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

Contractor recommendations approved by NMOCD and are as follows;

1. Complete monthly MDPE events

2. Perform quarterly groundwater monitoring events in accordance with NMOCD directives

3. Submit annual report to NMOCD no later than March 31,2023.



By Nelson Velez at 8:32 am, Jul 19, 2022

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# **2021 ANNUAL GROUNDWATER MONITORING REPORT**

REVIEWED

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

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

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

**FEBRUARY 21, 2022** 



# **2021 ANNUAL GROUNDWATER MONITORING REPORT**

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FEBRUARY 21, 2022



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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**

## 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. 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 were 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 south-western portion of the Southern High Plains as it grades into the Edwards Plateau to the south and southeast and the Chihuahuan Desert of the Trans-Pecos Region to the southwest.

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

The average elevation of the site area is approximately 3,720-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 Plaine.

#### **1.3** Previous Environmental Investigations

Currently, a total of 17 groundwater monitor wells are in use in the vicinity of the release (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, MW-11, and two (2) solar powered electric pumps in 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.

Twelve (12) MDPE events were conducted monthly, beginning January of 2021 and ending December of 2021.

Approximately 612.02 bbls of PSH consisting of 270.37 bbls of vapor phase and 341.65 bbls of liquid phase PSH have been recovered from the site to date.

#### **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							

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 2021. 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 chains of custody documentation are included in Appendix C.

# 2.0 SITE ACTIVITIES

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

## 2.1 Groundwater Monitoring Activities

A total of four (4) groundwater monitoring events were conducted by Talon during the year 2021 on March 22-26, June 15-18, September 16-17, and November 30-December 1. 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 2021 groundwater monitoring event all monitor wells were gauged. Twelve (12) monitor wells (MW-1A, MW-2A, MW-7A, MW-8A, and MW-12 through MW-19) were purged and sampled. Two (2) monitor wells (MW-6 and MW-11A) were not sampled due to the presence of PSH, one (1) monitor well (MW-3) did not have enough water to sample, and two (2) monitor wells (MW-5 and MW-9) were dry. Details of the gauging, purging, and sample collection activities are presented in Section 2.2 below.

During the June 2021 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, three (3) monitor wells (MW-3, MW-5, and MW-9) were dry, and one (1) monitor well (MW-13) was purged dry without recovery. Details of the gauging, purging, and sample collection activities are presented in Section 2.2 below.

During the September 2021 groundwater monitoring event all monitor wells were gauged. Eleven (11) monitor wells (MW-1A, MW-2A, MW-7A, MW-8A, MW-12, and MW-14 through MW-19) were purged and sampled. Two (2) monitor wells (MW-6 and MW-11A) were not sampled due to the presence of PSH, two (2) monitor wells 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 November/December 2021 groundwater monitoring event all monitor wells were gauged. Ten (10) monitor wells (MW-1A, MW-7A, MW-8A, MW-12, 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.

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

During each groundwater monitoring event, all monitor wells were measured with an oil/water interface probe to determine static water levels and to determine the thickness of PSH accumulations if present. The data collected from 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 – Summary of Historical Fluid Level Measurements.

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 at 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.

#### 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-11. 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-11 and two (2) 12V total fluids pumps in 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 and a 2,500-gallon, 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 recovery compound 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 monthly. 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 2021 the quarterly PSH and groundwater recovery totals are as follows:

- 1<sup>st</sup> Quarter 3.11 bbls PSH and 125.30 bbls of groundwater
- 2<sup>nd</sup> Quarter 4.29 bbls PSH and 152.64 bbls of groundwater
- 3<sup>rd</sup> Quarter 3.46 bbls PSH and 92.70 bbls of groundwater
- 4<sup>th</sup> Quarter 4.25 bbls PSH and 80.19 bbls groundwater

Twelve (12) MDPE events, in which liquid and vapor PSH were recovered, were conducted on site during 2021. The individual MDPE event recovery totals are as follows:

- January 19, 2021 0.73 bbls vapor, 0.48 bbls liquid
- February 2, 2021 0.77 bbls vapor, 0.19 bbls liquid
- March 24, 2021 0.65 bbls vapor, 0.29 bbls liquid
- April 20, 2021 0.43 bbls vapor, 0.38 bbls liquid
- May 18, 2021 1.46 bbls vapor, 0.38 bbls liquid
- June 16, 2021 1.35 bbls vapor, 0.29 bbls liquid
- July 20, 2021 1.30 bbls vapor, 0.19 bbls liquid
- August 8, 2021 0.67 bbls vapor, 0.29 bbls liquid
- September 2, 2021 0.46 bbls vapor, 0.55 bbls liquid
- October 6, 2021 0.32 bbls vapor, 0.19 bbls liquid
- November 22, 2021 2.59 bbls vapor, 0.29 bbls liquid
- December 2, 2021 0.48 bbls vapor, 0.38 bbls liquid

In 2021, an estimated total of 15.11 bbls of PSH were recovered during the MDPE events. Approximately 612.02 bbls of PSH consisting of 270.37 bbls of vapor phase and 341.65 bbls of liquid phase PSH have been recovered from the site to date.

# **3.0 GROUNDWATER ASSESSMENT AND MONITORING RESULTS**

The results of the laboratory analyses are summarized in Table 2 – Summary of Groundwater Analytical Data in Appendix B. Laboratory analytical data reports and 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, including the site, is referred to as the Ogallala Aquifer or High Plains Aquifer. The Southern portion of the Ogallala Aquifer underlies an area of about 29,000 square miles in western Texas and eastern New Mexico, encompassing all or part of 31 counties in Texas and six (6) counties in New Mexico.

The Ogallala Aquifer has experienced acute depletion from extensive irrigation and urban demand, which have exceeded the average annual recharge rate. Recharge of the Ogallala Aquifer on the Southern High Plains occurs predominately from rainfall runoff that accumulates in ephemeral streams and playa lakes as well as direct recharge in areas that contain permeable soils such as sand hills. Recharge rates vary depending on mechanism, but 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-HCO<sub>3</sub>, 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 2021. The results of the fluid level measurements are summarized in Table 1, Appendix B - Summary of Historical Fluid Level Measurements.

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

The potentiometric surface maps constructed for each of the four (4) groundwater monitoring events in 2021 indicate that the groundwater flow direction is to east northeast with average gradient of 0.0038 feet per foot or approximately 20.06 feet per mile. Groundwater levels at the subject site have exhibited a decrease of an average of 0.64 feet for the year 2021 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 2021.

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

- In March of 2021, PSH was observed in monitor wells MW-6 and MW-11A. PSH thickness ranged from 0.03 feet to 0.43 feet.
- In June of 2021, PSH was observed in monitor wells MW-2A, MW-6, and MW-11A. PSH thickness was 0.01 feet in each well
- In September 2021, PSH was observed in monitor wells MW-6 and MW-11A. PSH thickness ranged from 0.05 feet to 0.32 feet.
- In November/December of 2021, PSH was observed in monitor wells MW-2A, MW-6, and MW-11A. PSH thickness ranged from 0.02 feet to 0.14 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 584.99 bbls of PSH consisting of 270.36 bbls of vapor phase and 341.63 bbls of liquid phase PSH have been recovered from the site to date.

## 3.4 Groundwater Sampling Results

During the first quarter, March 2021, the following monitor wells were sampled: MW-1A, MW-2A, MW-7A, MW-8A, and MW-12 through MW-19. Laboratory analytical results of the groundwater samples exhibited the following findings:

- Benzene concentrations ranged from less than method detection limit (MDL) in MW-1A, MW-7A, MW-8A, and MW-13 through MW-19 to 0.291 mg/L in MW-2A. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in MW-2A.
- Toluene concentrations were less than the laboratory MDL in all monitor wells except

MW-2A, which had a concentration of 0.00449 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 the laboratory MDL in all monitor wells sampled except for MW-2A and MW-8A, which had concentrations of 0.0431 mg/L and 0.000829 mg/L, respectively. 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-2A and MW-8A, which had concentrations of 0.107 mg/L and 0.00132 mg/L, respectively. 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-2A. Trace levels of naphthalene were detected in MW-2A, however the concentration was not above the NMWQCC groundwater standard of 0.030 mg/L.

During the June 2021 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. 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 except MW-17, which had a concentration of 0.000404 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.075 mg/L in any monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the laboratory MDL in all wells except MW-8A, which had a concentration of 0.000987 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 except MW-8A, which had a concentration of 0.00315 mg/L. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.62 mg/L in any of the monitor wells sampled this quarter.

During the September 2021 sampling event, the following wells were sampled: MW-1A, MW-2A, 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-2A and MW-8A, which had concentrations of 0.344 mg/L and 0.000542 mg/L,

respectively. Benzene concentrations exceeded the NMWQCC groundwater standard of 0.010 mg/L in MW-2A.

- Toluene concentrations were less than the laboratory MDL in all wells sampled except MW-2A, with a concentration of 0.0122 mg/L. Toluene concentrations did not exceed the NMWQCC groundwater standard of 0.750 mg/L in in any of the monitor wells sampled this quarter.
- Ethylbenzene concentrations were below the laboratory MDL in all wells sampled except for MW-2A, MW-17, and MW-18, which had concentrations of 0.0824 mg/L, 0.000972 mg/L, and 0.00127 mg/L, respectively. 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-2A, MW-7A, and MW-8A, which had concentrations of 0.190 mg/L, 0.00112 mg/L, and 0.00472 mg/L, respectively. Xylene concentrations did not exceed the NMWQCC groundwater standard of 0.62 mg/L in in any of the monitor wells sampled this quarter.

