/30/2021	69.15	-	-	3655.60
				03/04/2022	69.43	-	-	3655.32
				06/07/2022	69.71	-	-	3655.04
				09/14/2022	69.92	-	-	3654.83
				12/06/2022	70.19	-	-	3654.56
MW-19 2"	3722.8	60	80	09/12/2018	61.58	-	-	3661.22
				12/10/2018	61.74	-	-	3661.06
				03/14/2019	62.02	-	-	3660.78
				06/11/2019	62.13	-	-	3660.67
				09/23/2019	62.34	-	-	3660.46
				12/09/2019	62.50	-	-	3660.30
				03/09/2020	62.68	-	-	3660.12
				06/12/2020	62.87	-	-	3659.93
				09/21/2020	63.09	-	-	3659.71
				11/30/2020	63.28	-	-	3659.52
				03/22/2021	63.51	-	-	3659.29
				06/15/2021	63.75	-	-	3659.05
				09/16/2021	64.00	-	-	3658.80
				12/01/2021	64.19	-	-	3658.61
				03/04/2022	64.40	-	-	3658.40
				06/07/2022	64.70	-	-	3658.10
				09/14/2022	64.96	-	-	3657.84
				12/06/2022	65.16	-	-	3657.64

Specific Gravity: 0.75

Notes:

DR = Well dry

DS = Well destroyed

NG = Well not gauged

NL = Well not located

NSA = No access

OB = Obstruction in well

PA = Well plugged and abandoned

Table 2 - Groundwater Analytical Data - Historical  
 Kimbrough Sweet 8 inch  
 Lea County, NM  
 SRS#: 2000-10757

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
NMWQCC - Groundwater Standards		0.010	0.750	0.750	0.620	-
MW-1A	03/10/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/27/2016	0.00220	<0.000238	<0.000238	<0.000243	-
	09/09/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/06/2016	0.00609	<0.00100	<0.000657	<0.000642	-
	03/07/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/08/2017	0.00456	<0.00100	<0.000657	<0.000642	0.00456
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/28/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/24/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/10/2019	<0.000408	0.000650	<0.000657	<0.000630	0.000650
	03/10/2020	0.000410 J	<0.000367	<0.000657	<0.000630	0.000410 J
	06/15/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	11/30/2020	<0.002000	<0.002000	<0.002000	<0.002000	<0.002000
	03/23/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/16/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/01/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/15/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/06/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
MW-2A	09/13/2018	2.41 D	0.808 D	0.233	0.593	4.04
	12/11/2018	0.924	0.169	0.0755	0.191	1.36
	03/18/2019	1.61	0.341	0.177	0.403	2.53
	06/12/2019	2.23	0.946	0.260	0.670	4.11
	03/24/2021	0.291	0.00449	0.0431	0.107	0.446
	09/16/2021	0.344	0.0122	0.0824	0.190	0.628
MW-3	03/10/2016	0.00110	<0.000238	<0.000238	<0.000243	-
	05/27/2016	0.00500	<0.000238	0.000300 J	<0.000243	-
	09/09/2016	0.0018	<0.000621	<0.000763	<0.000256	-
	12/06/2016	0.0269	<0.00100	0.00341	<0.000642	-
	03/07/2017	0.0016 J	<0.000367	<0.000657	<0.000630	0.0016
	06/08/2017	0.0745	0.00308	0.00441	0.00267	0.0847
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/22/2018	0.000910 J	<0.000367	<0.000657	<0.000630	0.000910 J
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/20/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
MW-6	12/01/2020	7.89 D	0.773 D	0.350	0.6770	9.690
MW-7A	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	06/11/2019	<0.000408	<0.000367	<0.000657	0.000630	0.000630
	09/24/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/09/2019	<0.000408	0.000880	<0.000657	<0.000630	0.000880
	03/10/2020	0.000440 J	<0.000367	<0.000657	<0.000630	0.000440 J
	06/16/2020	0.000570 J	0.000640 J	<0.000657	<0.000630	0.00121 J
	09/23/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/01/2020	0.00103 J	<0.002000	<0.002000	<0.002000	0.001030 J
	03/24/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/16/2021	<0.00200	<0.00200	<0.00200	0.00112 J	0.00112 J
	12/01/2021	<0.00200	0.000477 J	<0.00200	<0.00400	<0.00400
	03/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/16/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/06/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657



Table 2 - Groundwater Analytical Data - Historical  
Kimberly Sweet 8 inch  
Lea County, NM  
SRS#: 2000-10757

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
MW-8A	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	0.00752	0.0129	0.00952	0.0234	0.0533
	06/11/2019	0.00108	0.00225	0.00232	0.00776	0.0134
	09/24/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/09/2019	0.000470	0.00159	0.00360	0.00478	0.0104
	03/09/2020	0.000760 J	0.000380 J	0.00150 J	0.00102 J	0.00366
	06/16/2020	0.00102 J	0.000640 J	<0.000657	<0.000630	0.00166 J
	09/23/2020	0.00119 J	<0.000367	0.000730 J	0.00126 J	0.00318
	12/01/2020	0.000780 J	0.000740 J	<0.002000	<0.002000	0.001520 J
	03/24/2021	<0.00200	<0.00200	0.000829 J	0.00132 J	0.00215
	06/18/2021	<0.00200	<0.00200	0.000987 J	0.00315 J	0.00414
	09/16/2021	0.000542 J	<0.00200	<0.00200	0.00472	0.00526
	12/01/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/07/2022	<0.000408	<0.000367	<0.000657	0.00108 J	0.00108 J
	06/07/2022	<0.000408	<0.000367	<0.000657	0.00114 J	0.00114 J
	09/16/2022	0.000427 J	0.000409 J	0.00193 J	0.00344 J	0.00621
	12/06/2022	0.000657 J	0.000378 J	0.00280	0.00683	0.0107
MW-11A	09/13/2018	0.215	<0.000367	0.00629	0.0840	0.305
	12/11/2018	0.505	<0.002560	0.0450	0.0355	0.586
	03/18/2019	2.08	0.00115	0.366	0.189	2.64
	11/30/2020	2.49 D	0.000690 J	0.878 D	0.5008	3.869
MW-12	03/10/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/27/2016	0.00130	<0.000238	0.000400 J	0.000300 J	-
	09/09/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/06/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/07/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/08/2017	0.0016 J	<0.00100	<0.000657	<0.000642	0.0016 J
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/22/2018	0.00176 J	<0.000367	<0.000657	<0.000630	0.00176 J
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/18/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/12/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	09/25/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/10/2019	<0.000408	0.000510	<0.000657	<0.000630	0.000510
	03/10/2020	0.000550 J	<0.000367	<0.000657	<0.000630	0.000550 J
	06/15/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/23/2020	0.00171 J	<0.000367	<0.000657	<0.000630	0.00171 J
	11/30/2020	<0.002000	<0.002000	<0.002000	<0.002000	<0.002000
	03/26/2021	0.000842 J	<0.00200	<0.00200	<0.00400	<0.00200
	06/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/17/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/01/2021	<0.0200	<0.0200	<0.0200	<0.0400	<0.0400
	03/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/15/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
MW-13	03/10/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/27/2016	0.00190	<0.000238	0.000400 J	0.000300 J	-
	09/09/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/06/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/07/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/08/2017	0.00985	<0.00100	<0.000657	<0.000642	0.00985
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/22/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/18/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/12/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	09/25/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/10/2019	<0.000408	0.000450	<0.000657	<0.000630	0.000450
	03/10/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/15/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/22/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	11/30/2020	<0.002000	<0.002000	<0.002000	<0.002000	<0.002000
	03/26/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200

Table 2 - Groundwater Analytical Data - Historical  
 Kimbrough Sweet 8 inch  
 Lea County, NM  
 SRS#: 2000-10757

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
MW-14	03/10/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/27/2016	0.000800 J	<0.000238	<0.000238	<0.000243	-
	09/09/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/06/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/07/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/08/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/22/2018	<0.000408	0.000760 J	<0.000657	<0.000630	0.000760 J
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/18/2019	0.000570	<0.0005	<0.0005	<0.0005	0.000570
	06/11/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	09/24/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/10/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/10/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/15/2020	<0.000408	0.000670 J	<0.000657	<0.000630	0.000670 J
	09/22/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	11/30/2020	<0.002000	<0.002000	<0.002000	<0.002000	<0.002000
	03/23/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/16/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/01/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/15/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
MW-15	03/10/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/27/2016	0.0014	<0.000238	<0.000238	<0.000243	-
	09/09/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/06/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/07/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/08/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/22/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/15/2019	0.000850	<0.000367	<0.000657	<0.00063	0.000850
	06/12/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	09/25/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/10/2019	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/10/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/15/2020	<0.000408	0.000400 J	<0.000657	<0.000630	0.000400 J
	09/22/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	11/30/2020	<0.002000	<0.002000	<0.002000	<0.002000	<0.002000
	03/23/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/16/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/01/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/15/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657

Table 2 - Groundwater Analytical Data - Historical  
 Kimbrough Sweet 8 inch  
 Lea County, NM  
 SRS#: 2000-10757

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
MW-16	03/10/2016	<0.000223	0.000300 J	<0.000238	<0.000243	-
	05/27/2016	0.000800 J	<0.000238	<0.000238	<0.000243	-
	09/09/2016	0.000700 J	<0.000621	<0.000763	<0.000256	-
	12/06/2016	0.00268	<0.00100	<0.000657	<0.000642	-
	03/07/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/08/2017	0.00135 J	<0.00100	<0.000657	<0.000642	0.00135 J
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/22/2018	<0.000408	0.000740 J	<0.000657	<0.000630	0.000740 J
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/18/2019	0.00249	<0.0005	0.000550	<0.0005	0.00304
	06/12/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	09/24/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/09/2019	<0.000408	0.000490	<0.000657	<0.000630	0.000490
	03/10/2020	0.000490 J	<0.000367	<0.000657	<0.000630	0.000490 J
	06/15/2020	<0.000408	0.000600 J	<0.000657	<0.000630	0.000600 J
	09/23/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	11/30/2020	<0.002000	<0.002000	<0.002000	<0.002000	<0.002000
	03/23/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/17/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/01/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/15/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/06/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
MW-17	03/10/2016	<0.000223	0.000500 J	<0.000238	<0.000243	-
	05/27/2016	0.0016	<0.000238	0.000300 J	<0.000243	-
	09/09/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/06/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/07/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/08/2017	0.00466	<0.00100	<0.000657	<0.000642	0.00466
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/22/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/18/2019	0.000780	<0.0005	<0.0005	<0.0005	0.000780
	06/11/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	09/25/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/10/2019	<0.000408	0.000470	<0.000657	<0.000630	0.00047
	03/10/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/15/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	09/22/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	11/30/2020	<0.002000 X	<0.002000	<0.002000	<0.002000	<0.002000
	03/23/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/18/2021	<0.00200	0.000404 J	<0.00200	<0.00400	<0.00400
	09/17/2021	<0.00200	<0.00200	0.000972 J	<0.00400	0.000972 J
	12/01/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/16/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/06/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657

Table 2 - Groundwater Analytical Data - Historical  
Kimbroh Sweet 8 inch  
Lea County, NM  
SRS#: 2000-10757

Sample ID	Date Sampled	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)
MW-18	03/10/2016	<0.000223	<0.000238	<0.000238	<0.000243	-
	05/27/2016	0.0016	<0.000238	<0.000238	<0.000243	-
	09/09/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	12/06/2016	<0.000408	<0.00100	<0.000657	<0.000642	-
	03/07/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/08/2017	<0.000408	<0.00100	<0.000657	<0.000642	<0.000408
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/22/2018	<0.000408	0.000710 J	<0.000657	<0.000630	0.000710 J
	06/12/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/11/2018	<0.000480	<0.000512	<0.000616	<0.000270	<0.000270
	03/18/2019	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	06/12/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	09/25/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/10/2019	<0.000408	0.000380	<0.000657	<0.000630	0.000380
	03/10/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	06/15/2020	0.000530 J	0.000560 J	<0.000657	<0.000630	0.001090 J
	09/22/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	11/30/2020	<0.002000	<0.002000	<0.002000	<0.002000	<0.002000
	03/23/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/17/2021	<0.00200	<0.00200	0.00127 J	<0.00400	0.00127 J
	12/01/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/15/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/06/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
MW-19	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/15/2019	0.00123	0.00490	0.00227	0.00763	0.0160
	06/11/2019	0.000690	<0.000367	<0.000657	<0.00063	0.000690
	09/24/2019	<0.000408	<0.000367	<0.000657	<0.00063	<0.000367
	12/09/2019	<0.000408	0.000610	<0.000657	<0.000630	0.000610
	03/09/2020	0.000530 J	<0.000367	<0.000657	<0.000630	0.000530 J
	06/16/2020	<0.000408	0.000460 J	<0.000657	<0.000630	0.000460 J
	09/23/2020	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	12/01/2020	0.0132	<0.002000	0.00315	0.002650	0.01900
	03/24/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	06/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	09/17/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	12/01/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400
	03/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	06/07/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	09/15/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657
	12/06/2022	<0.000408	<0.000367	<0.000657	<0.000642	<0.000657

Notes:

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

Analyte concentration exceeds the standard for:

 NMWQCC - Groundwater Standards

Table 3 - Groundwater Analytical Data - Historical - PAH Supplement  
Kimbrough Sweet 8 inch  
Lea County, NM  
SRS#2000-10757