During the November/December 2021 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 ranged from less than laboratory MDL all wells. Benzene concentrations did not exceed the NMWQCC groundwater standard of 0.0100 mg/L in any of the monitor wells samples this quarter.
- Toluene concentrations were less than laboratory MDL in all wells except for MW-7A, which had a concentration of 0.000477 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. 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. 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 – Summary of Historical Groundwater Analytical Results in Appendix B. The PAH laboratory analytical results are summarized in Table 3 – Summary of Historical Groundwater Analytical Results - PAH Supplement in Appendix B. Laboratory analytical data reports and chains of custody documentation are provided in Appendix C.

# 4.0 CONCLUSIONS AND RECOMMENDATIONS

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

#### 4.1 Summary of Findings

- The groundwater flow direction is to east northeast with an average gradient of 0.0038 ft/ft based on the water level measurement data collected in 2021.
- Groundwater levels at the subject site have decreased an average of 0.64 feet for the year 2021.
- PSH has impacted monitor wells MW-2A, MW-6, and MW-11A in 2021. PSH levels and extent have fluctuated in 2021 between 0.01' and 0.43'
- Approximately 15.11 bbls of PSH was recovered during the year 2021.
- Dissolved-phase concentrations were stable over the year 2021. The benzene concentration in MW-2A exceeded the NMWQCC groundwater standard of 0.010 mg/L during the 1<sup>st</sup> and 3<sup>rd</sup> quarter sampling events.
- PAH sampling was conducted on MW-2A during the 1<sup>st</sup> quarter sampling event. Trace levels of naphthalene were detected; however, it did not exceed the NMWQCC groundwater standard of 0.030 mg/L.
- NMOCD has approved reducing the sampling frequency from quarterly to a semiannual basis for MW-12, MW-13, MW-14 and MW-15.

#### 4.2 Recommendations

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

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

## **APPENDIX A**

## Figures

Figure 1 - Site Plan

Figure 2a - Groundwater Gradient Map - 03/22-23/2021

Figure 2b - Groundwater Gradient Map - 06/15/2021

Figure 2c - Groundwater Gradient Map - 09/16/2021

Figure 2d - Groundwater Gradient Map - 11/30-12/01/2021

Figure 3a - PSH Thickness & Groundwater Concentration Map - 03/22-24 & 26/2021

Figure 3b - PSH Thickness & Groundwater Concentration Map - 06/15 & 18/2021

Figure 3c - PSH Thickness & Groundwater Concentration Map - 09/16-17/2021

Figure 3d - PSH Thickness & Groundwater Concentration Map - 11/30-12/01/2021





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: 5/21/2021 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 (03/22-23/2021)





Drafted: 8/5/2021 1 in = 150 ft Drafted By: IJM 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 (06/15/2021)





Drafted: 11/3/2021 1 in = 150 ft Drafted By: IJM 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 (09/16/2021)





Drafted: 1/24/2022 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 2d - Groundwater Gradient Map (11/30-12/01/2021)



Released to Imaging: 8/2/2022 2.58.10 PM

Figure 3a - PSH Thickness and Groundwater Concentration Map (03/23-24 & 26/2021)



Figure 3b - PSH Thickness and Groundwater Concentration Map (06/15&18/2021)

Released to Imaging: 8/2/2022 2.58.10 PM

Drafted By: IJR



Released to Imaging: 8/2/2022 2.58.10 PM

Figure 3c - PSH Thickness and Groundwater Concentration Map (09/16-17/2021)



Released to Imaging: 8/2/2022 2.58.10 PM

Drafted By: IJR

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 (11/30-12/1/2021)

# **APPENDIX B**

# Tables

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

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-1A	3723.46	55.7	85.7	03/10/2016	60.52	-	-	3662.94
2"				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 06/11/2019	62.65 62.80	-	-	3660.81 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
MW-2	3723.32	23.32 41	61	03/10/2016	DR	-	-	-
4"				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	-	-	-
MW-2A	3722.25	60	80	09/12/2018	61.32	-	-	3660.93
4"				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	63.92	- 0.14	3658.47
MW-3	3721.52	43.4	63.4	03/10/2016	64.06 60.06			3658.31
2"	5121.52	40.4	03.4	03/10/2016	60.06	-	-	3661.46
2				09/09/2016	60.42	-	-	3661.31 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
			Ì	12/10/2018	61.96	-	-	3659.56
					62.15	-	-	3659.37
				03/14/2019				
				03/14/2019 06/11/2019	62.31	-	-	3659.21
							-	3659.21
				06/11/2019	62.31			
				06/11/2019 09/23/2019	62.31 62.47	-	-	3659.05
				06/11/2019 09/23/2019 12/09/2019	62.31 62.47 62.65	-	-	3659.05 3658.87
				06/11/2019 09/23/2019 12/09/2019 03/09/2020	62.31 62.47 62.65 62.84			3659.05 3658.87 3658.68
				06/11/2019 09/23/2019 12/09/2019 03/09/2020 06/12/2020	62.31 62.47 62.65 62.84 63.05	- - - -	- - - -	3659.05 3658.87 3658.68 3658.47
				06/11/2019 09/23/2019 12/09/2019 03/09/2020 06/12/2020 09/21/2020	62.31 62.47 62.65 62.84 63.05 63.27 DR	- - - -	- - - -	3659.05 3658.87 3658.68 3658.47
				06/11/2019 09/23/2019 12/09/2019 03/09/2020 06/12/2020 09/21/2020 11/30/2020	62.31 62.47 62.65 62.84 63.05 63.27	- - - - -	- - - - -	3659.05 3658.87 3658.68 3658.47 3658.25
				06/11/2019 09/23/2019 12/09/2019 03/09/2020 06/12/2020 09/21/2020 01/30/2020 03/22/2021	62.31 62.47 62.65 62.84 63.05 63.27 DR 63.11	- - - - - -	- - - - - - -	3659.05 3658.87 3658.68 3658.47 3658.25 - 3658.41

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwate Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-4	3721.94	39.7	59.7	03/10/2016	DR	-	-	-
2"				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 06/12/2018	DR DR	-	-	-
				08/29/2018	PA	-	-	-
MW-5	3724.08	45	65	03/10/2016	63.87	60.65	3.22	3662.90
4"	5724.00	40	00	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 DR	-	-	-
MW-6	3722.16	44	64	03/10/2016	63.65	- 58.85	4.80	3662.52
4"	5722.10	44	04	05/27/2016	61.43	59.53	1.90	3662.32
4				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
				12/1/2021	64.00	63.98	0.02	3658.18

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwate Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-7	3723.23	44	64	03/10/2016	61.50	60.53	0.97	3662.54
4"	5725.25	44	04	05/27/2016	60.93	60.83	0.37	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	-	-	-
MW-7A	3722.42	60	80	09/12/2018	61.56	-	-	3660.86
2"	0. 22. 12			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
				12/1/2021	64.16	-	-	3658.26
MW-8	3723.41	41	61	03/10/2016	63.20	60.11	3.09	3662.79
4"	5725.41			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	-	-	-
MW-8A	3723.41	60	80	09/12/2018	62.33	-	-	3661.08
2"				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
				12/1/2021	64.92	-	-	3658.49

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwate Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-9	3723.25	43	63	03/10/2016	61.95	60.16	1.79	3662.79
4"	5725.25	45	05	05/27/2016	61.35	60.42	0.93	3662.68
4				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
				12/1/2021	63.31	-	-	3659.94
MW-10	3724.14	40.1	60.1	03/10/2016	DR	-	-	-
2"				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-11	3722.55	40.7	60.7	03/10/2016	60.65	59.60	1.05	3662.78
2"				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	-	-	-

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-11A	3722.32	60	80	09/12/2018	61.71	-	-	3660.61
2"				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
100/ 10	0704.44	40	70	12/01/2021	65.39	65.37	0.02	3657.18
MW-12	3724.11	43	73	03/10/2016	63.08	-	-	3661.03
2"				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 09/12/2017	63.40 64.13	-	-	3660.71
				12/13/2017	64.31	-	-	3659.98 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
MW-13	3723.19	43	73	03/10/2016	61.96	-	-	3661.23
2"				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
				00/00/0040	63.36	-	-	3659.83
				03/22/2018				
				06/12/2018	63.60	-	-	3659.59
				06/12/2018 09/12/2018	63.60 65.60	-	-	3657.59
				06/12/2018 09/12/2018 12/10/2018	63.60 65.60 63.57			3657.59 3659.62
				06/12/2018 09/12/2018 12/10/2018 03/14/2019	63.60 65.60 63.57 64.04	-	-	3657.59 3659.62 3659.15
				06/12/2018 09/12/2018 12/10/2018 03/14/2019 06/11/2019	63.60 65.60 63.57 64.04 64.17	- - - -		3657.59 3659.62 3659.15 3659.02
				06/12/2018 09/12/2018 12/10/2018 03/14/2019 06/11/2019 09/23/2019	63.60 65.60 63.57 64.04 64.17 64.37	- - - -	- - - -	3657.59 3659.62 3659.15 3659.02 3658.82
				06/12/2018 09/12/2018 12/10/2018 03/14/2019 06/11/2019 09/23/2019 12/09/2019	63.60 65.60 63.57 64.04 64.17 64.37 64.54	- - - - - -	- - - - -	3657.59 3659.62 3659.15 3659.02 3658.82 3658.65
				06/12/2018 09/12/2018 12/10/2018 03/14/2019 06/11/2019 09/23/2019 12/09/2019 03/09/2020	63.60 65.60 63.57 64.04 64.17 64.37 64.54 64.74	- - - - - -	- - - - - -	3657.59 3659.62 3659.15 3659.02 3658.82 3658.65 3658.45
				06/12/2018 09/12/2018 12/10/2018 03/14/2019 06/11/2019 09/23/2019 12/09/2019 03/09/2020 06/12/2020	63.60 65.60 63.57 64.04 64.17 64.37 64.54 64.74 65.00	- - - - - - - - -	- - - - - - - - -	3657.59 3659.62 3659.15 3659.02 3658.82 3658.65 3658.45 3658.19
				06/12/2018 09/12/2018 12/10/2018 03/14/2019 06/11/2019 09/23/2019 12/09/2019 03/09/2020 06/12/2020 09/21/2020	63.60 65.60 63.57 64.04 64.17 64.37 64.54 64.74 65.00 65.16	- - - - - - - -	- - - - - - - -	3657.59 3659.62 3659.15 3659.02 3658.82 3658.65 3658.45 3658.19 3658.03
				06/12/2018 09/12/2018 12/10/2018 03/14/2019 06/11/2019 09/23/2019 12/09/2019 03/09/2020 06/12/2020 09/21/2020 11/30/2020	63.60 65.60 63.57 64.04 64.17 64.37 64.54 64.74 64.74 65.00 65.16 65.35	- - - - - - - - -	- - - - - - - - -	3657.59 3659.62 3659.02 3658.02 3658.82 3658.65 3658.45 3658.19 3658.03 3657.84
				06/12/2018 09/12/2018 12/10/2018 03/14/2019 06/11/2019 09/23/2019 12/09/2019 03/09/2020 06/12/2020 11/30/2020 03/22/2021	63.60 65.60 63.57 64.04 64.17 64.37 64.54 64.54 64.54 65.00 65.16 65.35 65.59	- - - - - - - - - - - - -	- - - - - - - - - - - - - -	3657.59 3659.62 3659.15 3659.02 3658.82 3658.82 3658.45 3658.45 3658.19 3658.03 3657.84 3657.60
				06/12/2018 09/12/2018 12/10/2018 03/14/2019 06/11/2019 09/23/2019 12/09/2019 03/09/2020 06/12/2020 09/21/2020 11/30/2020	63.60 65.60 63.57 64.04 64.17 64.37 64.54 64.74 64.74 65.00 65.16 65.35	- - - - - - - -	- - - - - - - -	3657.59 3659.62 3659.02 3658.02 3658.82 3658.65 3658.45 3658.19 3658.03 3657.84

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-14	3725.1	62.3	82.3	03/10/2016	64.64	-	-	3660.46
4"				05/27/2016	64.78	-	-	3660.32
				09/09/2016	65.00	-	-	3660.10
				12/06/2016 03/06/2017	65.15 66.24	-	-	3659.95 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 03/14/2019	66.46 66.72	-	-	3658.64 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 3656.55
				06/15/2021 09/16/2021	68.55 68.84	-	-	3656.26
				11/30/2021	68.95	-	-	3656.15
MW-15	3726.06	59.2	79.2	03/10/2016	65.40	-	-	3660.66
4"			-	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 12/13/2017	66.45 66.63	-	-	3659.61 3659.43
				03/22/2018	66.82	-	-	3659.43
				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 06/12/2020	68.19 68.40	-	-	3657.87 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
MW-16	3722.32	52.7	82.7	03/10/2016	61.23	-	-	3661.09
2"				05/27/2016 09/09/2016	61.39 61.60	-	-	3660.93
				12/06/2016	61.74	-	-	3660.72 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 03/14/2019	63.07 63.32	-	-	3659.25 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
			1	11/30/2021	65.55	-	-	3656.77

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

Sample ID	Casing Elevation	Top of Screen	Bottom of Screen	Sample Date	Depth to Water	Depth to Product	Product Thickness	Groundwater Elevation
	(fmsl)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(fmsl)
MW-17	3725.28	56.6	86.6	03/10/2016	65.55	-	-	3659.73
2"				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 06/12/2018	66.95 67.11	-	-	3658.33 3658.17
				09/12/2018	67.16	-	-	3658.17
				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
MW-18	3724.75	55.8	85.8	03/10/2016	64.80	-	-	3659.95
2"				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 06/15/2021	68.46 68.71	-	-	3656.29
				06/15/2021	68.96	-	-	3656.04 3655.79
				11/30/2021	69.15	-	-	3655.60
MW-19	3722.8	60	80	09/12/2018	61.58	-	-	3661.22
2"	0122.0	00		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
			1	12/1/2021	64.19	-	-	3658.61

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 Hobbs, NM SRS#: 2000-10757

		Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
Sample ID	Date Sampled				-	
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
	Groundwater	0.01	0.75	0.75	0.62	-
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
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

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

Sample ID	Data Samplad	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
Sample ID	Date Sampled	(m m/l )	(ma/l)	(ma/l)	(m m/l )	(ma/l)
MW-8A	09/13/2018	(mg/L) <0.000408	(mg/L) <0.000367	(mg/L) <0.000657	(mg/L) <0.000630	(mg/L) <0.000367
IVIV-0A	12/11/2018	<0.000400	<0.000512	<0.000616	<0.000030	<0.000307
	03/15/2019	0.00752	0.0129	0.00952	0.0234	0.0533
	06/11/2019	0.00102	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
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 <0.00400
	09/17/2021 12/01/2021	<0.00200	<0.00200 <0.0200	<0.00200 <0.0200	<0.00400	<0.00400
MW-13	03/10/2016	<0.0200 <0.000223	<0.0200	<0.0200	<0.0400 <0.000243	<0.0400
10100-13	05/27/2016	0.000223	<0.000238	<0.000238 0.000400 J	<0.000243 0.000300 J	-
	09/09/2016	<0.000504	<0.000230	< 0.000763	<0.000256	-
	12/06/2016	<0.000408	<0.000021	<0.000657	<0.000230	
	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

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

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
MW-14	03/10/2016	<0.000223	<0.000238	<0.000238 <0.000238	<0.000243	-
	05/27/2016 09/09/2016	0.000800 J <0.000504	<0.000238 <0.000621	<0.000238	<0.000243 <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 12/19/2017	<0.000408 <0.000408	<0.000367 <0.000367	<0.000657 <0.000657	<0.000630 <0.000630	<0.000367 <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 06/11/2019	0.000570	<0.0005 <0.000367	<0.0005 <0.000657	<0.0005 <0.00063	0.000570
	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 03/23/2021	<0.002000 <0.00200	<0.002000 <0.00200	<0.002000 <0.00200	<0.002000 <0.00400	<0.002000 <0.00200
	06/18/2021	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200
	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
MW-15	03/10/2016	<0.000223	<0.000238	< 0.000238	< 0.000243	-
	05/27/2016 09/09/2016	0.0014	<0.000238 <0.000621	<0.000238 <0.000763	<0.000243 <0.000256	-
	12/06/2016	<0.000504	<0.000621	<0.000763	<0.000256	-
	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 06/12/2018	<0.000408 <0.000480	<0.000367 <0.000512	<0.000657 <0.000616	<0.000630 <0.000270	<0.000367 <0.000270
	09/13/2018	<0.000408	<0.000367	<0.000657	<0.000270	<0.000270
	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 12/10/2019	<0.000408 <0.000408	<0.000367 <0.000367	<0.000657 <0.000657	<0.00063 <0.000630	<0.000367 <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 <0.00200	< 0.00400	< 0.00200
	06/18/2021 09/16/2021	<0.00200	<0.00200 <0.00200	<0.00200	<0.00400 <0.00400	<0.00400 <0.00400
	12/01/2021	<0.00200	<0.00200	<0.00200	< 0.00400	< 0.00400
/W-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 03/07/2017	0.00268	<0.00100 <0.000367	<0.000657 <0.000657	<0.000642 <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 09/13/2018	<0.000480 <0.000408	<0.000512 <0.000367	<0.000616 <0.000657	<0.000270 <0.000630	<0.000270 <0.000367
	12/11/2018	<0.000408	<0.000512	<0.000616	<0.000030	<0.000307
	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 06/15/2020	0.000490 J <0.000408	<0.000367 0.000600 J	<0.000657 <0.000657	<0.000630 <0.000630	0.000490 J 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 <0.00200	<0.00400	<0.00400 <0.00400

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

Sample ID	Date Sampled	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
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 12/06/2016	<0.000504 <0.000408	<0.000621 <0.00100	<0.000763 <0.000657	<0.000256 <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 06/12/2018	<0.000408 <0.000480	<0.000367 <0.000512	<0.000657 <0.000616	<0.000630 <0.000270	<0.000367 <0.000270
	09/13/2018	<0.000480	<0.000312	<0.000657	<0.000270	<0.000270
	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 03/10/2020	<0.000408 <0.000408	0.000470	<0.000657 <0.000657	<0.000630 <0.000630	0.00047
	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
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 06/08/2017	<0.000408 <0.000408	<0.000367 <0.00100	<0.000657 <0.000657	<0.000630 <0.000642	<0.000367 <0.000408
	09/14/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000408
	12/19/2017	<0.000408	<0.000367	<0.000657	<0.000630	<0.000367
	03/22/2018	<0.000408	<0.000307 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
MW-19	09/13/2018 03/15/2019	<0.000408 0.00123	<0.000367 0.00490	<0.000657 0.00227	<0.000630 0.00763	<0.000367 0.0160
	06/11/2019	0.000123	< 0.00490	<0.00227	<0.00763	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

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

Analyte concentration exceeds the standard for:

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## Table 3 - Groundwater Analytical Data - Historical - PAH Supplement Kimbrough Sweet 8 inch Hobbs, NM