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) pyrene (mg/L)	Naphthalene (mg/L)	Phenanthrene (mg/L)	Pyrene (mg/L)
NMWQCC - Groundwater Standards		-	-	-	-	0.0007	-	-	-	-	-	-	-	-	-	0.030	-	-
MW-1A	03/10/2016	<0.0000365	<0.0000638	<0.0000353	<0.0000792	<0.0000459	<0.0000780	<0.0000570	<0.0000616	<0.0000891	<0.0000618	<0.0000667	<0.0000701	<0.0000866	<0.0000590	<0.0000721	<0.0000567	<0.0000456
MW-2A	03/18/2019	<0.0000041	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	0.000458	<0.0000090	0.000246	<0.0000049	0.00493	0.000101	<0.0000092
	03/24/2021	<0.000194	<0.000194 *	<0.000194 *	<0.000194	<0.000194 *	<0.000194 *	<0.000194 *	<0.000194 *	<0.000194	<0.000194 *	0.000363 *	<0.000194	0.000206	<0.000194 *	0.00464 *	0.000206	<0.000194 *
MW-7A	03/15/2019	<0.0000041	<0.0000074	<0.0000077	<0.0000064	<0.0000096	<0.0000092	<0.0000080	<0.0000079	<0.0000089	<0.0000005	<0.0000054	<0.0000090	<0.0000055	<0.0000005	0.000114	<0.0000056	<0.0000093
	03/10/2020	<0.000116	<0.0000980	<0.000101	<0.000156	<0.0000664	<0.0000827	<0.000132 L	<0.000135	<0.000182	<0.0000884	-	<0.000183	<0.000117	<0.000106	<0.000113	<0.0000990	<0.000152
	03/07/2022	<0.0000986	<0.0000830	<0.0000887	<0.000132	<0.0000563	<0.0000690	<0.000111	<0.000114	<0.000154	<0.0000749	<0.0000986	<0.000155	<0.0000996	<0.0000900	<0.0000958	<0.0000838	<0.000128
MW-8A	03/15/2019	<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	0.0000310	<0.0000055	<0.0000092
	03/09/2020	<0.000107	<0.0000903	<0.0000930	<0.000144	<0.0000612	<0.0000763	<0.000122 L	<0.000125	<0.000168	<0.0000816	-	<0.000169	<0.000108	<0.0000980	<0.000104	<0.0000913	<0.000140
	03/07/2022	<0.0000993	<0.0000836	<0.0000894	<0.000133	<0.0000567	<0.0000695	<0.000112	<0.000115	<0.000155	<0.0000755	<0.0000993	<0.000156	<0.000100	<0.0000906	<0.0000965	<0.0000844	<0.000129
MW-11A	03/18/2019	0.000112	<0.0000073	<0.0000076	<0.0000063	<0.0000095	<0.0000091	<0.0000080	<0.0000078	<0.0000088	<0.0000049	0.000527	<0.0000090	0.000180	<0.0000049	0.00669	0.000149	<0.0000092
MW-12	03/22/2018	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112	<0.000112
	03/18/2019	<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	0.0000651	<0.0000055	<0.0000092
	03/10/2020	<0.000101	<0.0000852	<0.0000876	<0.000136	<0.0000577	<0.0000719	<0.000115 L	<0.000118	<0.000158	<0.0000769	-	<0.000159	<0.000102	<0.0000924	<0.0000984	<0.0000860	<0.000132
MW-16	03/10/2016	<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
	03/22/2018	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111
	03/18/2019	<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	0.0000557	<0.0000055	<0.0000092
	03/10/2020	<0.000108	<0.0000913	<0.0000939	<0.000146	<0.0000619	<0.0000771	<0.000123 L	<0.000126	<0.000169	<0.0000824	-	<0.000170	<0.000109	<0.0000990	<0.000105	<0.0000922	<0.000141
MW-17	03/10/2016	<0.0000357	<0.0000624	<0.0000345	<0.0000775	<0.0000449	<0.0000763	<0.0000558	<0.0000603	<0.0000872	<0.0000604	<0.0000652	<0.0000686	<0.0000847	<0.0000577	<0.0000705	<0.0000555	<0.0000446
	03/22/2018	<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
	03/18/2019	<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	0.0000363	<0.0000056	<0.0000094
	03/10/2020	<0.000105	<0.0000886	<0.0000911	<0.000141	<0.0000600	<0.0000748	<0.000119 L	<0.000122	<0.000164	<0.0000800	-	<0.000165	<0.000106	<0.0000961	<0.000102	<0.0000895	<0.000137
MW-18	03/10/2016	<0.0000373	<0.0000653	<0.0000361	<0.0000810	<0.0000470	<0.0000798	<0.0000583	<0.0000630	<0.0000912	<0.0000632	<0.0000682	<0.0000717	<0.0000886	<0.0000604	<0.0000737	<0.0000580	<0.0000466
	03/22/2018	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111	<0.000111
	03/18/2019	<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-19	03/15/2019	<0.00000410	<0.00000740	<0.00000740	<0.00000640	<0.00000970	<0.00000920	<0.00000800	<0.00000790	<0.00000890	<0.00000500	0.000146	<0.00000910	0.000235	<0.00000500	0.000585	0.000323	<0.00000930
	03/09/2020	<0.000110	<0.0000923	<0.0000950	<0.000148	<0.0000626	<0.0000780	<0.000124 L	<0.000127	<0.000171	<0.0000834	-	<0.000172	<0.000111	<0.000100	<0.000107	<0.0000933	<0.000143
	03/07/2022	<0.000100	<0.0000844	<0.0000902	<0.000134	<0.0000572	<0.0000701	<0.000113	<0.000116	<0.000156	<0.0000761	<0.000100	<0.000157	<0.000101	<0.0000915	<0.0000974	<0.0000852	<0.000130

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

Analyte concentration exceeds the standard for:  
 NMWQCC - Groundwater Standards



## APPENDIX C

Laboratory Analytical Data Reports and Chain of Custody Documentation



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2052-1  
Client Project/Site: Kimbrough KIM

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

Attn: David Adkins

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
3/14/2022 6:56:55 PM

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

#### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*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: Kimbrough KIM

Laboratory Job ID: 890-2052-1

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## Definitions/Glossary

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

## Qualifiers

## GC/MS Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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

Eurofins Carlsbad

## Case Narrative

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

**Job ID: 890-2052-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-2052-1****Receipt**

The samples were received on 3/7/2022 3:33 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 6.2°C

**GC/MS Semi VOA**

Method 8270D\_SIM: The surrogate recovery for the blank and Laboratory Control Sample (LCS) associated with preparation batch 860-44575 and analytical batch 860-44721 was outside the upper control limits.

Method 8270D\_SIM: Surrogate recovery for the following samples were outside the upper control limit: MW-8A (890-2052-5), MW-19 (890-2052-6) and MW-7A (890-2052-9). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

**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: Kimbrough KIM

Job ID: 890-2052-1

Client Sample ID: MW-14

Lab Sample ID: 890-2052-1

Date Collected: 03/07/22 09:45

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/12/22 06:02	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/12/22 06:02	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/12/22 06:02	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/12/22 06:02	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/12/22 06:02	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/12/22 06:02	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L			03/12/22 06:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130		03/12/22 06:02	1
4-Bromofluorobenzene (Surr)	90		70 - 130		03/12/22 06:02	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 14:50	1

Client Sample ID: MW-17

Lab Sample ID: 890-2052-2

Date Collected: 03/07/22 09:54

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/12/22 06:29	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/12/22 06:29	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/12/22 06:29	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/12/22 06:29	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/12/22 06:29	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/12/22 06:29	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L			03/12/22 06:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	118		70 - 130		03/12/22 06:29	1
4-Bromofluorobenzene (Surr)	102		70 - 130		03/12/22 06:29	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 14:50	1

Client Sample ID: MW-15

Lab Sample ID: 890-2052-3

Date Collected: 03/07/22 10:30

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/12/22 06:55	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/12/22 06:55	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/12/22 06:55	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/12/22 06:55	1

Eurofins Carlsbad

## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

Client Sample ID: MW-15

Lab Sample ID: 890-2052-3

Date Collected: 03/07/22 10:30

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/12/22 06:55	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/12/22 06:55	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L			03/12/22 06:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130					03/12/22 06:55	1
4-Bromofluorobenzene (Surr)	93		70 - 130					03/12/22 06:55	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 14:50	1

Client Sample ID: MW-18

Lab Sample ID: 890-2052-4

Date Collected: 03/07/22 10:35

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/12/22 07:23	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/12/22 07:23	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/12/22 07:23	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/12/22 07:23	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/12/22 07:23	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/12/22 07:23	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L			03/12/22 07:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	118		70 - 130					03/12/22 07:23	1
4-Bromofluorobenzene (Surr)	96		70 - 130					03/12/22 07:23	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 14:50	1

Client Sample ID: MW-8A

Lab Sample ID: 890-2052-5

Date Collected: 03/07/22 12:00

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000993	U	0.000181	0.0000993	mg/L		03/10/22 18:40	03/11/22 22:36	1
Acenaphthylene	<0.0000836	U	0.000181	0.0000836	mg/L		03/10/22 18:40	03/11/22 22:36	1
Anthracene	<0.0000894	U	0.000181	0.0000894	mg/L		03/10/22 18:40	03/11/22 22:36	1
Benzo[a]anthracene	<0.000133	U	0.000181	0.000133	mg/L		03/10/22 18:40	03/11/22 22:36	1
Benzo[a]pyrene	<0.0000567	U	0.000181	0.0000567	mg/L		03/10/22 18:40	03/11/22 22:36	1
Benzo[b]fluoranthene	<0.0000695	U	0.000181	0.0000695	mg/L		03/10/22 18:40	03/11/22 22:36	1
Benzo[g,h,i]perylene	<0.000112	U	0.000181	0.000112	mg/L		03/10/22 18:40	03/11/22 22:36	1
Benzo[k]fluoranthene	<0.000115	U	0.000181	0.000115	mg/L		03/10/22 18:40	03/11/22 22:36	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

Client Sample ID: MW-8A

Lab Sample ID: 890-2052-5

Date Collected: 03/07/22 12:00

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<0.000155	U	0.000181	0.000155	mg/L		03/10/22 18:40	03/11/22 22:36	1
Dibenz(a,h)anthracene	<0.0000755	U	0.000181	0.0000755	mg/L		03/10/22 18:40	03/11/22 22:36	1
Dibenzofuran	<0.0000993	U	0.000181	0.0000993	mg/L		03/10/22 18:40	03/11/22 22:36	1
Fluoranthene	<0.000156	U	0.000181	0.000156	mg/L		03/10/22 18:40	03/11/22 22:36	1
Fluorene	<0.000100	U	0.000181	0.000100	mg/L		03/10/22 18:40	03/11/22 22:36	1
Indeno[1,2,3-cd]pyrene	<0.0000906	U	0.000181	0.0000906	mg/L		03/10/22 18:40	03/11/22 22:36	1
Naphthalene	<0.0000965	U	0.00361	0.0000965	mg/L		03/10/22 18:40	03/11/22 22:36	1
Phenanthrene	<0.0000844	U	0.000181	0.0000844	mg/L		03/10/22 18:40	03/11/22 22:36	1
Pyrene	<0.000129	U	0.000181	0.000129	mg/L		03/10/22 18:40	03/11/22 22:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	173	S1+	54 - 146				03/10/22 18:40	03/11/22 22:36	1
Nitrobenzene-d5	153	S1+	46 - 151				03/10/22 18:40	03/11/22 22:36	1
p-Terphenyl-d14	153	S1+	51 - 139				03/10/22 18:40	03/11/22 22:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/12/22 10:34	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/12/22 10:34	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/12/22 10:34	1
m-Xylene & p-Xylene	0.00108	J	0.00400	0.000629	mg/L			03/12/22 10:34	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/12/22 10:34	1
Xylenes, Total	0.00108	J	0.00400	0.000642	mg/L			03/12/22 10:34	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L			03/12/22 10:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130					03/12/22 10:34	1
4-Bromofluorobenzene (Surr)	90		70 - 130					03/12/22 10:34	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00108	J	0.00400	0.000657	mg/L			03/14/22 14:50	1

Client Sample ID: MW-19

Lab Sample ID: 890-2052-6

Date Collected: 03/07/22 12:00

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000100	U	0.000182	0.000100	mg/L		03/10/22 18:40	03/11/22 22:55	1
Acenaphthylene	<0.0000844	U	0.000182	0.0000844	mg/L		03/10/22 18:40	03/11/22 22:55	1
Anthracene	<0.0000902	U	0.000182	0.0000902	mg/L		03/10/22 18:40	03/11/22 22:55	1
Benzo[a]anthracene	<0.000134	U	0.000182	0.000134	mg/L		03/10/22 18:40	03/11/22 22:55	1
Benzo[a]pyrene	<0.0000572	U	0.000182	0.0000572	mg/L		03/10/22 18:40	03/11/22 22:55	1
Benzo[b]fluoranthene	<0.0000701	U	0.000182	0.0000701	mg/L		03/10/22 18:40	03/11/22 22:55	1
Benzo[g,h,i]perylene	<0.000113	U	0.000182	0.000113	mg/L		03/10/22 18:40	03/11/22 22:55	1
Benzo[k]fluoranthene	<0.000116	U	0.000182	0.000116	mg/L		03/10/22 18:40	03/11/22 22:55	1
Chrysene	<0.000156	U	0.000182	0.000156	mg/L		03/10/22 18:40	03/11/22 22:55	1
Dibenz(a,h)anthracene	<0.0000761	U	0.000182	0.0000761	mg/L		03/10/22 18:40	03/11/22 22:55	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

Client Sample ID: MW-19

Lab Sample ID: 890-2052-6

Date Collected: 03/07/22 12:00

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<0.000100	U	0.000182	0.000100	mg/L		03/10/22 18:40	03/11/22 22:55	1
Fluoranthene	<0.000157	U	0.000182	0.000157	mg/L		03/10/22 18:40	03/11/22 22:55	1
Fluorene	<0.000101	U	0.000182	0.000101	mg/L		03/10/22 18:40	03/11/22 22:55	1
Indeno[1,2,3-cd]pyrene	<0.0000915	U	0.000182	0.0000915	mg/L		03/10/22 18:40	03/11/22 22:55	1
Naphthalene	<0.0000974	U	0.00365	0.0000974	mg/L		03/10/22 18:40	03/11/22 22:55	1
Phenanthrene	<0.0000852	U	0.000182	0.0000852	mg/L		03/10/22 18:40	03/11/22 22:55	1
Pyrene	<0.000130	U	0.000182	0.000130	mg/L		03/10/22 18:40	03/11/22 22:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	164	S1+	54 - 146	03/10/22 18:40	03/11/22 22:55	1
Nitrobenzene-d5	144		46 - 151	03/10/22 18:40	03/11/22 22:55	1
p-Terphenyl-d14	102		51 - 139	03/10/22 18:40	03/11/22 22:55	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/12/22 11:02	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/12/22 11:02	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/12/22 11:02	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/12/22 11:02	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/12/22 11:02	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/12/22 11:02	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L			03/12/22 11:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130		03/12/22 11:02	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/12/22 11:02	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 14:50	1

Client Sample ID: MW-16

Lab Sample ID: 890-2052-7

Date Collected: 03/07/22 12:33

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/12/22 11:29	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/12/22 11:29	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/12/22 11:29	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/12/22 11:29	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/12/22 11:29	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/12/22 11:29	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L			03/12/22 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130		03/12/22 11:29	1
4-Bromofluorobenzene (Surr)	96		70 - 130		03/12/22 11:29	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