Sample ID	Date Sampled	Acenaphthene (mg/l)	Acenaphthylene (g	Anthracene (mg/l)	Benzo(a)anthracene gg	Benzo(a)pyrene (€)	Benzo(b)fluoranthene (g	Benzo(g,h,i)perylene (€)	Benzo(k)fluoranthene (g	Chrysene (mg/l)	Dibenz(a,h)anthracene (g	Dibenzofuran (mg/l)	Fluoranthene (mg/l)	Fluorene (mg/l)	Indeno (1,2,3-c,d) pyrene	Naphthalene (mg/l)	Phenanthrene (mg/l)	Pyrene (mg/l)
	Froundwater	-	-	-	-	0.0007	-	-	-	-	-	-	-	-	-	0.03	-	-
MW-1A	03/10/2016	< 0.0000365	< 0.0000638	< 0.0000353	< 0.0000792	< 0.0000459	<0.0000780	<0.0000570	< 0.0000616	<0.000891	<0.0000618	< 0.0000667	< 0.0000701	<0.000866	< 0.0000590	<0.0000721	< 0.0000567	< 0.0000456
MW-2A	03/18/2019 03/24/2021	<0.0000041 <0.000194	<0.000073 <0.000194 *	<0.0000076 <0.000194 *	<0.000063 <0.000194	<0.000095 <0.000194 *	<0.000091 <0.000194 *	<0.000080	<0.000078 <0.000194 *	<0.000088	<0.0000049 <0.000194 *	0.000458	<0.000090 <0.000194	0.000246	<0.000049 <0.000194 *	0.00493	0.000101 0.000206	<0.000092 <0.000194 *
MW-7A	03/15/2019	<0.0000041	< 0.000074	< 0.0000077	< 0.0000064	<0.0000096	< 0.0000092	<0.0000080	<0.000079	<0.0000089	< 0.000005	< 0.0000054	<0.0000090	<0.000200	< 0.000005	0.000404	< 0.00000056	
	03/10/2020		< 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		<0.0000990	
MW-8A	03/15/2019		< 0.0000073		< 0.0000063			<0.0000080	<0.0000078		< 0.0000049	< 0.0000053	<0.0000090	< 0.0000055	< 0.0000049		< 0.0000055	
-	03/09/2020	< 0.000107	< 0.0000903	< 0.000930	< 0.000144	< 0.0000612	< 0.0000763	<0.000122 L	< 0.000125		< 0.0000816	-	< 0.000169	< 0.000108	< 0.0000980	< 0.000104	< 0.0000913	
MW-11A	03/18/2019	0.000112	< 0.000073	< 0.0000076	< 0.000063	< 0.000095	< 0.0000091	< 0.0000080	< 0.000078	< 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	< 0.000073	< 0.000076	< 0.000063	< 0.000095	< 0.000091	< 0.0000080	< 0.000078	<0.000088	< 0.0000049	< 0.000053	< 0.000090	< 0.0000055	< 0.0000049	0.0000651	< 0.0000055	< 0.000092
	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		< 0.0000691	< 0.0000543	
	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	<0.000041	< 0.000073	< 0.000076	< 0.000063	< 0.000095	<0.000091	<0.000080	<0.000078	<0.000088	<0.000049	< 0.000053	< 0.000090	< 0.000055	<0.000049	0.0000557	< 0.000055	<0.000092
	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		< 0.0000705	< 0.0000555	
	03/22/2018 03/18/2019	< 0.000109	<0.000109 <0.000075	< 0.000109	< 0.000109	< 0.000109	<0.000109	<0.000109 <0.000081	<0.000109 <0.0000079	<0.000109 <0.0000090	< 0.000109	<0.000109 <0.000054	<0.000109 <0.000091	<0.000109 <0.0000056	<0.000109 <0.000050	<0.000109 0.0000363	< 0.000109	< 0.000109
	03/18/2019		<0.000075	<0.0000077	<0.000065	<0.000097 <0.0000600			<0.0000122	<0.0000090	<0.0000050 <0.0000800	- <0.000054	<0.0000091	< 0.0000056	<0.0000050	<0.000102	<0.0000056 <0.0000895	<0.000094 <0.000137
MW-18	03/10/2020		< 0.0000653	< 0.0000361	<0.000141		<0.0000748	<0.0000583	<0.000122	<0.000104	<0.0000632	< 0.0000682	< 0.000105	<0.000100		<0.0000737	<0.0000580	< 0.0000466
10100-10	03/22/2018	<0.000111	<0.000111	< 0.0000111	< 0.0000111	< 0.0000470	< 0.000111	<0.0000303	< 0.0000030	< 0.0000312	< 0.0000032	<0.0000002	< 0.000111	< 0.00000000	< 0.0000004	<0.0000737	<0.0000300	<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		<0.0000045	< 0.0000055	<0.0000092
MW-19		< 0.00000410		< 0.00000740			<0.00000920		<0.00000790		<0.00000500	0.000146	< 0.00000910		< 0.00000500	0.000585	0.000323	< 0.00000930
-	03/09/2020			< 0.0000950	< 0.000148		<0.0000780		< 0.000127	< 0.000171	< 0.0000834	-	< 0.000172	< 0.000111	< 0.000100	< 0.000107	< 0.0000933	< 0.000143
Notes:			•		•		•											

Notes:

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

# Analyte concentration exceeds the standard for: NMOCD - Groundwater

# **APPENDIX C**

# Laboratory Analytical Data Reports and Chain of Custody Documentation

Received by OCD: 3/22/2022 12:39:08 PM

# difference en la construction de la construction de

# Environment Testing America

# ANALYTICAL REPORT

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

# Laboratory Job ID: 890-433-1

Laboratory Sample Delivery Group: Hobbs NM Client Project/Site: Kimbrough Sweet

# For:

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

Attn: David Adkins

VRAMER

Authorized for release by: 4/7/2021 2:26:32 PM

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

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

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

Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

**Total** Access

**Have a Question?** 

Ask-

The

Expert

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Sample Summary	20
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Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number Method Quantitation Limit

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

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

Minimum Detectable Activity (Radiochemistry)

LOD

LOQ

MCL MDA

MDC

MDL

ML

MPN

MQL NC

ND

NEG

POS

PQL PRES

QC

RL RPD

TEF TEQ

TNTC

RER

# **Definitions/Glossary**

Definitions/Glossary	
imbrough Sweet SDG: Hobbs N	M Z
	_ 3
VOA	
Qualifier Description	
LCS or LCSD is outside acceptance limits.	_
Analyte was not detected at or above the SDL.	5
Qualifier Description	
Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.	_
Analyte was not detected at or above the SDL.	
Surrogate recovery exceeds control limits	
	8
These commonly used abbreviations may or may not be present in this report.	Q
Listed under the "D" column to designate that the result is reported on a dry weight basis	
Percent Recovery	
Contains Free Liquid	
Colony Forming Unit	
Contains No Free Liquid	
Duplicate Error Ratio (normalized absolute difference)	
Dilution Factor	
Detection Limit (DoD/DOE)	
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
Decision Level Concentration (Radiochemistry)	
Estimated Detection Limit (Dioxin)	
1	PE Job ID: 890-433 SDG: Hobbs N COA Cualifier Description LCS or LCSD is outside acceptance limits. Analyte was not detected at or above the SDL. Cualifier Description Result is less than the MOL but greater than or equal to the SDL and the concentration is an estimated value. Analyte was not detected at or above the SDL. Surrogate recovery exceeds control limits 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 Percent Recovery Contains Free Liquid Colory Forming Unit Contains No Free Liquid Duplicate Error Ratio (normalized absolute difference) Dilution Factor Detection Limit (DoD/DOE) Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample Decision Level Concentration (Radiochemistry)

# **Case Narrative**

Client: Talon/LPE Project/Site: Kimbrough Sweet

# Job ID: 890-433-1

#### Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-433-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/25/2021 1:32 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

#### GC/MS Semi VOA

Method 8270D SIM: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-1755 and 860-1755 and analytical batch 860-1692 recovered outside control limits for multiple analytes. The associated sample(s) was re-prepared and/or re-analyzed outside holding time with concurring LCSD/LCSD failures. Both sets of data have been reported.

Method 8270D SIM: The laboratory control sample and the laboratory control sample duplicate (LCS/LCSD) for preparation batch 860-1997 and 860-1997 and analytical batch 860-2072 recovered outside control limits for multiple analytes. The associated sample(s) was re-prepared and/or re-analyzed outside holding time with concurring LCSD/LCSD failures. Both sets of data have been reported.

#### GC VOA

Method 8021B: The surrogate recovery for the blank associated with analytical batch 880-1096 was outside the upper control limits.