## Client Sample ID: MW-16

Lab Sample ID: 890-2052-7

Date Collected: 03/07/22 12:33

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 14:50	1

## Client Sample ID: MW-12

Lab Sample ID: 890-2052-8

Date Collected: 03/07/22 12:50

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/12/22 11:56	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/12/22 11:56	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/12/22 11:56	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/12/22 11:56	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/12/22 11:56	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/12/22 11:56	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L			03/12/22 11:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130					03/12/22 11:56	1
4-Bromofluorobenzene (Surr)	96		70 - 130					03/12/22 11:56	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 14:50	1

## Client Sample ID: MW-7A

Lab Sample ID: 890-2052-9

Date Collected: 03/07/22 13:30

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000986	U	0.000179	0.0000986	mg/L		03/10/22 18:40	03/11/22 23:14	1
Acenaphthylene	<0.0000830	U	0.000179	0.0000830	mg/L		03/10/22 18:40	03/11/22 23:14	1
Anthracene	<0.0000887	U	0.000179	0.0000887	mg/L		03/10/22 18:40	03/11/22 23:14	1
Benzo[a]anthracene	<0.000132	U	0.000179	0.000132	mg/L		03/10/22 18:40	03/11/22 23:14	1
Benzo[a]pyrene	<0.0000563	U	0.000179	0.0000563	mg/L		03/10/22 18:40	03/11/22 23:14	1
Benzo[b]fluoranthene	<0.0000690	U	0.000179	0.0000690	mg/L		03/10/22 18:40	03/11/22 23:14	1
Benzo[g,h,i]perylene	<0.000111	U	0.000179	0.000111	mg/L		03/10/22 18:40	03/11/22 23:14	1
Benzo[k]fluoranthene	<0.000114	U	0.000179	0.000114	mg/L		03/10/22 18:40	03/11/22 23:14	1
Chrysene	<0.000154	U	0.000179	0.000154	mg/L		03/10/22 18:40	03/11/22 23:14	1
Dibenz(a,h)anthracene	<0.0000749	U	0.000179	0.0000749	mg/L		03/10/22 18:40	03/11/22 23:14	1
Dibenzofuran	<0.0000986	U	0.000179	0.0000986	mg/L		03/10/22 18:40	03/11/22 23:14	1
Fluoranthene	<0.000155	U	0.000179	0.000155	mg/L		03/10/22 18:40	03/11/22 23:14	1
Fluorene	<0.0000996	U	0.000179	0.0000996	mg/L		03/10/22 18:40	03/11/22 23:14	1
Indeno[1,2,3-cd]pyrene	<0.0000900	U	0.000179	0.0000900	mg/L		03/10/22 18:40	03/11/22 23:14	1
Naphthalene	<0.0000958	U	0.00359	0.0000958	mg/L		03/10/22 18:40	03/11/22 23:14	1
Phenanthrene	<0.0000838	U	0.000179	0.0000838	mg/L		03/10/22 18:40	03/11/22 23:14	1
Pyrene	<0.000128	U	0.000179	0.000128	mg/L		03/10/22 18:40	03/11/22 23:14	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

Client Sample ID: MW-7A

Lab Sample ID: 890-2052-9

Date Collected: 03/07/22 13:30

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	170	S1+	54 - 146	03/10/22 18:40	03/11/22 23:14	1
Nitrobenzene-d5	149		46 - 151	03/10/22 18:40	03/11/22 23:14	1
p-Terphenyl-d14	136		51 - 139	03/10/22 18:40	03/11/22 23:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/12/22 12:23	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/12/22 12:23	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/12/22 12:23	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/12/22 12:23	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/12/22 12:23	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/12/22 12:23	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L			03/12/22 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	101		70 - 130		03/12/22 12:23	1
4-Bromofluorobenzene (Surr)	99		70 - 130		03/12/22 12:23	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 14:50	1

Client Sample ID: MW-1A

Lab Sample ID: 890-2052-10

Date Collected: 03/07/22 13:37

Matrix: Water

Date Received: 03/07/22 15:33

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/12/22 12:49	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/12/22 12:49	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/12/22 12:49	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/12/22 12:49	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/12/22 12:49	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/12/22 12:49	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L			03/12/22 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	113		70 - 130		03/12/22 12:49	1
4-Bromofluorobenzene (Surr)	98		70 - 130		03/12/22 12:49	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/14/22 14:50	1

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## Surrogate Summary

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (54-146)	NBZ (46-151)	TPHd14 (51-139)
890-2052-5	MW-8A	173 S1+	153 S1+	153 S1+
890-2052-6	MW-19	164 S1+	144	102
890-2052-9	MW-7A	170 S1+	149	136
LCS 860-44575/2-A	Lab Control Sample	151 S1+	154 S1+	118
LCSD 860-44575/3-A	Lab Control Sample Dup	127	131	113
MB 860-44575/1-A	Method Blank	165 S1+	143	147 S1+
<b>Surrogate Legend</b>				
FBP = 2-Fluorobiphenyl				
NBZ = Nitrobenzene-d5				
TPHd14 = p-Terphenyl-d14				

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DFBZ1 (70-130)	BFB1 (70-130)
890-2052-1	MW-14	102	90
890-2052-2	MW-17	118	102
890-2052-3	MW-15	100	93
890-2052-4	MW-18	118	96
890-2052-5	MW-8A	104	90
890-2052-6	MW-19	97	98
890-2052-7	MW-16	104	96
890-2052-8	MW-12	102	96
890-2052-9	MW-7A	101	99
890-2052-10	MW-1A	113	98
LCS 880-21326/34	Lab Control Sample	126	85
LCSD 880-21326/35	Lab Control Sample Dup	106	93
MB 880-21145/5-A	Method Blank	112	53 S1-
MB 880-21326/39	Method Blank	109	55 S1-
<b>Surrogate Legend</b>			
DFBZ = 1,4-Difluorobenzene (Surr)			
BFB = 4-Bromofluorobenzene (Surr)			

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

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

Lab Sample ID: MB 860-44575/1-A

Matrix: Water

Analysis Batch: 44721

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 44575

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000100	U	0.000182	0.000100	mg/L		03/10/22 18:40	03/11/22 18:24	1
Acenaphthylene	<0.0000844	U	0.000182	0.0000844	mg/L		03/10/22 18:40	03/11/22 18:24	1
Anthracene	<0.0000902	U	0.000182	0.0000902	mg/L		03/10/22 18:40	03/11/22 18:24	1
Benzo[a]anthracene	<0.000134	U	0.000182	0.000134	mg/L		03/10/22 18:40	03/11/22 18:24	1
Benzo[a]pyrene	<0.0000572	U	0.000182	0.0000572	mg/L		03/10/22 18:40	03/11/22 18:24	1
Benzo[b]fluoranthene	<0.0000701	U	0.000182	0.0000701	mg/L		03/10/22 18:40	03/11/22 18:24	1
Benzo[g,h,i]perylene	<0.000113	U	0.000182	0.000113	mg/L		03/10/22 18:40	03/11/22 18:24	1
Benzo[k]fluoranthene	<0.000116	U	0.000182	0.000116	mg/L		03/10/22 18:40	03/11/22 18:24	1
Chrysene	<0.000156	U	0.000182	0.000156	mg/L		03/10/22 18:40	03/11/22 18:24	1
Dibenz(a,h)anthracene	<0.0000761	U	0.000182	0.0000761	mg/L		03/10/22 18:40	03/11/22 18:24	1
Dibenzofuran	<0.000100	U	0.000182	0.000100	mg/L		03/10/22 18:40	03/11/22 18:24	1
Fluoranthene	<0.000157	U	0.000182	0.000157	mg/L		03/10/22 18:40	03/11/22 18:24	1
Fluorene	<0.000101	U	0.000182	0.000101	mg/L		03/10/22 18:40	03/11/22 18:24	1
Indeno[1,2,3-cd]pyrene	<0.0000915	U	0.000182	0.0000915	mg/L		03/10/22 18:40	03/11/22 18:24	1
Naphthalene	<0.0000974	U	0.00365	0.0000974	mg/L		03/10/22 18:40	03/11/22 18:24	1
Phenanthrene	<0.0000852	U	0.000182	0.0000852	mg/L		03/10/22 18:40	03/11/22 18:24	1
Pyrene	<0.000130	U	0.000182	0.000130	mg/L		03/10/22 18:40	03/11/22 18:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	165	S1+	54 - 146	03/10/22 18:40	03/11/22 18:24	1
Nitrobenzene-d5	143		46 - 151	03/10/22 18:40	03/11/22 18:24	1
p-Terphenyl-d14	147	S1+	51 - 139	03/10/22 18:40	03/11/22 18:24	1

Lab Sample ID: LCS 860-44575/2-A

Matrix: Water

Analysis Batch: 44721

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44575

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.0183	0.02890		mg/L		158	66 - 174
Acenaphthylene	0.0183	0.02991		mg/L		164	67 - 182
Anthracene	0.0183	0.03022		mg/L		165	55 - 191
Benzo[a]anthracene	0.0183	0.02702		mg/L		148	16 - 171
Benzo[a]pyrene	0.0183	0.02757		mg/L		151	10 - 165
Benzo[b]fluoranthene	0.0183	0.02966		mg/L		162	10 - 166
Benzo[g,h,i]perylene	0.0183	0.02641		mg/L		144	10 - 154
Benzo[k]fluoranthene	0.0183	0.02811		mg/L		154	10 - 178
Chrysene	0.0183	0.02773		mg/L		152	10 - 172
Dibenz(a,h)anthracene	0.0183	0.02738		mg/L		150	10 - 168
Dibenzofuran	0.0183	0.02964		mg/L		162	68 - 178
Fluoranthene	0.0183	0.03022		mg/L		165	52 - 185
Fluorene	0.0183	0.02962		mg/L		162	64 - 184
Indeno[1,2,3-cd]pyrene	0.0183	0.02780		mg/L		152	10 - 160
Naphthalene	0.0183	0.02847		mg/L		156	66 - 166
Phenanthrene	0.0183	0.02992		mg/L		164	66 - 184
Pyrene	0.0183	0.02892		mg/L		158	58 - 181

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	151	S1+	54 - 146

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

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

Lab Sample ID: LCS 860-44575/2-A

Matrix: Water

Analysis Batch: 44721

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 44575

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	154	S1+	46 - 151
p-Terphenyl-d14	118		51 - 139

Lab Sample ID: LCSD 860-44575/3-A

Matrix: Water

Analysis Batch: 44721

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 44575

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.0181	0.02488		mg/L		137	66 - 174	15	40
Acenaphthylene	0.0181	0.02542		mg/L		140	67 - 182	16	40
Anthracene	0.0181	0.02524		mg/L		139	55 - 191	18	40
Benzo[a]anthracene	0.0181	0.02182		mg/L		120	16 - 171	21	50
Benzo[a]pyrene	0.0181	0.02325		mg/L		128	10 - 165	17	50
Benzo[b]fluoranthene	0.0181	0.02485		mg/L		137	10 - 166	18	50
Benzo[g,h,i]perylene	0.0181	0.02287		mg/L		126	10 - 154	14	50
Benzo[k]fluoranthene	0.0181	0.02402		mg/L		132	10 - 178	16	50
Chrysene	0.0181	0.02293		mg/L		126	10 - 172	19	50
Dibenz(a,h)anthracene	0.0181	0.02376		mg/L		131	10 - 168	14	50
Dibenzofuran	0.0181	0.02558		mg/L		141	68 - 178	15	40
Fluoranthene	0.0181	0.02492		mg/L		137	52 - 185	19	40
Fluorene	0.0181	0.02542		mg/L		140	64 - 184	15	40
Indeno[1,2,3-cd]pyrene	0.0181	0.02411		mg/L		133	10 - 160	14	50
Naphthalene	0.0181	0.02470		mg/L		136	66 - 166	14	40
Phenanthrene	0.0181	0.02541		mg/L		140	66 - 184	16	40
Pyrene	0.0181	0.02355		mg/L		130	58 - 181	20	40

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	127		54 - 146
Nitrobenzene-d5	131		46 - 151
p-Terphenyl-d14	113		51 - 139

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

Lab Sample ID: MB 880-21145/5-A

Matrix: Water

Analysis Batch: 21326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21145

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/10/22 12:54	03/11/22 12:51	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/10/22 12:54	03/11/22 12:51	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/10/22 12:54	03/11/22 12:51	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/10/22 12:54	03/11/22 12:51	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/10/22 12:54	03/11/22 12:51	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/10/22 12:54	03/11/22 12:51	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L		03/10/22 12:54	03/11/22 12:51	1

	MB	MB					Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits						
1,4-Difluorobenzene (Surr)	112		70 - 130				03/10/22 12:54	03/11/22 12:51	1

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

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

Lab Sample ID: MB 880-21145/5-A

Matrix: Water

Analysis Batch: 21326

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21145

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	53	S1-	70 - 130	03/10/22 12:54	03/11/22 12:51	1

Lab Sample ID: MB 880-21326/39

Matrix: Water

Analysis Batch: 21326

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/12/22 02:52	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/12/22 02:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/12/22 02:52	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/12/22 02:52	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/12/22 02:52	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/12/22 02:52	1
Methyl tert-butyl ether	<0.00258	U	0.0100	0.00258	mg/L			03/12/22 02:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130		03/12/22 02:52	1
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130		03/12/22 02:52	1

Lab Sample ID: LCS 880-21326/34

Matrix: Water

Analysis Batch: 21326

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	0.09331		mg/L		93	70 - 130
Toluene	0.100	0.07824		mg/L		78	70 - 130
Ethylbenzene	0.100	0.08422		mg/L		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1721		mg/L		86	70 - 130
o-Xylene	0.100	0.08781		mg/L		88	70 - 130
Methyl tert-butyl ether	0.500	0.4913		mg/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,4-Difluorobenzene (Surr)	126		70 - 130
4-Bromofluorobenzene (Surr)	85		70 - 130

Lab Sample ID: LCSD 880-21326/35

Matrix: Water

Analysis Batch: 21326

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	0.08664		mg/L		87	70 - 130	7	20
Toluene	0.100	0.08284		mg/L		83	70 - 130	6	20
Ethylbenzene	0.100	0.08893		mg/L		89	70 - 130	5	20
m-Xylene & p-Xylene	0.200	0.1823		mg/L		91	70 - 130	6	20
o-Xylene	0.100	0.09321		mg/L		93	70 - 130	6	20
Methyl tert-butyl ether	0.500	0.5305		mg/L		106	70 - 130	8	20

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QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

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

Lab Sample ID: LCSD 880-21326/35  
Matrix: Water  
Analysis Batch: 21326

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

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1,4-Difluorobenzene (Surr)	106		70 - 130
4-Bromofluorobenzene (Surr)	93		70 - 130