## Job ID: 890-433-1 SDG: Hobbs NM

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

<0.00200 U

%Recovery Qualifier

108

89

Client: Talon/LPE

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

Project/Site: Kimbrough Sweet

**Client Sample ID: MW-17** 

Date Collected: 03/23/21 08:30

Date Received: 03/25/21 13:32

RL

0.00200

0.00200

0.00200

0.00400

0.00200

0.00400

0.00200

Limits

70 - 130

70 - 130

MDL Unit

0.000408 mg/L

0.000367 mg/L

0.000657 mg/L

0.000629 mg/L

0.000642 mg/L

0.00100 mg/L

0.00100 mg/L

D

Prepared

Prepared

Job ID: 890-433-1 SDG: Hobbs NM

# Lab Sample ID: 890-433-1

03/31/21 18:53

03/31/21 18:53

03/31/21 18:53

Analyzed

03/31/21 18:53

03/31/21 18:53

Lab Sample ID: 890-433-2

Lab Sample ID: 890-433-3

Matrix: Water

Matrix: Water

1

1

1

1

Dil Fac

Matrix: Water

# **Client Sample ID: MW-18**

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Date Collected: 03/23/21 09:00

## Date Received: 03/25/21 13:32

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/31/21 19:18	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/31/21 19:18	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/31/21 19:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/31/21 19:18	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/31/21 19:18	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/31/21 19:18	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/31/21 19:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			-		03/31/21 19:18	1
1.4-Difluorobenzene (Surr)	101		70 - 130					03/31/21 19:18	1

#### **Client Sample ID: MW-15**

Date Collected: 03/23/21 10:30

Date Received: 03/25/21 13:32

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/31/21 19:44	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/31/21 19:44	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/31/21 19:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/31/21 19:44	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/31/21 19:44	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/31/21 19:44	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/31/21 19:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			-		03/31/21 19:44	1
1,4-Difluorobenzene (Surr)	103		70 - 130					03/31/21 19:44	1

Analyzed Dil Fac 03/31/21 18:53 1 03/31/21 18:53 1 03/31/21 18:53 1 03/31/21 18:53 1

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Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

<0.00200 U

%Recovery Qualifier

104

104

Client: Talon/LPE

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

Project/Site: Kimbrough Sweet

**Client Sample ID: MW-14** 

Date Collected: 03/23/21 12:00

Date Received: 03/25/21 13:32

RL

0.00200

0.00200

0.00200

0.00400

0.00200

0.00400

0.00200

Limits

70 - 130

70 - 130

MDL Unit

0.000367 mg/L

0.000657 mg/L

0.000629 mg/L

0.000642 mg/L

0.00100 mg/L

0.00100 mg/L

mg/L

0.000408

D

Prepared

Prepared

Job ID: 890-433-1 SDG: Hobbs NM

# Lab Sample ID: 890-433-4

Analyzed

03/31/21 20:09

03/31/21 20:09

03/31/21 20:09

03/31/21 20:09

03/31/21 20:09

03/31/21 20:09

03/31/21 20:09

Analyzed

03/31/21 20:09

03/31/21 20:09

Lab Sample ID: 890-433-5

Matrix: Water

Dil Fac

1

1

1

1

1

1

1

1

Dil Fac

Matrix: Water

# 4 5 7 8 9 10

Client Sample ID: MW-16

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

# Date Collected: 03/23/21 12:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/31/21 20:35	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/31/21 20:35	
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/31/21 20:35	
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/31/21 20:35	
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/31/21 20:35	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/31/21 20:35	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/31/21 20:35	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			-		03/31/21 20:35	
1,4-Difluorobenzene (Surr)	103		70 - 130					03/31/21 20:35	1
Client Sample ID: MW-1A							Lab S	ample ID: 890	-433-6
ate Collected: 03/23/21 13:00								Matrix	c: Water
ate Received: 03/25/21 13:32									

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/31/21 21:00	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/31/21 21:00	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/31/21 21:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/31/21 21:00	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/31/21 21:00	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/31/21 21:00	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/31/21 21:00	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			_		03/31/21 21:00	1
1,4-Difluorobenzene (Surr)	105		70 - 130					03/31/21 21:00	1

Job ID: 890-433-1 SDG: Hobbs NM

# Lab Sample ID: 890-433-7

Lab Sample ID: 890-433-8

Matrix: Water

Matrix: Water

Matrix: Water

#### **Client Sample ID: MW-19** Date Collected: 03/24/21 09:30 Date Received: 03/25/21 13:32

Project/Site: Kimbrough Sweet

Client: Talon/LPE

Method: 8021B - Volatile Orga	nic Compounds (	GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			04/01/21 00:23	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			04/01/21 00:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			04/01/21 00:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			04/01/21 00:23	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			04/01/21 00:23	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			04/01/21 00:23	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			04/01/21 00:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 _ 130			-		04/01/21 00:23	1
1,4-Difluorobenzene (Surr)	92		70 - 130					04/01/21 00:23	1

#### **Client Sample ID: MW-8A**

Date Collected: 03/24/21 10:30

Date Received: 03/25/21 13:32

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	0.000408	mg/L			04/01/21 00:48	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			04/01/21 00:48	1
Ethylbenzene	0.000829	J	0.00200	0.000657	mg/L			04/01/21 00:48	1
m-Xylene & p-Xylene	0.00132	J	0.00400	0.000629	mg/L			04/01/21 00:48	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			04/01/21 00:48	1
Xylenes, Total	0.00132	J	0.00400	0.00100	mg/L			04/01/21 00:48	1
Total BTEX	0.00215		0.00200	0.00100	mg/L			04/01/21 00:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130			-		04/01/21 00:48	1
1,4-Difluorobenzene (Surr)	97		70 - 130					04/01/21 00:48	1

## **Client Sample ID: MW-7A**

Date Collected: 03/24/21 12:00

Date Received: 03/25/21 13:32

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			04/01/21 01:13	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			04/01/21 01:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			04/01/21 01:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			04/01/21 01:13	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			04/01/21 01:13	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			04/01/21 01:13	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			04/01/21 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 _ 130			-		04/01/21 01:13	1
1,4-Difluorobenzene (Surr)	99		70 - 130					04/01/21 01:13	1

# **Client Sample Results**

Client: Talon/LPE Project/Site: Kimbrough Sweet

#### **Client Sample ID: MW-2A** Date Collected: 03/24/21 14:00

Date Received: 03/25/21 13:32

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Acenaphthene	<0.000194	U	0.000194	0.000106	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Acenaphthylene	<0.000194	U *	0.000194	0.0000896	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Anthracene	<0.000194	U *	0.000194	0.0000957	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Benzo[a]anthracene	<0.000194	U	0.000194	0.000143	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Benzo[a]pyrene	<0.000194	U *	0.000194	0.0000607	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Benzo[b]fluoranthene	<0.000194	U *	0.000194	0.0000745	mg/L		03/31/21 15:13	04/01/21 12:52	1	8
Benzo[g,h,i]perylene	<0.000194	U *	0.000194	0.000120	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Benzo[k]fluoranthene	<0.000194	U *	0.000194	0.000123	mg/L		03/31/21 15:13	04/01/21 12:52	1	6
Chrysene	<0.000194	U	0.000194	0.000166	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Dibenz(a,h)anthracene	<0.000194	U *	0.000194	0.0000809	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Dibenzofuran	0.000363	*	0.000194	0.000106	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Fluoranthene	<0.000194	U	0.000194	0.000167	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Fluorene	0.000206		0.000194	0.000107	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Indeno[1,2,3-cd]pyrene	<0.000194	U *	0.000194	0.0000971	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Naphthalene	0.00464	*	0.00387	0.000103	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Phenanthrene	0.000206		0.000194	0.0000904	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Pyrene	<0.000194	U *	0.000194	0.000138	mg/L		03/31/21 15:13	04/01/21 12:52	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
2-Fluorobiphenyl	124		54 - 146				03/31/21 15:13	04/01/21 12:52	1	
2-Fluorobiphenyl	131		54 - 146				03/31/21 15:49	04/02/21 12:32	1	
Nitrobenzene-d5	128		46 - 151				03/31/21 15:13	04/01/21 12:52	1	
Nitrobenzene-d5	130		46 - 151				03/31/21 15:49	04/02/21 12:32	1	
p-Terphenyl-d14	123		51 _ 139				03/31/21 15:13	04/01/21 12:52	1	
p-Terphenyl-d14	119		51 - 139				03/31/21 15:49	04/02/21 12:32	1	

#### RL Analyte Result Qualifier MDL Unit D Prepared Analyzed Dil Fac Benzene 0.291 0.00200 0.000408 mg/L 04/01/21 01:38 1 0.00200 0.000367 mg/L 04/01/21 01:38 Toluene 0.00449 1 Ethylbenzene 0.0431 0.00200 0.000657 mg/L 04/01/21 01:38 1 0.000629 mg/L 0.00400 04/01/21 01:38 0.0711 m-Xylene & p-Xylene 1 0.000642 mg/L 04/01/21 01:38 o-Xylene 0.0363 0.00200 1 0.00400 0.00100 mg/L 04/01/21 01:38 **Xylenes**, Total 0.107 1 0.00200 **Total BTEX** 0.446 0.00100 mg/L 04/01/21 01:38 1 Dil Fac %Recovery Qualifier Surrogate Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 103 70 - 130 04/01/21 01:38 1 70 - 130 1,4-Difluorobenzene (Surr) 112 04/01/21 01:38 1

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Job ID: 890-433-1 SDG: Hobbs NM

# Lab Sample ID: 890-433-10

Matrix: Water

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

Project/Site: Kimbrough Sweet

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

Matrix: Water

-	
90-433-1	
50- <del>4</del> 55-1	

Prep Type: Total/NA

13

Prep Type: Total/NA	
atance Limite)	

				Percent Sur
		FBP	NBZ	TPHd14
Lab Sample ID	Client Sample ID	(54-146)	(46-151)	(51-139)
890-433-10	MW-2A	124	128	123
890-433-10	MW-2A	131	130	119
LCS 860-1755/2-A	Lab Control Sample	129	134	65
LCS 860-1997/2-A	Lab Control Sample	123	125	57
LCSD 860-1755/3-A	Lab Control Sample Dup	123	130	61
LCSD 860-1997/3-A	Lab Control Sample Dup	127	129	66
MB 860-1755/1-A	Method Blank	133	134	91
MB 860-1997/1-A	Method Blank	128	120	69
Ourse sector is a second				
Surrogate Legend				

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHd14 = p-Terphenyl-d14

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

Matrix: Water

		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-433-1	MW-17	108	89
890-433-1 MS	MW-17	98	115
890-433-1 MSD	MW-17	94	103
890-433-2	MW-18	100	101
890-433-3	MW-15	107	103
890-433-4	MW-14	104	104
890-433-5	MW-16	105	103
890-433-6	MW-1A	107	105
890-433-7	MW-19	102	92
890-433-8	MW-8A	93	97
890-433-9	MW-7A	99	99
890-433-10	MW-2A	103	112
LCS 880-1096/3	Lab Control Sample	95	108
LCSD 880-1096/4	Lab Control Sample Dup	94	105
MB 880-1096/8	Method Blank	68 X	84
Currente Lenend			

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Client: Talon/LPE Project/Site: Kimbrough Sweet

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

# Lab Sample ID: MB 860-1755/1-A

Matrix: Water Analysis Batch: 1692

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000182	U	0.000182	0.000100	mg/L		03/31/21 14:10	03/31/21 17:34	1
Acenaphthylene	<0.000182	U	0.000182	0.0000842	mg/L		03/31/21 14:10	03/31/21 17:34	1
Anthracene	<0.000182	U	0.000182	0.0000900	mg/L		03/31/21 14:10	03/31/21 17:34	1
Benzo[a]anthracene	<0.000182	U	0.000182	0.000134	mg/L		03/31/21 14:10	03/31/21 17:34	1
Benzo[a]pyrene	<0.000182	U	0.000182	0.0000571	mg/L		03/31/21 14:10	03/31/21 17:34	1
Benzo[b]fluoranthene	<0.000182	U	0.000182	0.0000700	mg/L		03/31/21 14:10	03/31/21 17:34	1
Benzo[g,h,i]perylene	<0.000182	U	0.000182	0.000113	mg/L		03/31/21 14:10	03/31/21 17:34	1
Benzo[k]fluoranthene	<0.000182	U	0.000182	0.000116	mg/L		03/31/21 14:10	03/31/21 17:34	1
Chrysene	<0.000182	U	0.000182	0.000156	mg/L		03/31/21 14:10	03/31/21 17:34	1
Dibenz(a,h)anthracene	<0.000182	U	0.000182	0.0000760	mg/L		03/31/21 14:10	03/31/21 17:34	1
Dibenzofuran	<0.000182	U	0.000182	0.000100	mg/L		03/31/21 14:10	03/31/21 17:34	1
Fluoranthene	<0.000182	U	0.000182	0.000157	mg/L		03/31/21 14:10	03/31/21 17:34	1
Fluorene	<0.000182	U	0.000182	0.000101	mg/L		03/31/21 14:10	03/31/21 17:34	1
Indeno[1,2,3-cd]pyrene	<0.000182	U	0.000182	0.0000913	mg/L		03/31/21 14:10	03/31/21 17:34	1
Naphthalene	<0.00364	U	0.00364	0.0000972	mg/L		03/31/21 14:10	03/31/21 17:34	1
Phenanthrene	<0.000182	U	0.000182	0.0000850	mg/L		03/31/21 14:10	03/31/21 17:34	1
Pyrene	<0.000182	U	0.000182	0.000130	mg/L		03/31/21 14:10	03/31/21 17:34	1
	МВ	МВ							
• •	<b>2</b> / <b>5</b>	o					- <i>'</i>		<b>B</b> '' <b>F</b>

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	133		54 _ 146	03/31/21 14:10	03/31/21 17:34	1
Nitrobenzene-d5	134		46 _ 151	03/31/21 14:10	03/31/21 17:34	1
p-Terphenyl-d14	91		51 - 139	03/31/21 14:10	03/31/21 17:34	1

#### Lab Sample ID: LCS 860-1755/2-A Matrix: Water Analysis Batch: 1692

#### **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 1755

Analysis Batom. 1002								1100 81	
		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acenaphthene		0.0182	0.02419		mg/L		133	73 - 145	
Acenaphthylene		0.0182	0.02458	*	mg/L		135	78 - 133	
Anthracene		0.0182	0.02594	*	mg/L		143	77 _ 127	
Benzo[a]anthracene		0.0182	0.01578		mg/L		87	71 _ 142	
Benzo[a]pyrene		0.0182	0.01145	*	mg/L		63	76 <sub>-</sub> 140	
Benzo[b]fluoranthene		0.0182	0.01337	*	mg/L		74	78 - 138	
Benzo[g,h,i]perylene		0.0182	0.007195	*	mg/L		40	74 - 138	
Benzo[k]fluoranthene		0.0182	0.009874	*	mg/L		54	79 <sub>-</sub> 128	
Chrysene		0.0182	0.01433		mg/L		79	70 - 160	
Dibenz(a,h)anthracene		0.0182	0.006470	*	mg/L		36	76 - 129	
Dibenzofuran		0.0182	0.02488	*	mg/L		137	77 _ 131	
Fluoranthene		0.0182	0.02556		mg/L		141	67 - 142	
Fluorene		0.0182	0.02473		mg/L		136	56 _ 163	
Indeno[1,2,3-cd]pyrene		0.0182	0.006778	*	mg/L		37	72 <sub>-</sub> 122	
Naphthalene		0.0182	0.02366	*	mg/L		130	70 _ 126	
Phenanthrene		0.0182	0.02476		mg/L		136	74 <sub>-</sub> 138	
Pyrene		0.0182	0.02529	*	mg/L		139	66 - 126	
	LCS LCS								
Surrogato	% Pacavary Qualifiar	Limite							

Surrogate	%Recovery Qualifier	Limits
2-Fluorobiphenyl	129	54 - 146

Job ID: 890-433-1 SDG: Hobbs NM

Client: Talon/LPE Project/Site: Kimbrough Sweet

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

Lab Sample ID: LCS 860-1 Matrix: Water	ab Sample ID: LCS 860-1755/2-A						Client	Sample	ID: Lab Co		
Analysis Batch: 1692										Type: To p Batch	
Analysis Daten. 1052									110	p Daten	. 1755
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
Nitrobenzene-d5	134		46 - 151								
p-Terphenyl-d14	65		51 _ 139								
Lab Sample ID: LCSD 860	-1755/3-A					Clie	nt Sam	ple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Water								-	Prep 1	Type: Tot	tal/NA
Analysis Batch: 1692										p Batch	
-			Spike	LCSD	LCSD				%Rec.	-	RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acenaphthene			0.0182	0.02369		mg/L		130	73 - 145	2	30
Acenaphthylene			0.0182	0.02419		mg/L		133	78 - 133	2	30
Anthracene			0.0182	0.02519	*	mg/L		139	77 _ 127	3	30
Benzo[a]anthracene			0.0182	0.01521		mg/L		84	71 _ 142	4	3
Benzo[a]pyrene			0.0182	0.01034	*	mg/L		57	76 _ 140	10	3
Benzo[b]fluoranthene			0.0182	0.01185	*	mg/L		65	78 - 138	12	3
Benzo[g,h,i]perylene			0.0182	0.006682	*	mg/L		37	74 _ 138	7	3
Benzo[k]fluoranthene			0.0182	0.009083	*	mg/L		50	79 - 128	8	30
Chrysene			0.0182	0.01413		mg/L		78	70 - 160	1	30
Dibenz(a,h)anthracene			0.0182	0.005378	*	mg/L		30	76 - 129	18	30
Dibenzofuran			0.0182	0.02452	*	mg/L		135	77 - 131	1	3
Fluoranthene			0.0182	0.02495		mg/L		137	67 _ 142	2	30
Fluorene			0.0182	0.02448		mg/L		135	56 - 163	1	30
ndeno[1,2,3-cd]pyrene			0.0182	0.006090	*	mg/L		33	72 _ 122	11	3
Naphthalene			0.0182	0.02327	*	mg/L		128	70 - 126	2	3
Phenanthrene			0.0182	0.02431		mg/L		134	74 - 138	2	3
Pyrene			0.0182	0.02462	*	mg/L		135	66 - 126	3	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	123		54 - 146
Nitrobenzene-d5	130		46 - 151
p-Terphenyl-d14	61		51 - 139

# Lab Sample ID: MB 860-1997/1-A Matrix: Water

## Analysis Batch: 2072

-								
IV	B MB							
Analyte Res	It Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene <0.00018	32 U	0.000182	0.000100	mg/L		03/31/21 15:19	04/02/21 09:39	1
Acenaphthylene <0.0001	32 U	0.000182	0.0000842	mg/L		03/31/21 15:19	04/02/21 09:39	1
Anthracene <0.0001	32 U	0.000182	0.0000900	mg/L		03/31/21 15:19	04/02/21 09:39	1
Benzo[a]anthracene <0.00018	32 U	0.000182	0.000134	mg/L		03/31/21 15:19	04/02/21 09:39	1
Benzo[a]pyrene <0.00018	32 U	0.000182	0.0000571	mg/L		03/31/21 15:19	04/02/21 09:39	1
Benzo[b]fluoranthene <0.00018	32 U	0.000182	0.0000700	mg/L		03/31/21 15:19	04/02/21 09:39	1
Benzo[g,h,i]perylene <0.0001	32 U	0.000182	0.000113	mg/L		03/31/21 15:19	04/02/21 09:39	1
Benzo[k]fluoranthene <0.00018	32 U	0.000182	0.000116	mg/L		03/31/21 15:19	04/02/21 09:39	1
Chrysene <0.0001	32 U	0.000182	0.000156	mg/L		03/31/21 15:19	04/02/21 09:39	1
Dibenz(a,h)anthracene <0.00018	32 U	0.000182	0.0000760	mg/L		03/31/21 15:19	04/02/21 09:39	1
Dibenzofuran <0.0001	32 U	0.000182	0.000100	mg/L		03/31/21 15:19	04/02/21 09:39	1
Fluoranthene <0.0001	32 U	0.000182	0.000157	mg/L		03/31/21 15:19	04/02/21 09:39	1