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



## QC Association Summary

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

## GC/MS Semi VOA

## Prep Batch: 44575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2052-5	MW-8A	Total/NA	Water	3511	
890-2052-6	MW-19	Total/NA	Water	3511	
890-2052-9	MW-7A	Total/NA	Water	3511	
MB 860-44575/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-44575/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-44575/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

## Analysis Batch: 44721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2052-5	MW-8A	Total/NA	Water	8270D SIM	44575
890-2052-6	MW-19	Total/NA	Water	8270D SIM	44575
890-2052-9	MW-7A	Total/NA	Water	8270D SIM	44575
MB 860-44575/1-A	Method Blank	Total/NA	Water	8270D SIM	44575
LCS 860-44575/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	44575
LCSD 860-44575/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	44575

## GC VOA

## Prep Batch: 21145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21145/5-A	Method Blank	Total/NA	Water	5035	

## Analysis Batch: 21326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2052-1	MW-14	Total/NA	Water	8021B	
890-2052-2	MW-17	Total/NA	Water	8021B	
890-2052-3	MW-15	Total/NA	Water	8021B	
890-2052-4	MW-18	Total/NA	Water	8021B	
890-2052-5	MW-8A	Total/NA	Water	8021B	
890-2052-6	MW-19	Total/NA	Water	8021B	
890-2052-7	MW-16	Total/NA	Water	8021B	
890-2052-8	MW-12	Total/NA	Water	8021B	
890-2052-9	MW-7A	Total/NA	Water	8021B	
890-2052-10	MW-1A	Total/NA	Water	8021B	
MB 880-21145/5-A	Method Blank	Total/NA	Water	8021B	21145
MB 880-21326/39	Method Blank	Total/NA	Water	8021B	
LCS 880-21326/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-21326/35	Lab Control Sample Dup	Total/NA	Water	8021B	

## Analysis Batch: 21561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2052-1	MW-14	Total/NA	Water	Total BTEX	
890-2052-2	MW-17	Total/NA	Water	Total BTEX	
890-2052-3	MW-15	Total/NA	Water	Total BTEX	
890-2052-4	MW-18	Total/NA	Water	Total BTEX	
890-2052-5	MW-8A	Total/NA	Water	Total BTEX	
890-2052-6	MW-19	Total/NA	Water	Total BTEX	
890-2052-7	MW-16	Total/NA	Water	Total BTEX	
890-2052-8	MW-12	Total/NA	Water	Total BTEX	
890-2052-9	MW-7A	Total/NA	Water	Total BTEX	
890-2052-10	MW-1A	Total/NA	Water	Total BTEX	

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## Lab Chronicle

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

Client Sample ID: MW-14

Lab Sample ID: 890-2052-1

Date Collected: 03/07/22 09:45

Matrix: Water

Date Received: 03/07/22 15:33

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	21326	03/12/22 06:02	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21561	03/14/22 14:50	AJ	XEN MID

Client Sample ID: MW-17

Lab Sample ID: 890-2052-2

Date Collected: 03/07/22 09:54

Matrix: Water

Date Received: 03/07/22 15:33

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	21326	03/12/22 06:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21561	03/14/22 14:50	AJ	XEN MID

Client Sample ID: MW-15

Lab Sample ID: 890-2052-3

Date Collected: 03/07/22 10:30

Matrix: Water

Date Received: 03/07/22 15:33

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	21326	03/12/22 06:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21561	03/14/22 14:50	AJ	XEN MID

Client Sample ID: MW-18

Lab Sample ID: 890-2052-4

Date Collected: 03/07/22 10:35

Matrix: Water

Date Received: 03/07/22 15:33

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	21326	03/12/22 07:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21561	03/14/22 14:50	AJ	XEN MID

Client Sample ID: MW-8A

Lab Sample ID: 890-2052-5

Date Collected: 03/07/22 12:00

Matrix: Water

Date Received: 03/07/22 15:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.4 mL	2 mL	44575	03/10/22 18:40	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44721	03/11/22 22:36	PXS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	21326	03/12/22 10:34	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21561	03/14/22 14:50	AJ	XEN MID

Client Sample ID: MW-19

Lab Sample ID: 890-2052-6

Date Collected: 03/07/22 12:00

Matrix: Water

Date Received: 03/07/22 15:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			54.9 mL	2 mL	44575	03/10/22 18:40	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44721	03/11/22 22:55	PXS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	21326	03/12/22 11:02	MR	XEN MID

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## Lab Chronicle

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

Client Sample ID: MW-19

Lab Sample ID: 890-2052-6

Date Collected: 03/07/22 12:00

Matrix: Water

Date Received: 03/07/22 15:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Total BTEX		1			21561	03/14/22 14:50	AJ	XEN MID

Client Sample ID: MW-16

Lab Sample ID: 890-2052-7

Date Collected: 03/07/22 12:33

Matrix: Water

Date Received: 03/07/22 15:33

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	21326	03/12/22 11:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21561	03/14/22 14:50	AJ	XEN MID

Client Sample ID: MW-12

Lab Sample ID: 890-2052-8

Date Collected: 03/07/22 12:50

Matrix: Water

Date Received: 03/07/22 15:33

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	21326	03/12/22 11:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21561	03/14/22 14:50	AJ	XEN MID

Client Sample ID: MW-7A

Lab Sample ID: 890-2052-9

Date Collected: 03/07/22 13:30

Matrix: Water

Date Received: 03/07/22 15:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.8 mL	2 mL	44575	03/10/22 18:40	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			44721	03/11/22 23:14	PXS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	21326	03/12/22 12:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21561	03/14/22 14:50	AJ	XEN MID

Client Sample ID: MW-1A

Lab Sample ID: 890-2052-10

Date Collected: 03/07/22 13:37

Matrix: Water

Date Received: 03/07/22 15:33

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	21326	03/12/22 12:49	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			21561	03/14/22 14:50	AJ	XEN MID

## Laboratory References:

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

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	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
8270D SIM	3511	Water	Dibenzofuran

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	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: Kimbrough KIM

Job ID: 890-2052-1

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

### Protocol References:

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

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

Eurofins Carlsbad

## Sample Summary

Client: Talon/LPE  
Project/Site: Kimbrough KIM

Job ID: 890-2052-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2052-1	MW-14	Water	03/07/22 09:45	03/07/22 15:33	N/A
890-2052-2	MW-17	Water	03/07/22 09:54	03/07/22 15:33	N/A
890-2052-3	MW-15	Water	03/07/22 10:30	03/07/22 15:33	N/A
890-2052-4	MW-18	Water	03/07/22 10:35	03/07/22 15:33	N/A
890-2052-5	MW-8A	Water	03/07/22 12:00	03/07/22 15:33	N/A
890-2052-6	MW-19	Water	03/07/22 12:00	03/07/22 15:33	N/A
890-2052-7	MW-16	Water	03/07/22 12:33	03/07/22 15:33	N/A
890-2052-8	MW-12	Water	03/07/22 12:50	03/07/22 15:33	N/A
890-2052-9	MW-7A	Water	03/07/22 13:30	03/07/22 15:33	N/A
890-2052-10	MW-1A	Water	03/07/22 13:37	03/07/22 15:33	N/A




**Environment Testing**  
**Xenco**

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

**Chain of Custody**

Work Order No: \_\_\_\_\_

www.xenco.com Page 1 of 1

CIP-Cooling Process

Project Manager:	D. Adkins	Bill to: (if different)	Plains All American
Company Name:	Talon LPE	Company Name:	Pipe Line
Address:	408 Texas St	Address:	Ath: Camille Bryant
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2000-10757
Phone:	575-441-4835	Email:	dadkins@talonlpe.com

Work Order Comments			
Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>		
State of Project:			
Reporting:	Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>		
Deliverables:	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:		

Project Name:	Kimberly (KIM)	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST		Preservative Codes	None: NO <input type="checkbox"/> DI Water: H <sub>2</sub> O <input type="checkbox"/>
Project Number:		Due Date:						Cool: Cool <input type="checkbox"/> MeOH: Me <input type="checkbox"/>	
Project Location:	Lea County	TAT starts the day received by the lab, if received by 4:30pm						HCL: HC <input type="checkbox"/> HNO <sub>3</sub> : HN <input type="checkbox"/>	
Sampler's Name:	R. Bell / M. Bomer							H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> <input type="checkbox"/> NaOH: Na <input type="checkbox"/>	
PO #:	SRS# 2000-10757							H <sub>2</sub> PO <sub>4</sub> : HP <input type="checkbox"/>	
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						NaHSO <sub>4</sub> : NABIS <input type="checkbox"/>	
Samples Received Inact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID: 7MM-003						Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NASO <sub>3</sub> <input type="checkbox"/>	
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor: -0.2						Zn Acetate+NaOH: Zn <input type="checkbox"/>	
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading: 6.4						NaOH+Ascorbic Acid: SARC <input type="checkbox"/>	
Total Containers:		Corrected Temperature: 6.2							



890-2052 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Sample Comments
MW-14	GW	3/7/22	9:45	N/A		3	X RTEX PAH	Email Analyticals to: CIBryant@PlainsAllAmerican.com
MW-17			9:54			3		
MW-15			10:30			3		
MW-18			10:35			3		
MW-8A			12:00			5		
MW-19			12:00			5		
MW-16			12:33			3		
MW-12			12:50			3		
MW-7A			1:30			5		
MW-1A			1:37			3		

Total 2007 / 6010	2008 / 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 <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg: 1631 / 245.1 / 7470 / 7471	

Notes: 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
Matthew Gomer	C. Gomer	3-7-22 1533			

## Eurofins Carlsbad

1089 N Canal St.  
Carlsbad, NM 88220

Phone: 575-988-3199 Fax: 575-988-3199

## Chain of Custody Record

Environment Testing  
America

Eurofins Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 575-988-3199		Sampler Kramer Jessica		Lab PM: Kramer Jessica	Center Tracking No(s): 890-657 1	COC No: 890-657 1
Client Contact: Shipping/Receiving		Phone:		E-Mail: jessica.kramer@eurofins.com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Environment Testing South Central		Address: 4145 Greenbriar Dr City: Stafford State, Zip: TX, 77477 Phone: 281-240-4200(Tel) Email: Project Name: Kimbrough KIM Site:		Accreditations Required (See note): NELAP Texas		Job #: 890-2052-1
Due Date Requested: 3/11/2022		TAT Requested (days):		Analysis Requested		Preservation Codes:
PO #:		WO #:		Project #: 89000047		SSOW#:
Sample Date		Sample Time	Sample Type (C=comp, G=grab)	Matrix (Water, Solid, On-site, etc.)	Preservation Code	Special Instructions/Note:
MW-5A (890-2052-5)	3/7/22	12:00 Mountain		Water		
MW-19 (890-2052-6)	3/7/22	12:00 Mountain		Water		
MW-7A (890-2052-9)	3/7/22	13:30 Mountain		Water		
Temp: 48 IR ID-HOU-223 C/F -0.1 Corrected Temp: 4.7						
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.						
Possible Hazard Identification						
Unconfirmed						
Deliverable Requested: I II III, IV Other (specify)		Primary Deliverable Rank: 2		Special Instructions/QC Requirements:		
Empty Kit Relinquished by		Date:		Time:		
Relinquished by: <i>One Day 3-8-22</i>		Date/Time:		Company		
Relinquished by: <i>fer</i>		Date/Time:		Company		
Relinquished by:		Date/Time:		Company		
Custody Seals Intact Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:		

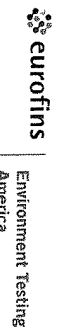
Ver 06/08/2021

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Eurofins Carlsbad

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

Chain of Custody Record



<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab PM	Carrier Tracking No(s)	COC No.						
Client Contact:	Phone:	Kramer, Jessica			890-658-1						
Shipping/Receiving	E-Mail:	Jessica.kramer@eurofins.com		State of Origin	Page 1 of 2						
Company:	Accreditations Required (See note):	NE LAP - Texas		New Mexico							
Address		Due Date Requested	Job #:								
1211 W Florida Ave	3/1/2022	890-2052-1									
City:	TAT Requested (days):	Analysis Requested									
Midland											
State Zip:											
TX 79701											
Phone:	PO #:										
432-704-5440(Tel)											
Email:	WO #:										
Project Name	Project #:										
Kimbrough KIM	89000047										
Site:	SSOW#:										
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>	<b>Matrix (Water, Soil, Over-spread, BT-Tissue, A=Air)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>8021B/6030B BTEX and MTBE</b>	<b>Total BTEX_GCV</b>	<b>Total Number of containers</b>	<b>Special Instructions/Note</b>
MMW-14 (890-2052-1)		3/7/22	09 45	Mountain	Water	X	X			3	
MMW-17 (890-2052-2)		3/7/22	09 54	Mountain	Water	X	X			3	
MMW-15 (890-2052-3)		3/7/22	10 30	Mountain	Water	X	X			3	
MMW-18 (890-2052-4)		3/7/22	10 35	Mountain	Water	X	X			3	
MMW-8A (890-2052-5)		3/7/22	12 00	Mountain	Water	X	X			3	
MMW-19 (890-2052-6)		3/7/22	12 00	Mountain	Water	X	X			3	
MMW-16 (890-2052-7)		3/7/22	12 33	Mountain	Water	X	X			3	
MMW-12 (890-2052-8)		3/7/22	12 50	Mountain	Water	X	X			3	
MMW-7A (890-2052-9)		3/7/22	13 30	Mountain	Water	X	X			3	
<p>Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte &amp; 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/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.</p>											
<b>Possible Hazard Identification</b>											
<b>Unconfirmed</b>											
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank: 2											
<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>											
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months											
Special Instructions/QC Requirements											
Empty Kit Relinquished by: Date: Time: Method of Shipment:											
Relinquished by: Date/Time: Company: Received by: Date/Time: Company: 3/9/22 11:25											
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:											
Custody Seals Intact: Custody Seal No Cooler Temperature(s) °C and Other Remarks: 2.0/1.9											
A Yes A No											



## Eurofins Carlsbad

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

## Chain of Custody Record



## Environment Testing

[illegible]

## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2052-1

Login Number: 2052

List Source: Eurofins Carlsbad

List Number: 1

Creator: Clifton, Cloe

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

## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2052-1

Login Number: 2052

List Source: Eurofins Houston

List Number: 3

List Creation: 03/09/22 01:34 PM

Creator: Milone, Jeancarlo

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



## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2052-1

Login Number: 2052

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 03/09/22 11:25 AM

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



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2386-1

Laboratory Sample Delivery Group: Lea County NM  
Client Project/Site: Kimbrough

**For:**

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

Attn: David Adkins

Authorized for release by:  
6/15/2022 10:52:07 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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: Kimbrough

Laboratory Job ID: 890-2386-1  
SDG: Lea County NM

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## Definitions/Glossary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

## Qualifiers

## GC VOA

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

## Glossary

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

Case Narrative

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

Job ID: 890-2386-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative  
890-2386-1

Receipt

The samples were received on 6/7/2022 4:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

GC VOA

Method 8021B: The following sample was received outside of holding time: (880-15492-A-9).