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**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 1997

Client: Talon/LPE Project/Site: Kimbrough Sweet

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

Method: 8270D SIM - Sennod	biatrie Organ	ic compe	Sunds (GC/	113 3111)	Continu	uea)				
Lab Sample ID: MB 860-1997/1-A Matrix: Water Analysis Batch: 2072							Client Sa	mple ID: Metho Prep Type: <sup>-</sup> Prep Bato	Total/NA	4
	МВ	МВ								5
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Fluorene	<0.000182	U	0.000182	0.000101	mg/L		03/31/21 15:19	04/02/21 09:39	1	
Indeno[1,2,3-cd]pyrene	<0.000182	U	0.000182	0.0000913	mg/L		03/31/21 15:19	04/02/21 09:39	1	
Naphthalene	<0.00364	U	0.00364	0.0000972	mg/L		03/31/21 15:19	04/02/21 09:39	1	7
Phenanthrene	<0.000182	U	0.000182	0.0000850	mg/L		03/31/21 15:19	04/02/21 09:39	1	
Pyrene	<0.000182	U	0.000182	0.000130	mg/L		03/31/21 15:19	04/02/21 09:39	1	8
	MB	МВ								
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	9
2-Fluorobiphenyl	128		54 - 146				03/31/21 15:19	04/02/21 09:39	1	

Nitrobenzene-d5	120	
p-Terphenyl-d14	69	

#### Lab Sample ID: LCS 860-1997/2-A

#### Matrix: Water Analysis Batch: 2072

#### **Client Sample ID: Lab Control Sample**

04/02/21 09:39

04/02/21 09:39

03/31/21 15:19

03/31/21 15:19

Prep Type: Total/NA Prep Batch: 1997

1

1

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acenaphthene	0.0182	0.02403		mg/L		132	73 - 145
Acenaphthylene	0.0182	0.02478	*	mg/L		136	78 - 133
Anthracene	0.0182	0.02590	*	mg/L		142	77 - 127
Benzo[a]anthracene	0.0182	0.01415		mg/L		78	71 - 142
Benzo[a]pyrene	0.0182	0.008821	*	mg/L		49	76 - 140
Benzo[b]fluoranthene	0.0182	0.009998	*	mg/L		55	78 - 138
Benzo[g,h,i]perylene	0.0182	0.005388	*	mg/L		30	74 - 138
Benzo[k]fluoranthene	0.0182	0.007429	*	mg/L		41	79 - 128
Chrysene	0.0182	0.01353		mg/L		74	70 - 160
Dibenz(a,h)anthracene	0.0182	0.004335	*	mg/L		24	76 - 129
Dibenzofuran	0.0182	0.02467	*	mg/L		136	77 _ 131
Fluoranthene	0.0182	0.02470		mg/L		136	67 - 142
Fluorene	0.0182	0.02476		mg/L		136	56 - 163
Indeno[1,2,3-cd]pyrene	0.0182	0.004999	*	mg/L		27	72 - 122
Naphthalene	0.0182	0.02378	*	mg/L		131	70 - 126
Phenanthrene	0.0182	0.02438		mg/L		134	74 <sub>-</sub> 138
Pyrene	0.0182	0.02500	*	mg/L		138	66 - 126

46 - 151

51 - 139

	LCS		
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	123		54 - 146
Nitrobenzene-d5	125		46 - 151
p-Terphenyl-d14	57		51 - 139

#### Lab Sample ID: LCSD 860-1997/3-A Matrix: Water

#### Analysis Batch: 2072 Prep Batch: 1997 LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Acenaphthene 0.0182 0.02493 mg/L 137 73 - 145 30 4 Acenaphthylene 0.0182 0.02562 \* mg/L 141 78 - 133 3 30 Anthracene 0.0182 0.02656 mg/L 146 77 - 127 3 30 \* 0.0182 0.01590 Benzo[a]anthracene mg/L 87 71 - 142 30 12

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Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Job ID: 890-433-1 SDG: Hobbs NM

# Released to Imaging: 8/2/2022 2:58:10 PM

LCSD LCSD

0.01050

0.01143

0.006478

0.008980 \*

0.01555

0.005529

0.02556

0.02539

0.006106 \*

0.02472

0.02506

0.02608

0.02547 \*

**Result Qualifier** 

Unit

mg/L

Spike

Added

0.0182

0.0182

0.0182

0.0182

0.0182

0.0182

0.0182

0.0182

0.0182

0.0182

0.0182

0.0182

0.0182

Limits

54 - 146

46 - 151

51 - 139

Client: Talon/LPE Project/Site: Kimbrough Sweet

#### Job ID: 890-433-1 SDG: Hobbs NM

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

LCSD LCSD

%Recovery

127

129

66

Qualifier

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84

Lab Sample II	D: LCSD 860-1997/3-A	
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#### Matrix: Water Analysis Batch: 2072

Analyte

Chrysene

Dibenzofuran

Fluoranthene

Naphthalene

Phenanthrene

Fluorene

Pyrene

Surrogate

2-Fluorobiphenyl

Nitrobenzene-d5 p-Terphenyl-d14

Benzo[a]pyrene

Benzo[b]fluoranthene

Benzo[g,h,i]perylene

Benzo[k]fluoranthene

Dibenz(a,h)anthracene

Indeno[1,2,3-cd]pyrene

icaj		
<b>Client Sample ID:</b>	Lab Control	Sample Du

%Rec.

Limits

76 - 140

78 - 138

74 - 138

79 - 128

70 - 160

76 - 129

77 - 131

67 - 142

56 - 163

72 - 122

70 - 126

74 - 138

66 - 126

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

%Rec

58

63

36

49

86

30

140

141

140

34

136

138

143

D

Method: 8021	B - Volatile	organic	Compounds	(GC)

#### Lab Sample ID: MB 880-1096/8 Matrix: Water Analysis Batch: 1096

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			03/31/21 18:28	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			03/31/21 18:28	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			03/31/21 18:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			03/31/21 18:28	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			03/31/21 18:28	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			03/31/21 18:28	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			03/31/21 18:28	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	X	70 - 130			-		03/31/21 18:28	1

70 - 130

03/31/21	18:28
03/31/21	18:28

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

#### Lab Sample ID: LCS 880-1096/3 Matrix: Water

#### Analysis Batch: 1096

1,4-Difluorobenzene (Surr)

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09856		mg/L		99	70 - 130	
Toluene	0.100	0.1082		mg/L		108	70 - 130	
Ethylbenzene	0.100	0.1024		mg/L		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2091		mg/L		105	70 - 130	
o-Xylene	0.100	0.1134		mg/L		113	70 - 130	

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1

Client: Talon/LPE Project/Site: Kimbrough Sweet

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

94 105

# Lab Sample ID: LCS 880-1096/3

#### Matrix: Water Analysis Batch: 1096

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

# Lab Sample ID: LCSD 880-1096/4 Matrix: Water

#### Analysis Batch: 1096

-			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09825		mg/L		98	70 - 130	0	20
Toluene			0.100	0.1092		mg/L		109	70 - 130	1	20
Ethylbenzene			0.100	0.1014		mg/L		101	70 - 130	1	20
m-Xylene & p-Xylene			0.200	0.2073		mg/L		104	70 - 130	1	20
o-Xylene			0.100	0.1128		mg/L		113	70 - 130	1	20
	LCSD	LCSD									
Surrogate	%Recovery		Limits								

70 - 130

70 - 130

Lab Sample ID: 890-433-1	MS
Matrix: Water	

#### Analysis Batch: 1096

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	< 0.00200	U	0.100	0.1043		mg/L		104	70 - 130
Toluene	<0.00200	U	0.100	0.1139		mg/L		114	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1067		mg/L		107	70 - 130
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2185		mg/L		109	70 - 130
o-Xylene	<0.00200	U	0.100	0.1199		mg/L		120	70 - 130
		MS							

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

# Lab Sample ID: 890-433-1 MSD

#### Matrix: Water Analysis Batch: 1096

Analysis Baten. 1000											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.08754		mg/L		88	70 - 130	18	25
Toluene	<0.00200	U	0.100	0.09422		mg/L		94	70 - 130	19	25
Ethylbenzene	<0.00200	U	0.100	0.08693		mg/L		87	70 - 130	20	25
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1772		mg/L		89	70 - 130	21	25
o-Xylene	<0.00200	U	0.100	0.09663		mg/L		97	70 _ 130	22	25
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	94		70 - 130								
1,4-Difluorobenzene (Surr)	103		70 _ 130								