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

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

Client Sample ID: MW-17

Lab Sample ID: 890-2386-1

Date Collected: 06/07/22 10:35

Matrix: Water

Date Received: 06/07/22 16:21

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/14/22 12:18	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/14/22 12:18	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/14/22 12:18	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/14/22 12:18	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/14/22 12:18	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/14/22 12:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130		06/14/22 12:18	1
1,4-Difluorobenzene (Surr)	102		70 - 130		06/14/22 12:18	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			06/15/22 10:29	1

Client Sample ID: MW-18

Lab Sample ID: 890-2386-2

Date Collected: 06/07/22 10:10

Matrix: Water

Date Received: 06/07/22 16:21

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/14/22 12:45	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/14/22 12:45	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/14/22 12:45	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/14/22 12:45	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/14/22 12:45	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/14/22 12:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130		06/14/22 12:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130		06/14/22 12:45	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			06/15/22 10:29	1

Client Sample ID: MW-16

Lab Sample ID: 890-2386-3

Date Collected: 06/07/22 09:35

Matrix: Water

Date Received: 06/07/22 16:21

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/14/22 13:11	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/14/22 13:11	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/14/22 13:11	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/14/22 13:11	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/14/22 13:11	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/14/22 13:11	1

Eurofins Carlsbad



## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

Client Sample ID: MW-16

Lab Sample ID: 890-2386-3

Date Collected: 06/07/22 09:35

Matrix: Water

Date Received: 06/07/22 16:21

Sample Depth: N/A

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		06/14/22 13:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130		06/14/22 13:11	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			06/15/22 10:29	1

Client Sample ID: MW-1A

Lab Sample ID: 890-2386-4

Date Collected: 06/07/22 11:20

Matrix: Water

Date Received: 06/07/22 16:21

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/14/22 13:37	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/14/22 13:37	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/14/22 13:37	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/14/22 13:37	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/14/22 13:37	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/14/22 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		06/14/22 13:37	1
1,4-Difluorobenzene (Surr)	107		70 - 130		06/14/22 13:37	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			06/15/22 10:29	1

Client Sample ID: MW-7A

Lab Sample ID: 890-2386-5

Date Collected: 06/07/22 11:00

Matrix: Water

Date Received: 06/07/22 16:21

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/14/22 14:03	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/14/22 14:03	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/14/22 14:03	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/14/22 14:03	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/14/22 14:03	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/14/22 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130		06/14/22 14:03	1
1,4-Difluorobenzene (Surr)	107		70 - 130		06/14/22 14:03	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			06/15/22 10:29	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

Client Sample ID: MW-19

Lab Sample ID: 890-2386-6

Date Collected: 06/07/22 11:30

Matrix: Water

Date Received: 06/07/22 16:21

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/14/22 14:30	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/14/22 14:30	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/14/22 14:30	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/14/22 14:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/14/22 14:30	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/14/22 14:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130		06/14/22 14:30	1
1,4-Difluorobenzene (Surr)	102		70 - 130		06/14/22 14:30	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			06/15/22 10:29	1

Client Sample ID: MW-8A

Lab Sample ID: 890-2386-7

Date Collected: 06/07/22 10:00

Matrix: Water

Date Received: 06/07/22 16:21

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/14/22 14:56	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/14/22 14:56	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/14/22 14:56	1
m-Xylene & p-Xylene	0.00114	J	0.00400	0.000629	mg/L			06/14/22 14:56	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/14/22 14:56	1
Xylenes, Total	0.00114	J	0.00400	0.000642	mg/L			06/14/22 14:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		06/14/22 14:56	1
1,4-Difluorobenzene (Surr)	97		70 - 130		06/14/22 14:56	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00114	J	0.00400	0.000657	mg/L			06/15/22 10:29	1

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## Surrogate Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
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	DFBZ1
		(70-130)	(70-130)
880-15492-A-9 MS	Matrix Spike	100	99
880-15492-A-9 MSD	Matrix Spike Duplicate	99	101
890-2386-1	MW-17	100	102
890-2386-2	MW-18	79	98
890-2386-3	MW-16	98	98
890-2386-4	MW-1A	99	107
890-2386-5	MW-7A	106	107
890-2386-6	MW-19	89	102
890-2386-7	MW-8A	98	97
LCS 880-27467/3	Lab Control Sample	106	94
LCSD 880-27467/4	Lab Control Sample Dup	97	104
MB 880-27467/8	Method Blank	75	93

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

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

Lab Sample ID: MB 880-27467/8

Matrix: Water

Analysis Batch: 27467

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/14/22 11:26	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/14/22 11:26	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/14/22 11:26	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/14/22 11:26	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/14/22 11:26	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/14/22 11:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130		06/14/22 11:26	1
1,4-Difluorobenzene (Surr)	93		70 - 130		06/14/22 11:26	1

Lab Sample ID: LCS 880-27467/3

Matrix: Water

Analysis Batch: 27467

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	0.08521		mg/L		85	70 - 130
Toluene	0.100	0.08562		mg/L		86	70 - 130
Ethylbenzene	0.100	0.09219		mg/L		92	70 - 130
m-Xylene & p-Xylene	0.200	0.1844		mg/L		92	70 - 130
o-Xylene	0.100	0.09287		mg/L		93	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-27467/4

Matrix: Water

Analysis Batch: 27467

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	0.1028		mg/L		103	70 - 130	19	20
Toluene	0.100	0.09708		mg/L		97	70 - 130	13	20
Ethylbenzene	0.100	0.09449		mg/L		94	70 - 130	2	20
m-Xylene & p-Xylene	0.200	0.1569		mg/L		78	70 - 130	16	20
o-Xylene	0.100	0.08329		mg/L		83	70 - 130	11	20

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

Lab Sample ID: 880-15492-A-9 MS

Matrix: Water

Analysis Batch: 27467

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000408	U	0.100	0.07123		mg/L		71	70 - 130
Toluene	<0.000367	U	0.100	0.07022		mg/L		70	70 - 130

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

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

Lab Sample ID: 880-15492-A-9 MS

Matrix: Water

Analysis Batch: 27467

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.000657	U	0.100	0.07696		mg/L		77	70 - 130
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1518		mg/L		76	70 - 130
o-Xylene	<0.000642	U	0.100	0.07932		mg/L		79	70 - 130

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

Lab Sample ID: 880-15492-A-9 MSD

Matrix: Water

Analysis Batch: 27467

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U	0.100	0.07748		mg/L		77	70 - 130	8	25
Toluene	<0.000367	U	0.100	0.07734		mg/L		77	70 - 130	10	25
Ethylbenzene	<0.000657	U	0.100	0.08519		mg/L		85	70 - 130	10	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1698		mg/L		85	70 - 130	11	25
o-Xylene	<0.000642	U	0.100	0.08510		mg/L		85	70 - 130	7	25

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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## QC Association Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

## GC VOA

## Analysis Batch: 27467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2386-1	MW-17	Total/NA	Water	8021B	
890-2386-2	MW-18	Total/NA	Water	8021B	
890-2386-3	MW-16	Total/NA	Water	8021B	
890-2386-4	MW-1A	Total/NA	Water	8021B	
890-2386-5	MW-7A	Total/NA	Water	8021B	
890-2386-6	MW-19	Total/NA	Water	8021B	
890-2386-7	MW-8A	Total/NA	Water	8021B	
MB 880-27467/8	Method Blank	Total/NA	Water	8021B	
LCS 880-27467/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-27467/4	Lab Control Sample Dup	Total/NA	Water	8021B	
880-15492-A-9 MS	Matrix Spike	Total/NA	Water	8021B	
880-15492-A-9 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

## Analysis Batch: 27600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2386-1	MW-17	Total/NA	Water	Total BTEX	
890-2386-2	MW-18	Total/NA	Water	Total BTEX	
890-2386-3	MW-16	Total/NA	Water	Total BTEX	
890-2386-4	MW-1A	Total/NA	Water	Total BTEX	
890-2386-5	MW-7A	Total/NA	Water	Total BTEX	
890-2386-6	MW-19	Total/NA	Water	Total BTEX	
890-2386-7	MW-8A	Total/NA	Water	Total BTEX	



## Lab Chronicle

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

**Client Sample ID: MW-17****Date Collected: 06/07/22 10:35****Date Received: 06/07/22 16:21****Lab Sample ID: 890-2386-1****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			27467	06/14/22 12:18	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27600	06/15/22 10:29	SM	XEN MID

**Client Sample ID: MW-18****Date Collected: 06/07/22 10:10****Date Received: 06/07/22 16:21****Lab Sample ID: 890-2386-2****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			27467	06/14/22 12:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27600	06/15/22 10:29	SM	XEN MID

**Client Sample ID: MW-16****Date Collected: 06/07/22 09:35****Date Received: 06/07/22 16:21****Lab Sample ID: 890-2386-3****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			27467	06/14/22 13:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27600	06/15/22 10:29	SM	XEN MID

**Client Sample ID: MW-1A****Date Collected: 06/07/22 11:20****Date Received: 06/07/22 16:21****Lab Sample ID: 890-2386-4****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			27467	06/14/22 13:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27600	06/15/22 10:29	SM	XEN MID

**Client Sample ID: MW-7A****Date Collected: 06/07/22 11:00****Date Received: 06/07/22 16:21****Lab Sample ID: 890-2386-5****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			27467	06/14/22 14:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27600	06/15/22 10:29	SM	XEN MID

**Client Sample ID: MW-19****Date Collected: 06/07/22 11:30****Date Received: 06/07/22 16:21****Lab Sample ID: 890-2386-6****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			27467	06/14/22 14:30	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27600	06/15/22 10:29	SM	XEN MID

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Lab Chronicle

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

Client Sample ID: MW-8A  
Date Collected: 06/07/22 10:00  
Date Received: 06/07/22 16:21

Lab Sample ID: 890-2386-7  
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			27467	06/14/22 14:56	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27600	06/15/22 10:29	SM	XEN MID

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

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- 2
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Accreditation/Certification Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

## Method Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

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

**Protocol References:**

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

Sample Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2386-1  
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2386-1	MW-17	Water	06/07/22 10:35	06/07/22 16:21	N/A
890-2386-2	MW-18	Water	06/07/22 10:10	06/07/22 16:21	N/A
890-2386-3	MW-16	Water	06/07/22 09:35	06/07/22 16:21	N/A
890-2386-4	MW-1A	Water	06/07/22 11:20	06/07/22 16:21	N/A
890-2386-5	MW-7A	Water	06/07/22 11:00	06/07/22 16:21	N/A
890-2386-6	MW-19	Water	06/07/22 11:30	06/07/22 16:21	N/A
890-2386-7	MW-8A	Water	06/07/22 10:00	06/07/22 16:21	N/A



## 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

Environment Testing  
Xenco

Work Order No:

www.xenco.com Page 1 of 1

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Reporting: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Manager: David Adkins

Company Name: Talon LPE

Address: 408 Texas St.

City, State ZIP: Artesia, NM 88210

Phone: 575-441-4835

Bill to: (if different)

Company Name: Plains All American

Address: Pipeline

City, State ZIP: Attn: Camille Bryant

Email: SRS # 2000-10757

dadkins@talonlpe.com

Project Name: Kimbrough		Turn Around		Pres. Code		ANALYSIS REQUEST		Preservative Codes	
Project Number:	Due Date:	Temp Blank:	Wet Ice:	Thermometer ID:	Correction Factor:	Temperature Reading:	Corrected Temperature:	Sample Comments	
Project Location: Lea County	TAT starts the day received by the lab, if received by 4:30pm	Yes No	Yes No	Thermometer ID: T-10007	Correction Factor: -0.2	Temperature Reading: 5.8	Corrected Temperature: 5.6		
Sampler's Name: M. Gomez, R. Bell		Yes No	Yes No						
P.O. #: SRS # 2000-10757		Yes No	Yes No						
SAMPLE RECEIPT									
Samples Received Intact:	Yes No	Temp Blank:	Yes No	Wet Ice:	Yes No	Thermometer ID:	Correction Factor:	Temperature Reading:	
Cooler Custody Seals:	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	
Sample Custody Seals:	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	Yes No	
Total Containers:									
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont			
MW-17	GW	6/7/22	10:35	N/A		3			
MW-18			10:10						
MW-16			9:35						
MW-1A			11:20						
MW-7A			11:00						
MW-19			11:30						
MW-8A			10:00						

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<sub>2</sub> Na Sr Ti Sn U V Zn

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Matthew Gomez	Aracela Sufi	6/7/22 10:21			

Revised Date: 08/25/2020 Rev. 2020.2



## Eurofine Carlebad

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

## Chain of Custody Record



### Environment Testing

<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab PM	Carrier Tracking No(s)	COC No						
Client Contact:	Shipping/Receiving	Phone	Kramer Jessica		890-784 1						
Company:	Eurofins Environment Testing South Cent		E-Mail: Jessica.Kramer@et.eurofins.com	State of Origin New Mexico	Page 1 of 1						
Address		Due Date Requested	Accreditations Required (See note): NELAP - Texas	Job #:	890-2386-1						
1211 W Florida Ave	6/13/2022										
City:	TAT Requested (days):	<b>Analysis Requested</b>									
Midland											
State, Zip											
TX, 79701											
Phone	PO #:										
432-704-5440(Tel)	WO #:										
Email	Project #										
	89000047										
Project Name	SSOW#										
Kimbrough											
Site											
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=other, A=air)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>8021B/5030B BTEX</b>	<b>Total_BTEX_GCV</b>	<b>Total Number of containers</b>	<b>Special Instructions/Note:</b>
MW-17 (890-2386-1)	6/7/22	10 35	Mountain	Water	X	X					
MW-18 (890-2386-2)	6/7/22	10 10	Mountain	Water	X	X					
MW-16 (890-2386-3)	6/7/22	09 35	Mountain	Water	X	X					
MW-1A (890-2386-4)	6/7/22	11 20	Mountain	Water	X	X					
MW-7A (890-2386-5)	6/7/22	11 00	Mountain	Water	X	X					
MW-19 (890-2386-6)	6/7/22	11 30	Mountain	Water	X	X					
MW-8A (890-2386-7)	6/7/22	10 00	Mountain	Water	X	X					
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central LLC.											
<b>Possible Hazard Identification</b>		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>									
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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							
Relinquished by		Date/Time	Company	Received by							
Relinquished by		Date/Time	Company	Received by							
Custody Seals Intact:		Custody Seal No		Cooler Temperature(s) °C and Other Remarks							
A Yes A No				2/1.0 22 TBQ							

## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2386-1

SDG Number: Lea County NM

Login Number: 2386

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: 890-2386-1

SDG Number: Lea County NM

**Login Number: 2386****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 06/09/22 11:15 AM**

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



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2980-1

Laboratory Sample Delivery Group: Lea County  
Client Project/Site: Kimbrough

For:

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

Attn: David Adkins

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
10/3/2022 9:15:21 AM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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: Kimbrough

Laboratory Job ID: 890-2980-1  
SDG: Lea County

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## Definitions/Glossary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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



Case Narrative

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

Job ID: 890-2980-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative  
890-2980-1

Receipt

The samples were received on 9/15/2022 2:18 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-35357 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.

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

Client Sample ID: MW-18

Lab Sample ID: 890-2980-1

Date Collected: 09/15/22 12:34

Matrix: Water

Date Received: 09/15/22 14:18

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/27/22 05:48	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/27/22 05:48	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/27/22 05:48	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/27/22 05:48	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/27/22 05:48	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/27/22 05:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130		09/27/22 05:48	1
1,4-Difluorobenzene (Surr)	83		70 - 130		09/27/22 05:48	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/27/22 09:56	1

Client Sample ID: MW-16

Lab Sample ID: 890-2980-2

Date Collected: 09/15/22 10:55

Matrix: Water

Date Received: 09/15/22 14:18

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/27/22 06:08	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/27/22 06:08	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/27/22 06:08	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/27/22 06:08	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/27/22 06:08	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/27/22 06:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130		09/27/22 06:08	1
1,4-Difluorobenzene (Surr)	89		70 - 130		09/27/22 06:08	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/27/22 09:56	1

Client Sample ID: MW-1A

Lab Sample ID: 890-2980-3

Date Collected: 09/15/22 10:05

Matrix: Water

Date Received: 09/15/22 14:18

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/27/22 06:29	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/27/22 06:29	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/27/22 06:29	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/27/22 06:29	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/27/22 06:29	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/27/22 06:29	1

Eurofins Carlsbad

## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

## Client Sample ID: MW-1A

## Lab Sample ID: 890-2980-3

Date Collected: 09/15/22 10:05

Matrix: Water

Date Received: 09/15/22 14:18

Sample Depth: N/A

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130		09/27/22 06:29	1
1,4-Difluorobenzene (Surr)	85		70 - 130		09/27/22 06:29	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/27/22 09:56	1

## Client Sample ID: MW-19

## Lab Sample ID: 890-2980-4

Date Collected: 09/15/22 12:05

Matrix: Water

Date Received: 09/15/22 14:18

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/29/22 00:42	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/29/22 00:42	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/29/22 00:42	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/29/22 00:42	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/29/22 00:42	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/29/22 00:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130		09/29/22 00:42	1
1,4-Difluorobenzene (Surr)	88		70 - 130		09/29/22 00:42	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/27/22 09:56	1

## Client Sample ID: MW-12

## Lab Sample ID: 890-2980-5

Date Collected: 09/15/22 11:34

Matrix: Water

Date Received: 09/15/22 14:18

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/29/22 01:03	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/29/22 01:03	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/29/22 01:03	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/29/22 01:03	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/29/22 01:03	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/29/22 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130		09/29/22 01:03	1
1,4-Difluorobenzene (Surr)	91		70 - 130		09/29/22 01:03	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/27/22 09:56	1

Eurofins Carlsbad

## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

Client Sample ID: MW-14

Lab Sample ID: 890-2980-6

Date Collected: 09/15/22 10:35

Matrix: Water

Date Received: 09/15/22 14:18

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/29/22 01:23	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/29/22 01:23	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/29/22 01:23	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/29/22 01:23	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/29/22 01:23	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/29/22 01:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130		09/29/22 01:23	1
1,4-Difluorobenzene (Surr)	85		70 - 130		09/29/22 01:23	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/27/22 09:56	1

Client Sample ID: MW-15

Lab Sample ID: 890-2980-7

Date Collected: 09/15/22 11:28

Matrix: Water

Date Received: 09/15/22 14:18

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/29/22 01:43	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/29/22 01:43	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/29/22 01:43	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/29/22 01:43	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/29/22 01:43	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/29/22 01:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130		09/29/22 01:43	1
1,4-Difluorobenzene (Surr)	88		70 - 130		09/29/22 01:43	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/27/22 09:56	1

Eurofins Carlsbad



## Surrogate Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
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	DFBZ1
		(70-130)	(70-130)
880-19344-A-1 MS	Matrix Spike	124	107
880-19344-A-1 MSD	Matrix Spike Duplicate	124	108
880-19344-A-8 MS	Matrix Spike	109	108
880-19344-A-8 MSD	Matrix Spike Duplicate	107	108
890-2980-1	MW-18	115	83
890-2980-2	MW-16	113	89
890-2980-3	MW-1A	110	85
890-2980-4	MW-19	114	88
890-2980-5	MW-12	117	91
890-2980-6	MW-14	115	85
890-2980-7	MW-15	114	88
LCS 880-35357/34	Lab Control Sample	121	110
LCS 880-35552/34	Lab Control Sample	113	109
LCSD 880-35357/35	Lab Control Sample Dup	117	107
LCSD 880-35552/35	Lab Control Sample Dup	111	106
MB 880-35289/5-A	Method Blank	104	93
MB 880-35357/39	Method Blank	106	94
MB 880-35366/5-A	Method Blank	103	90
MB 880-35552/39	Method Blank	103	91

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

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

Lab Sample ID: MB 880-35289/5-A

Matrix: Water

Analysis Batch: 35552

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		09/23/22 15:27	09/28/22 11:41	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		09/23/22 15:27	09/28/22 11:41	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		09/23/22 15:27	09/28/22 11:41	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		09/23/22 15:27	09/28/22 11:41	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		09/23/22 15:27	09/28/22 11:41	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		09/23/22 15:27	09/28/22 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/23/22 15:27	09/28/22 11:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/23/22 15:27	09/28/22 11:41	1

Lab Sample ID: MB 880-35357/39

Matrix: Water

Analysis Batch: 35357

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/26/22 22:38	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/26/22 22:38	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/26/22 22:38	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/26/22 22:38	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/26/22 22:38	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/26/22 22:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130		09/26/22 22:38	1
1,4-Difluorobenzene (Surr)	94		70 - 130		09/26/22 22:38	1

Lab Sample ID: LCS 880-35357/34

Matrix: Water

Analysis Batch: 35357

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	0.09811		mg/L		98	70 - 130
Toluene	0.100	0.08653		mg/L		87	70 - 130
Ethylbenzene	0.100	0.09304		mg/L		93	70 - 130
m-Xylene & p-Xylene	0.200	0.1912		mg/L		96	70 - 130
o-Xylene	0.100	0.1168		mg/L		117	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-35357/35

Matrix: Water

Analysis Batch: 35357

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	0.08994		mg/L		90	70 - 130	9	20

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

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

Lab Sample ID: LCSD 880-35357/35

Matrix: Water

Analysis Batch: 35357

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08110		mg/L		81	70 - 130	6	20
Ethylbenzene	0.100	0.08449		mg/L		84	70 - 130	10	20
m-Xylene & p-Xylene	0.200	0.1744		mg/L		87	70 - 130	9	20
o-Xylene	0.100	0.09833		mg/L		98	70 - 130	17	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-19344-A-1 MS

Matrix: Water

Analysis Batch: 35357

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000408	U F1	0.100	0.06104	F1	mg/L		61	70 - 130
Toluene	0.000724	J F1	0.100	0.05646	F1	mg/L		56	70 - 130
Ethylbenzene	<0.000657	U F1	0.100	0.06029	F1	mg/L		60	70 - 130
m-Xylene & p-Xylene	0.000797	J F1	0.200	0.1263	F1	mg/L		63	70 - 130
o-Xylene	<0.000642	U	0.100	0.07986		mg/L		80	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-19344-A-1 MSD

Matrix: Water

Analysis Batch: 35357

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U F1	0.100	0.06141	F1	mg/L		61	70 - 130	1	25
Toluene	0.000724	J F1	0.100	0.05587	F1	mg/L		55	70 - 130	1	25
Ethylbenzene	<0.000657	U F1	0.100	0.06025	F1	mg/L		60	70 - 130	0	25
m-Xylene & p-Xylene	0.000797	J F1	0.200	0.1254	F1	mg/L		62	70 - 130	1	25
o-Xylene	<0.000642	U	0.100	0.07720		mg/L		77	70 - 130	3	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: MB 880-35366/5-A

Matrix: Water

Analysis Batch: 35357

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		09/26/22 09:51	09/26/22 12:02	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		09/26/22 09:51	09/26/22 12:02	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		09/26/22 09:51	09/26/22 12:02	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		09/26/22 09:51	09/26/22 12:02	1

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

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

Lab Sample ID: MB 880-35366/5-A

Matrix: Water

Analysis Batch: 35357

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35366

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		09/26/22 09:51	09/26/22 12:02	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		09/26/22 09:51	09/26/22 12:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				09/26/22 09:51	09/26/22 12:02	1
1,4-Difluorobenzene (Surr)	90		70 - 130				09/26/22 09:51	09/26/22 12:02	1

Lab Sample ID: MB 880-35552/39

Matrix: Water

Analysis Batch: 35552

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/28/22 22:18	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/28/22 22:18	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/28/22 22:18	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/28/22 22:18	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/28/22 22:18	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/28/22 22:18	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130					09/28/22 22:18	1
1,4-Difluorobenzene (Surr)	91		70 - 130					09/28/22 22:18	1

Lab Sample ID: LCS 880-35552/34

Matrix: Water

Analysis Batch: 35552

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	0.09190		mg/L		92	70 - 130
Toluene	0.100	0.08395		mg/L		84	70 - 130
Ethylbenzene	0.100	0.08364		mg/L		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1715		mg/L		86	70 - 130
o-Xylene	0.100	0.09928		mg/L		99	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	113		70 - 130				
1,4-Difluorobenzene (Surr)	109		70 - 130				

Lab Sample ID: LCSD 880-35552/35

Matrix: Water

Analysis Batch: 35552

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	0.08742		mg/L		87	70 - 130	5	20
Toluene	0.100	0.08031		mg/L		80	70 - 130	4	20
Ethylbenzene	0.100	0.08227		mg/L		82	70 - 130	2	20
m-Xylene & p-Xylene	0.200	0.1676		mg/L		84	70 - 130	2	20
o-Xylene	0.100	0.09709		mg/L		97	70 - 130	2	20

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	106		70 - 130

Lab Sample ID: 880-19344-A-8 MS  
Matrix: Water  
Analysis Batch: 35552

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.000408	U	0.100	0.1076		mg/L		108	70 - 130
Toluene	<0.000367	U	0.100	0.09488		mg/L		95	70 - 130
Ethylbenzene	<0.000657	U	0.100	0.09307		mg/L		93	70 - 130
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1899		mg/L		95	70 - 130
o-Xylene	<0.000642	U	0.100	0.1098		mg/L		110	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-19344-A-8 MSD  
Matrix: Water  
Analysis Batch: 35552

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.000408	U	0.100	0.1137		mg/L		114	70 - 130	5	25
Toluene	<0.000367	U	0.100	0.1008		mg/L		101	70 - 130	6	25
Ethylbenzene	<0.000657	U	0.100	0.09808		mg/L		98	70 - 130	5	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.2011		mg/L		101	70 - 130	6	25
o-Xylene	<0.000642	U	0.100	0.1162		mg/L		116	70 - 130	6	25

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

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## QC Association Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

## GC VOA

## Prep Batch: 35289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35289/5-A	Method Blank	Total/NA	Water	5035	

## Analysis Batch: 35357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2980-1	MW-18	Total/NA	Water	8021B	
890-2980-2	MW-16	Total/NA	Water	8021B	
890-2980-3	MW-1A	Total/NA	Water	8021B	
MB 880-35357/39	Method Blank	Total/NA	Water	8021B	
MB 880-35366/5-A	Method Blank	Total/NA	Water	8021B	35366
LCS 880-35357/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-35357/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-19344-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
880-19344-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

## Prep Batch: 35366

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35366/5-A	Method Blank	Total/NA	Water	5035	

## Analysis Batch: 35491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2980-1	MW-18	Total/NA	Water	Total BTEX	
890-2980-2	MW-16	Total/NA	Water	Total BTEX	
890-2980-3	MW-1A	Total/NA	Water	Total BTEX	
890-2980-4	MW-19	Total/NA	Water	Total BTEX	
890-2980-5	MW-12	Total/NA	Water	Total BTEX	
890-2980-6	MW-14	Total/NA	Water	Total BTEX	
890-2980-7	MW-15	Total/NA	Water	Total BTEX	

## Analysis Batch: 35552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2980-4	MW-19	Total/NA	Water	8021B	
890-2980-5	MW-12	Total/NA	Water	8021B	
890-2980-6	MW-14	Total/NA	Water	8021B	
890-2980-7	MW-15	Total/NA	Water	8021B	
MB 880-35289/5-A	Method Blank	Total/NA	Water	8021B	35289
MB 880-35552/39	Method Blank	Total/NA	Water	8021B	
LCS 880-35552/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-35552/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-19344-A-8 MS	Matrix Spike	Total/NA	Water	8021B	
880-19344-A-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

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## Lab Chronicle

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

Client Sample ID: MW-18

Lab Sample ID: 890-2980-1

Date Collected: 09/15/22 12:34

Matrix: Water

Date Received: 09/15/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	35357	09/27/22 05:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35491	09/27/22 09:56	AJ	EET MID

Client Sample ID: MW-16

Lab Sample ID: 890-2980-2

Date Collected: 09/15/22 10:55

Matrix: Water

Date Received: 09/15/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	35357	09/27/22 06:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35491	09/27/22 09:56	AJ	EET MID

Client Sample ID: MW-1A

Lab Sample ID: 890-2980-3

Date Collected: 09/15/22 10:05

Matrix: Water

Date Received: 09/15/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	35357	09/27/22 06:29	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35491	09/27/22 09:56	AJ	EET MID

Client Sample ID: MW-19

Lab Sample ID: 890-2980-4

Date Collected: 09/15/22 12:05

Matrix: Water

Date Received: 09/15/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/29/22 00:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35491	09/27/22 09:56	AJ	EET MID

Client Sample ID: MW-12

Lab Sample ID: 890-2980-5

Date Collected: 09/15/22 11:34

Matrix: Water

Date Received: 09/15/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/29/22 01:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35491	09/27/22 09:56	AJ	EET MID

Client Sample ID: MW-14

Lab Sample ID: 890-2980-6

Date Collected: 09/15/22 10:35

Matrix: Water

Date Received: 09/15/22 14:18

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	35552	09/29/22 01:23	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35491	09/27/22 09:56	AJ	EET MID

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Lab Chronicle

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

Client Sample ID: MW-15  
Date Collected: 09/15/22 11:28  
Date Received: 09/15/22 14:18

Lab Sample ID: 890-2980-7  
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	35552	09/29/22 01:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			35491	09/27/22 09:56	AJ	EET MID

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

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

Accreditation/Certification Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

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

Method Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

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

**Protocol References:**

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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



## Sample Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2980-1  
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2980-1	MW-18	Water	09/15/22 12:34	09/15/22 14:18	N/A
890-2980-2	MW-16	Water	09/15/22 10:55	09/15/22 14:18	N/A
890-2980-3	MW-1A	Water	09/15/22 10:05	09/15/22 14:18	N/A
890-2980-4	MW-19	Water	09/15/22 12:05	09/15/22 14:18	N/A
890-2980-5	MW-12	Water	09/15/22 11:34	09/15/22 14:18	N/A
890-2980-6	MW-14	Water	09/15/22 10:35	09/15/22 14:18	N/A
890-2980-7	MW-15	Water	09/15/22 11:28	09/15/22 14:18	N/A



Environment Testing  
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 998-3199

Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com Page 1 of 1

Project Manager:	David Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	Attn: Camille Bryant
Address:	408 Texas St.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2000-10757
Phone:	575-441-4835	Email:	dadkins@talonlpe.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Kimbrough	Turn Around	Pres. Code	ANALYSIS REQUEST																Preservative Codes		
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																		None: NO	DI Water: H <sub>2</sub> O	
Project Location:	Lea, County	Due Date:																		Cool: Cool	MeOH: Me	
Sampler's Name:	M. Gomez, K. Taylor	TAT starts the day received by the lab, if received by 4:30pm																		HCL: HC	HNO <sub>3</sub> : HN	
PO #:	SRS# 2000-10757																			H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																	H <sub>3</sub> PO <sub>4</sub> : HP	
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:	Tm-002																		NaHSO <sub>4</sub> : NABIS	
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	-0.2																		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:	5.2																		Zn Acetate+NaOH: Zn	
Total Containers:		Corrected Temperature:	5.0																		NaOH+Ascorbic Acid: SAPC	



890-2980 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BTEX 80																Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
MW-18	GW	9/15/22	12:34	N/A		3	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					

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<sub>2</sub> Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
M. Gomez	Amanda Stutz	9/15/22 14:18			



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

Chain of Custody Record



Environment Testing  
America

<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab PM	Carrier Tracking No(s):	COC No:
Client Contact	Shipping/Receiving	Phone:	Kramer Jessica		890-926-1
Company		E-Mail	Jessica.Kramer@eurofins.com	State of Origin	Page 1 of 1
Eurofins Environment Testing South Center		Accreditations Required (See note):		New Mexico	Job #:
Address		NEIAP - Texas			890-2980-1
1211 W Florida Ave	Due Date Requested	Analysis Requested			
Midland	9/21/2022				
State Zip:	TAT Requested (days):				
TX, 79701					
Phone	PO #				
432-704-5440(Tel)	WO #				
Email	Project #:				
	89000047				
Project Name	SSCW#				
Kimbrough					
Site					
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=wastewater, BT=Tissue, A=Air)
MMW-18 (890-2980-1)	9/15/22	12 34	Mountain	Water	X
MMW-16 (890-2980-2)	9/15/22	10 55	Mountain	Water	X
MMW-1A (890-2980-3)	9/15/22	10 05	Mountain	Water	X
MMW-19 (890-2980-4)	9/15/22	12 05	Mountain	Water	X
MMW-12 (890-2980-5)	9/15/22	11 34	Mountain	Water	X
MMW-14 (890-2980-6)	9/15/22	10 35	Mountain	Water	X
MMW-15 (890-2980-7)	9/15/22	11 28	Mountain	Water	X
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Center, 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 analytes/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Center, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Center, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Center, LLC.					
<b>Possible Hazard Identification</b>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed		<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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 <i>Clue</i>		Date/Time:		Date/Time	
Relinquished by		Date/Time:		Date/Time	
Relinquished by		Date/Time:		Date/Time	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No		Cooler Temperature(s) °C and Other Remarks:	

## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2980-1

SDG Number: Lea County

Login Number: 2980

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: 890-2980-1

SDG Number: Lea County

Login Number: 2980

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 09/19/22 08:28 AM

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





## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2987-1

Laboratory Sample Delivery Group: Lea County  
Client Project/Site: Kimbrough

**For:**

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

Attn: David Adkins

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

9/29/2022 1:17:16 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



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[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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: Kimbrough

Laboratory Job ID: 890-2987-1  
SDG: Lea County

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## Definitions/Glossary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
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.

## Glossary

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

Case Narrative

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
SDG: Lea County

Job ID: 890-2987-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative  
890-2987-1

Receipt

The samples were received on 9/16/2022 12:40 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

GC VOA

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

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
SDG: Lea County

Client Sample ID: MW-17

Lab Sample ID: 890-2987-1

Date Collected: 09/16/22 10:20

Matrix: Water

Date Received: 09/16/22 12:40

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/29/22 03:05	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/29/22 03:05	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/29/22 03:05	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/29/22 03:05	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/29/22 03:05	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/29/22 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130		09/29/22 03:05	1
1,4-Difluorobenzene (Surr)	83		70 - 130		09/29/22 03:05	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/29/22 08:09	1

Client Sample ID: MW-7A

Lab Sample ID: 890-2987-2

Date Collected: 09/16/22 11:00

Matrix: Water

Date Received: 09/16/22 12:40

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/29/22 03:25	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/29/22 03:25	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/29/22 03:25	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/29/22 03:25	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/29/22 03:25	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/29/22 03:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130		09/29/22 03:25	1
1,4-Difluorobenzene (Surr)	84		70 - 130		09/29/22 03:25	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			09/29/22 08:09	1

Client Sample ID: MW-8A

Lab Sample ID: 890-2987-3

Date Collected: 09/16/22 09:45

Matrix: Water

Date Received: 09/16/22 12:40

Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000427	J	0.00200	0.000408	mg/L			09/29/22 03:46	1
Toluene	0.000409	J	0.00200	0.000367	mg/L			09/29/22 03:46	1
Ethylbenzene	0.00193	J	0.00200	0.000657	mg/L			09/29/22 03:46	1
m-Xylene & p-Xylene	0.00344	J	0.00400	0.000629	mg/L			09/29/22 03:46	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/29/22 03:46	1
Xylenes, Total	0.00344	J	0.00400	0.000642	mg/L			09/29/22 03:46	1

Eurofins Carlsbad



Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
SDG: Lea County

Client Sample ID: MW-8A  
Date Collected: 09/16/22 09:45  
Date Received: 09/16/22 12:40  
Sample Depth: N/A

Lab Sample ID: 890-2987-3  
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130		09/29/22 03:46	1
1,4-Difluorobenzene (Surr)	92		70 - 130		09/29/22 03:46	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00621		0.00400	0.000657	mg/L			09/29/22 08:09	1

Surrogate Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
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)
880-19344-A-8 MS	Matrix Spike	109	108
880-19344-A-8 MSD	Matrix Spike Duplicate	107	108
890-2987-1	MW-17	111	83
890-2987-2	MW-7A	108	84
890-2987-3	MW-8A	116	92
LCS 880-35552/34	Lab Control Sample	113	109
LCSD 880-35552/35	Lab Control Sample Dup	111	106
MB 880-35289/5-A	Method Blank	104	93
MB 880-35552/39	Method Blank	103	91
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
SDG: Lea County

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

Lab Sample ID: MB 880-35289/5-A

Matrix: Water

Analysis Batch: 35552

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 35289

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		09/23/22 15:27	09/28/22 11:41	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		09/23/22 15:27	09/28/22 11:41	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		09/23/22 15:27	09/28/22 11:41	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		09/23/22 15:27	09/28/22 11:41	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		09/23/22 15:27	09/28/22 11:41	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		09/23/22 15:27	09/28/22 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	09/23/22 15:27	09/28/22 11:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130	09/23/22 15:27	09/28/22 11:41	1

Lab Sample ID: MB 880-35552/39

Matrix: Water

Analysis Batch: 35552

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			09/28/22 22:18	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			09/28/22 22:18	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			09/28/22 22:18	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			09/28/22 22:18	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			09/28/22 22:18	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			09/28/22 22:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		09/28/22 22:18	1
1,4-Difluorobenzene (Surr)	91		70 - 130		09/28/22 22:18	1

Lab Sample ID: LCS 880-35552/34

Matrix: Water

Analysis Batch: 35552

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	0.09190		mg/L		92	70 - 130
Toluene	0.100	0.08395		mg/L		84	70 - 130
Ethylbenzene	0.100	0.08364		mg/L		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1715		mg/L		86	70 - 130
o-Xylene	0.100	0.09928		mg/L		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: LCSD 880-35552/35

Matrix: Water

Analysis Batch: 35552

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	0.08742		mg/L		87	70 - 130	5	20

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## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
SDG: Lea County

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

Lab Sample ID: LCSD 880-35552/35

Matrix: Water

Analysis Batch: 35552

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08031		mg/L		80	70 - 130	4	20
Ethylbenzene	0.100	0.08227		mg/L		82	70 - 130	2	20
m-Xylene & p-Xylene	0.200	0.1676		mg/L		84	70 - 130	2	20
o-Xylene	0.100	0.09709		mg/L		97	70 - 130	2	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	111		70 - 130						
1,4-Difluorobenzene (Surr)	106		70 - 130						

Lab Sample ID: 880-19344-A-8 MS

Matrix: Water

Analysis Batch: 35552

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.000408	U	0.100	0.1076		mg/L		108	70 - 130		
Toluene	<0.000367	U	0.100	0.09488		mg/L		95	70 - 130		
Ethylbenzene	<0.000657	U	0.100	0.09307		mg/L		93	70 - 130		
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1899		mg/L		95	70 - 130		
o-Xylene	<0.000642	U	0.100	0.1098		mg/L		110	70 - 130		
											</

Lab Sample ID: 880-19344-A-8 MSD

Matrix: Water

Analysis Batch: 35552

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.000408	U	0.100	0.1137		mg/L		114	70 - 130	5	25
Toluene	<0.000367	U	0.100	0.1008		mg/L		101	70 - 130	6	25
Ethylbenzene	<0.000657	U	0.100	0.09808		mg/L		98	70 - 130	5	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.2011		mg/L		101	70 - 130	6	25
o-Xylene	<0.000642	U	0.100	0.1162		mg/L		116	70 - 130	6	25

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## QC Association Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
SDG: Lea County

## GC VOA

## Prep Batch: 35289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-35289/5-A	Method Blank	Total/NA	Water	5035	

## Analysis Batch: 35552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2987-1	MW-17	Total/NA	Water	8021B	
890-2987-2	MW-7A	Total/NA	Water	8021B	
890-2987-3	MW-8A	Total/NA	Water	8021B	
MB 880-35289/5-A	Method Blank	Total/NA	Water	8021B	35289
MB 880-35552/39	Method Blank	Total/NA	Water	8021B	
LCS 880-35552/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-35552/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-19344-A-8 MS	Matrix Spike	Total/NA	Water	8021B	
880-19344-A-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	

## Analysis Batch: 35648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2987-1	MW-17	Total/NA	Water	Total BTEX	
890-2987-2	MW-7A	Total/NA	Water	Total BTEX	
890-2987-3	MW-8A	Total/NA	Water	Total BTEX	



## Lab Chronicle

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
SDG: Lea County

**Client Sample ID: MW-17****Lab Sample ID: 890-2987-1****Date Collected: 09/16/22 10:20****Matrix: Water****Date Received: 09/16/22 12:40**

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	35552	09/29/22 03:05	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35648	09/29/22 08:09	AJ	EET MID

**Client Sample ID: MW-7A****Lab Sample ID: 890-2987-2****Date Collected: 09/16/22 11:00****Matrix: Water****Date Received: 09/16/22 12:40**

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	35552	09/29/22 03:25	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35648	09/29/22 08:09	AJ	EET MID

**Client Sample ID: MW-8A****Lab Sample ID: 890-2987-3****Date Collected: 09/16/22 09:45****Matrix: Water****Date Received: 09/16/22 12:40**

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	35552	09/29/22 03:46	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35648	09/29/22 08:09	AJ	EET MID

**Laboratory References:**

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

Accreditation/Certification Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
SDG: Lea County

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

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- 2
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Method Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
SDG: Lea County

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

**Protocol References:**

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

## Sample Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-2987-1  
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2987-1	MW-17	Water	09/16/22 10:20	09/16/22 12:40	N/A
890-2987-2	MW-7A	Water	09/16/22 11:00	09/16/22 12:40	N/A
890-2987-3	MW-8A	Water	09/16/22 09:45	09/16/22 12:40	N/A

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Environment Testing  
Xenco

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

Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com Page 1 of 1

Project Manager:	David Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	Attn: Camille Bryant
Address:	408 Texas St.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2000-10757
Phone:	575-441-4835	Email:	dadkins@talonpe.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Kimbrough	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:		Due Date:			
Project Location:	Lea, County	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	M. Gomez, K. Taylor				
PO #:	SRS# 2000-10757				
SAMPLE RECEIPT		Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Samples Received Inact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:			
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:			
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:			
Total Containers:		Corrected Temperature:			



890-2987 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BTX 8021B	ANALYSIS REQUEST	Preservative Codes	Sample Comments
MW-17	GW	9/16/22	10:20	N/A		3	X		None: NO DI Water: H <sub>2</sub> O	Email Analyticals to: CJBryant@paalp.com
MW-7A			11:00			1			Cool: Cool MeOH: Me	
MW-8A			9:45			1			HCL: HC HNO <sub>3</sub> : HN	Maochoa@paalp.com
									H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub> NaOH: Na	
									H <sub>3</sub> PO <sub>4</sub> : HP	
									NaHSO <sub>4</sub> : NABIS	
									Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	
									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<sub>2</sub> Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
M. Gomez	Camille Bryant	9-16-22 12:40			



## Eurofins Carlsbad

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

## Chain of Custody Record



## Environment Testing America

[illegible]

## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-2987-1

SDG Number: Lea County

Login Number: 2987

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: 890-2987-1

SDG Number: Lea County

Login Number: 2987

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 09/19/22 08:28 AM

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



Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

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

Generated 12/20/2022 11:12:57 AM

## JOB DESCRIPTION

Kimbrough  
SDG NUMBER Lea County

## JOB NUMBER

890-3584-1

Eurofins Carlsbad  
1089 N Canal St.  
Carlsbad NM 88220

**Eurofins Carlsbad****Job Notes**

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

**Authorization**

Generated  
12/20/2022 11:12:57 AM

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



Client: Talon/LPE  
Project/Site: Kimbrough

Laboratory Job ID: 890-3584-1  
SDG: Lea County

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## Definitions/Glossary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
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.

## Glossary

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

Case Narrative

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

Job ID: 890-3584-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative  
890-3584-1

Receipt

The samples were received on 12/6/2022 3:27 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C

GC VOA

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

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

Client Sample ID: MW-1A

Lab Sample ID: 890-3584-1

Date Collected: 12/06/22 11:59

Matrix: Water

Date Received: 12/06/22 15:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/20/22 04:04	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/20/22 04:04	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/20/22 04:04	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/20/22 04:04	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/20/22 04:04	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			12/20/22 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130		12/20/22 04:04	1
1,4-Difluorobenzene (Surr)	106		70 - 130		12/20/22 04:04	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/20/22 11:47	1

Client Sample ID: MW-7A

Lab Sample ID: 890-3584-2

Date Collected: 12/06/22 13:15

Matrix: Water

Date Received: 12/06/22 15:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/20/22 04:24	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/20/22 04:24	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/20/22 04:24	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/20/22 04:24	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/20/22 04:24	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			12/20/22 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130		12/20/22 04:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130		12/20/22 04:24	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/20/22 11:47	1

Client Sample ID: MW-8A

Lab Sample ID: 890-3584-3

Date Collected: 12/06/22 13:55

Matrix: Water

Date Received: 12/06/22 15:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000657	J	0.00200	0.000408	mg/L			12/20/22 04:44	1
Toluene	0.000378	J	0.00200	0.000367	mg/L			12/20/22 04:44	1
Ethylbenzene	0.00280		0.00200	0.000657	mg/L			12/20/22 04:44	1
m-Xylene & p-Xylene	0.00495		0.00400	0.000629	mg/L			12/20/22 04:44	1
o-Xylene	0.00188	J	0.00200	0.000642	mg/L			12/20/22 04:44	1
Xylenes, Total	0.00683		0.00400	0.000642	mg/L			12/20/22 04:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130		12/20/22 04:44	1
1,4-Difluorobenzene (Surr)	104		70 - 130		12/20/22 04:44	1

Eurofins Carlsbad

## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

Client Sample ID: MW-8A

Lab Sample ID: 890-3584-3

Date Collected: 12/06/22 13:55

Matrix: Water

Date Received: 12/06/22 15:27

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0107		0.00400	0.000657	mg/L			12/20/22 11:47	1

Client Sample ID: MW-16

Lab Sample ID: 890-3584-4

Date Collected: 12/06/22 12:08

Matrix: Water

Date Received: 12/06/22 15:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/20/22 05:05	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/20/22 05:05	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/20/22 05:05	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/20/22 05:05	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/20/22 05:05	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			12/20/22 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130		12/20/22 05:05	1
1,4-Difluorobenzene (Surr)	100		70 - 130		12/20/22 05:05	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/20/22 11:47	1

Client Sample ID: MW-17

Lab Sample ID: 890-3584-5

Date Collected: 12/06/22 11:04

Matrix: Water

Date Received: 12/06/22 15:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/20/22 05:25	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/20/22 05:25	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/20/22 05:25	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/20/22 05:25	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/20/22 05:25	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			12/20/22 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130		12/20/22 05:25	1
1,4-Difluorobenzene (Surr)	105		70 - 130		12/20/22 05:25	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/20/22 11:47	1

Client Sample ID: MW-18

Lab Sample ID: 890-3584-6

Date Collected: 12/06/22 11:30

Matrix: Water

Date Received: 12/06/22 15:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/20/22 05:46	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/20/22 05:46	1

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## Client Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

Client Sample ID: MW-18

Lab Sample ID: 890-3584-6

Date Collected: 12/06/22 11:30

Matrix: Water

Date Received: 12/06/22 15:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/20/22 05:46	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/20/22 05:46	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/20/22 05:46	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			12/20/22 05:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130					12/20/22 05:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130					12/20/22 05:46	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/20/22 11:47	1

Client Sample ID: MW-19

Lab Sample ID: 890-3584-7

Date Collected: 12/06/22 13:22

Matrix: Water

Date Received: 12/06/22 15:27

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/20/22 06:06	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/20/22 06:06	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/20/22 06:06	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/20/22 06:06	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/20/22 06:06	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			12/20/22 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130					12/20/22 06:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130					12/20/22 06:06	1

## Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			12/20/22 11:47	1

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Surrogate Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
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	DFBZ1
		(70-130)	(70-130)
890-3584-1	MW-1A	106	106
890-3584-2	MW-7A	102	101
890-3584-3	MW-8A	106	104
890-3584-4	MW-16	101	100
890-3584-5	MW-17	97	105
890-3584-6	MW-18	106	101
890-3584-7	MW-19	109	97
LCS 880-42128/34	Lab Control Sample	111	117
LCSD 880-42128/35	Lab Control Sample Dup	120	110
MB 880-42094/5-A	Method Blank	87	105
MB 880-42128/39	Method Blank	94	102
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

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

Lab Sample ID: MB 880-42094/5-A

Matrix: Water

Analysis Batch: 42128

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 42094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		12/17/22 15:56	12/19/22 11:41	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		12/17/22 15:56	12/19/22 11:41	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		12/17/22 15:56	12/19/22 11:41	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		12/17/22 15:56	12/19/22 11:41	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		12/17/22 15:56	12/19/22 11:41	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		12/17/22 15:56	12/19/22 11:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130	12/17/22 15:56	12/19/22 11:41	1
1,4-Difluorobenzene (Surr)	105		70 - 130	12/17/22 15:56	12/19/22 11:41	1

Lab Sample ID: MB 880-42128/39

Matrix: Water

Analysis Batch: 42128

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			12/19/22 22:15	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			12/19/22 22:15	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			12/19/22 22:15	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			12/19/22 22:15	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			12/19/22 22:15	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			12/19/22 22:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130		12/19/22 22:15	1
1,4-Difluorobenzene (Surr)	102		70 - 130		12/19/22 22:15	1

Lab Sample ID: LCS 880-42128/34

Matrix: Water

Analysis Batch: 42128

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	0.1071		mg/L		107	70 - 130
Toluene	0.100	0.1000		mg/L		100	70 - 130
Ethylbenzene	0.100	0.1042		mg/L		104	70 - 130
m-Xylene & p-Xylene	0.200	0.2172		mg/L		109	70 - 130
o-Xylene	0.100	0.1090		mg/L		109	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-42128/35

Matrix: Water

Analysis Batch: 42128

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	0.1045		mg/L		105	70 - 130	2	20

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QC Sample Results

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

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

Lab Sample ID: LCSD 880-42128/35					Client Sample ID: Lab Control Sample Dup						
Matrix: Water					Prep Type: Total/NA						
Analysis Batch: 42128											
				Spike	LCSD	LCSD			%Rec		RPD
Analyte				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
Toluene				0.100	0.1089		mg/L		109	70 - 130	8
Ethylbenzene				0.100	0.1205		mg/L		120	70 - 130	14
m-Xylene & p-Xylene				0.200	0.2577		mg/L		129	70 - 130	17
o-Xylene				0.100	0.1290		mg/L		129	70 - 130	17
				LCSD	LCSD						
Surrogate		%Recovery	Qualifier	Limits							
4-Bromofluorobenzene (Surr)		120		70 - 130							
1,4-Difluorobenzene (Surr)		110		70 - 130							

## QC Association Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

## GC VOA

## Prep Batch: 42094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-42094/5-A	Method Blank	Total/NA	Water	5035	

## Analysis Batch: 42128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3584-1	MW-1A	Total/NA	Water	8021B	
890-3584-2	MW-7A	Total/NA	Water	8021B	
890-3584-3	MW-8A	Total/NA	Water	8021B	
890-3584-4	MW-16	Total/NA	Water	8021B	
890-3584-5	MW-17	Total/NA	Water	8021B	
890-3584-6	MW-18	Total/NA	Water	8021B	
890-3584-7	MW-19	Total/NA	Water	8021B	
MB 880-42094/5-A	Method Blank	Total/NA	Water	8021B	42094
MB 880-42128/39	Method Blank	Total/NA	Water	8021B	
LCS 880-42128/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-42128/35	Lab Control Sample Dup	Total/NA	Water	8021B	

## Analysis Batch: 42301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3584-1	MW-1A	Total/NA	Water	Total BTEX	
890-3584-2	MW-7A	Total/NA	Water	Total BTEX	
890-3584-3	MW-8A	Total/NA	Water	Total BTEX	
890-3584-4	MW-16	Total/NA	Water	Total BTEX	
890-3584-5	MW-17	Total/NA	Water	Total BTEX	
890-3584-6	MW-18	Total/NA	Water	Total BTEX	
890-3584-7	MW-19	Total/NA	Water	Total BTEX	



## Lab Chronicle

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

Client Sample ID: MW-1A

Lab Sample ID: 890-3584-1

Date Collected: 12/06/22 11:59

Matrix: Water

Date Received: 12/06/22 15:27

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	42128	12/20/22 04:04	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42301	12/20/22 11:47	SM	EET MID

Client Sample ID: MW-7A

Lab Sample ID: 890-3584-2

Date Collected: 12/06/22 13:15

Matrix: Water

Date Received: 12/06/22 15:27

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	42128	12/20/22 04:24	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42301	12/20/22 11:47	SM	EET MID

Client Sample ID: MW-8A

Lab Sample ID: 890-3584-3

Date Collected: 12/06/22 13:55

Matrix: Water

Date Received: 12/06/22 15:27

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	42128	12/20/22 04:44	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42301	12/20/22 11:47	SM	EET MID

Client Sample ID: MW-16

Lab Sample ID: 890-3584-4

Date Collected: 12/06/22 12:08

Matrix: Water

Date Received: 12/06/22 15:27

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	42128	12/20/22 05:05	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42301	12/20/22 11:47	SM	EET MID

Client Sample ID: MW-17

Lab Sample ID: 890-3584-5

Date Collected: 12/06/22 11:04

Matrix: Water

Date Received: 12/06/22 15:27

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	42128	12/20/22 05:25	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42301	12/20/22 11:47	SM	EET MID

Client Sample ID: MW-18

Lab Sample ID: 890-3584-6

Date Collected: 12/06/22 11:30

Matrix: Water

Date Received: 12/06/22 15:27

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	42128	12/20/22 05:46	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42301	12/20/22 11:47	SM	EET MID

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Lab Chronicle

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

Client Sample ID: MW-19  
Date Collected: 12/06/22 13:22  
Date Received: 12/06/22 15:27

Lab Sample ID: 890-3584-7  
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	42128	12/20/22 06:06	SM	EET MID
Total/NA	Analysis	Total BTEX		1			42301	12/20/22 11:47	SM	EET MID

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

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

Accreditation/Certification Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

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

Method Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

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

**Protocol References:**

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

## Sample Summary

Client: Talon/LPE  
Project/Site: Kimbrough

Job ID: 890-3584-1  
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-3584-1	MW-1A	Water	12/06/22 11:59	12/06/22 15:27
890-3584-2	MW-7A	Water	12/06/22 13:15	12/06/22 15:27
890-3584-3	MW-8A	Water	12/06/22 13:55	12/06/22 15:27
890-3584-4	MW-16	Water	12/06/22 12:08	12/06/22 15:27
890-3584-5	MW-17	Water	12/06/22 11:04	12/06/22 15:27
890-3584-6	MW-18	Water	12/06/22 11:30	12/06/22 15:27
890-3584-7	MW-19	Water	12/06/22 13:22	12/06/22 15:27



# Environment Testing Xenco

## Chain of Custody

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

Work Order No: \_\_\_\_\_

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Project Manager:	David Adkins	Bill to: (if different)	Plains All American Pipeline
Company Name:	Talon LPE	Company Name:	Attn: Camille Bryant
Address:	408 Texas St.	Address:	
City, State ZIP:	Artesia, NM 88210	City, State ZIP:	SRS# 2000-10757
Phone:	575-441-4835	Email:	dadkins@talonlpe.com, mgomez@talonlpe.com

<b>Work Order Comments</b> Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: _____ Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	
--	--

Project Name:	Kimbrough	Turn Around	Pres Code	ANALYSIS REQUEST																Preservative Codes					
Project Number:		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush																		None: NO	DI Water: H <sub>2</sub> O				
Project Location:	Lea, County	Due Date:																		Cool: Cool	MeOH: Me				
Sampler's Name:		TAT starts the day received by the lab, if received by 4:30pm																		HCL: HC	HNO <sub>3</sub> : HN				
PO #:	SRS# 2000-10757	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na		
<b>SAMPLE RECEIPT</b>	Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	11111111																	H <sub>3</sub> PO <sub>4</sub> : HP				
	Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	1.000																	NaHSO <sub>4</sub> : NABIS				
	Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	16.0																	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>				
	Total Containers:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Corrected Temperature:	5.8																	Zn Acetate+NaOH: Zn				
								890-3584 Chain of Custody																NaOH+Ascorbic Acid: SACP	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BTEX 8021B																			Sample Comments	
MW-1A	GW	12-6-22	1159	N/A		3	X																			Email Analyticals to:	
MW-7A			1315			3	X																			CJBryant@paalp.com	
MW-8A			1385			3	X																			Maachoia@paalp.com	
MW-16			1208			3	X																				
MW-17			1104			3	X																				
MW-18			1130			3	X																				
MW-19			1322			3	X																				

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<sub>2</sub> Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$35.00 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



## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3584-1

SDG Number: Lea County

Login Number: 3584

List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

## Login Sample Receipt Checklist

Client: Talon/LPE

Job Number: 890-3584-1

SDG Number: Lea County

Login Number: 3584

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 12/08/22 11:47 AM

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

**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 202758

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID:
	34053
	Action Number: 202758
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2022 Annual Groundwater Monitoring Report for Kimbrough Sweet 8": Content Satisfactory 1. Continue PSH on a monthly basis by MDPE events. 2. Continue to conduct quarterly groundwater monitoring events. 3. Submit the 2023 Annual Groundwater Monitoring Report to NMOCD by or before April 1, 2024.	8/14/2023