#### Eurofins Xenco, Carlsbad

## Job ID: 890-433-1 SDG: Hobbs NM

Prep Type: Total/NA

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

# Client Sample ID: MW-17 Prep Type: Total/NA

Client Sample ID: MW-17

Prep Type: Total/NA

# **QC Association Summary**

Client: Talon/LPE Project/Site: Kimbrough Sweet

# **GC/MS Semi VOA**

#### Analysis Batch: 1692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	4
MB 860-1755/1-A	Method Blank	Total/NA	Water	8270D SIM	1755	
LCS 860-1755/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	1755	5
LCSD 860-1755/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	1755	6
Prep Batch: 1755						0
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	7
890-433-10	MW-2A	Total/NA	Water	3511		
MB 860-1755/1-A	Method Blank	Total/NA	Water	3511		8
LCS 860-1755/2-A	Lab Control Sample	Total/NA	Water	3511		
LCSD 860-1755/3-A	Lab Control Sample Dup	Total/NA	Water	3511		9
Analysis Batch: 1868						10
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	IV
890-433-10	MW-2A	Total/NA	Water	8270D SIM	1755	11
Prep Batch: 1997						4.0
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	12
890-433-10	MW-2A	Total/NA	Water	3511		4.0
MB 860-1997/1-A	Method Blank	Total/NA	Water	3511		13
LCS 860-1997/2-A	Lab Control Sample	Total/NA	Water	3511		
LCSD 860-1997/3-A	Lab Control Sample Dup	Total/NA	Water	3511		14
Analysis Batch: 2072						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
				00700 0014	1997	
890-433-10	MW-2A	Total/NA	Water	8270D SIM	1997	
890-433-10 MB 860-1997/1-A	MW-2A Method Blank	Total/NA Total/NA	Water Water	8270D SIM 8270D SIM	1997 1997	

#### **GC VOA**

#### Analysis Batch: 1096

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-433-1	MW-17	Total/NA	Water	8021B	
890-433-2	MW-18	Total/NA	Water	8021B	
890-433-3	MW-15	Total/NA	Water	8021B	
890-433-4	MW-14	Total/NA	Water	8021B	
890-433-5	MW-16	Total/NA	Water	8021B	
890-433-6	MW-1A	Total/NA	Water	8021B	
890-433-7	MW-19	Total/NA	Water	8021B	
890-433-8	MW-8A	Total/NA	Water	8021B	
890-433-9	MW-7A	Total/NA	Water	8021B	
890-433-10	MW-2A	Total/NA	Water	8021B	
MB 880-1096/8	Method Blank	Total/NA	Water	8021B	
LCS 880-1096/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-1096/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-433-1 MS	MW-17	Total/NA	Water	8021B	
890-433-1 MSD	MW-17	Total/NA	Water	8021B	

Job ID: 890-433-1 SDG: Hobbs NM

Received b	v OCD:	3/22/2022	12:39:08 PM
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			l	Lab Chro	incle				
Client: Talon/LP Project/Site: Kir	'E nbrough Sweet								Job ID: 890-433 SDG: Hobbs N
	le ID: MW-17							Lah Samr	ole ID: 890-433
	: 03/23/21 08:30							Lab Samp	Matrix: Wat
	: 03/25/21 13:32								
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B		1	1096	03/31/21 18:53	MR	XM	
Client Samp	le ID: MW-18							Lab Samp	ole ID: 890-433
	: 03/23/21 09:00								Matrix: Wat
	03/25/21 13:32								
-	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B		1	1096	03/31/21 19:18	MR	XM	
Client Samp	le ID: MW-15							Lab Samp	ole ID: 890-433
	: 03/23/21 10:30								Matrix: Wat
Date Received:	03/25/21 13:32								
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B		1	1096	03/31/21 19:44	MR	XM	
Client Samp	le ID: MW-14							Lab Samp	ole ID: 890-433
	: 03/23/21 12:00								Matrix: Wat
Date Received:	03/25/21 13:32								
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B		1	1096	03/31/21 20:09	MR	XM	
Client Samp	le ID: MW-16							Lab Samp	ole ID: 890-433
	: 03/23/21 12:30								Matrix: Wat
Date Received:	03/25/21 13:32								
_	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B		1	1096	03/31/21 20:35	MR	XM	-
Client Samp	le ID: MW-1A							Lab Samp	ole ID: 890-433
Date Collected	: 03/23/21 13:00							-	Matrix: Wa
Date Received:	03/25/21 13:32								
_	Batch	Batch		Dilution	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B		1	1096	03/31/21 21:00	MR	XM	
Client Samp	le ID: MW-19							Lab Samp	ole ID: 890-433
Date Collected	: 03/24/21 09:30								Matrix: Wat
Date Received:	03/25/21 13:32								
-	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	1096	04/01/21 00:23	MR	XM

Eurofins Xenco, Carlsbad

Released to Imaging: 8/2/2022 2:58:10 PM

#### Lab Chronicle

#### Job ID: 890-433-1 SDG: Hobbs NM

# **Client Sample ID: MW-8A**

Project/Site: Kimbrough Sweet

Client: Talon/LPE

Date Collected: 03/24/21 10:30

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	1096	04/01/21 00:48	MR	XM
lient Sampl	e ID: MW-7A	<b>\</b>						Lab Sample ID: 890-43
ate Collected:	03/24/21 12:0	0						Matrix: Wa
Date Received:	03/25/21 13:32	2						
Date Received:	03/25/21 13:32 Batch	Batch		Dilution	Batch	Prepared		
Date Received:			Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab

# Date Received: 03/25/21 13:32

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	3511			1755	03/31/21 15:13	AH	XS
Total/NA	Analysis	8270D SIM		1	1868	04/01/21 12:52	EC1	XS
Total/NA	Prep	3511			1997	03/31/21 15:49	AH	XS
Total/NA	Analysis	8270D SIM		1	2072	04/02/21 12:32	EC1	XS
Total/NA	Analysis	8021B		1	1096	04/01/21 01:38	MR	ХМ

#### Laboratory References:

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

XS = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# Lab Sample ID: 890-433-8 Matrix: Water

# Accreditation/Certification Summary

Client: Talon/LPE
Project/Site: Kimbrough Sweet

Job ID: 890-433-1 SDG: Hobbs NM

## Laboratory: Eurofins Xenco, Midland

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

Authority	P	rogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-20-21	06-30-21	
-					
The following analytes	are included in this report, b	ut the laboratory is not certifie	ed by the governing authority. This list ma	ay include analytes for which	
The following analytes the agency does not of		ut the laboratory is not certifie	ed by the governing authority. This list ma	ay include analytes for which	
• •		ut the laboratory is not certifie Matrix	ed by the governing authority. This list ma Analyte	ay include analytes for which	

#### Laboratory: Eurofins Xenco, Stafford

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

Authority	F	Program	Identification Number	Expiration Date	C
Texas	Ν	NELAP	T104704215-21-39	06-30-21	
The following analytes the agency does not of		out the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for which	1
Analysis Method	Prep Method	Matrix	Analyte		
8270D SIM	3511	Water	Dibenzofuran		
					1

# **Method Summary**

#### Client: Talon/LPE Project/Site: Kimbrough Sweet

Job ID: 890-433-1 SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	XS
3021B	Volatile Organic Compounds (GC)	SW846	XM
3511	Microextraction of Organic Compounds	SW846	XS
5030B	Purge and Trap	SW846	XM

#### Protocol References:

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

#### Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440 XS = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

# Sample Summary

Client: Talon/LPE Project/Site: Kimbrough Sweet

#### Job ID: 890-433-1 SDG: Hobbs NM

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
90-433-1	MW-17	Water	03/23/21 08:30	03/25/21 13:32	
90-433-2	MW-18	Water	03/23/21 09:00	03/25/21 13:32	
90-433-3	MW-15	Water	03/23/21 10:30	03/25/21 13:32	
90-433-4	MW-14	Water	03/23/21 12:00	03/25/21 13:32	
90-433-5	MW-16	Water	03/23/21 12:30	03/25/21 13:32	
90-433-6	MW-1A	Water	03/23/21 13:00	03/25/21 13:32	
90-433-7	MW-19	Water	03/24/21 09:30	03/25/21 13:32	
90-433-8	MW-8A	Water	03/24/21 10:30	03/25/21 13:32	
90-433-9	MW-7A	Water	03/24/21 12:00	03/25/21 13:32	
90-433-10	MW-2A	Water	03/24/21 14:00	03/25/21 13:32	

	5
	8
	9
1	3

Page 61 of 154

eurofins

Chain of Custody

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

 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

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

Work Order No:

		Но	bbs, NM (57	Hobbs, NM (575) 392-7550, Carisbad, NM (575) 988-3 199	www.xenco.com Page of
Project Manager: David A	Akins	Bill to: (if different)	ent)	Plains All American	omments
-10	J.	Company Name:	ne:	Pipeline	Program: UST/PST PRP Brownfields RRC Superfund
~	< St.	Address:		Attn: Camille Bryant	
ezip: Artes	17 88210	City, State ZIP:		10757	Reporting: Level II Level III PST/UST TRRP Level IV
	4835	Email: dadk	ins	Q talon pe. com	Deliverables: EDD ADaPT Other:
Project Name: Kimbrough Supe	h Suget	Turn Around		ANALYSIS REQUEST	ST Preservative Codes
ber:	050,11	Routine Rush	Pres. Code		None: NO DI Water: H <sub>2</sub> O
Project Location: Hobbs, M	M	Due Date:			⊻
		TAT starts the day received by			
PO #:		the lab, if received by 4:30pm	s		H <sub>2</sub> SO 4:H <sub>2</sub> NaOH: Na
SAMPLE RECEIPT Temp Blank:	nk: Yes No	Wet Ice: Yes No	neter		H <sub>3</sub> PO 4: Hb
Samples Received Intact: Yes No	o Thermometer ID:	THU CON	aram		NaHSO 4: NABIS
Cooler Custody Seals: Yes No	N/A Correction Factor:	actor:	Pa		
Sample Custody Seals: Yeal No	N/A Temperature Reading:	-			
Fotal Containers:	Corrected temperature:	emperature: 1 V V		H	
Sample Identification	Matrix Date Sampled	Time Depth Grab/ Sampled Comp	# of Cont	BT. PA	Sample Comments
MW-17	GW 8/23/21	8:30 N/A	د س	X	Email Anglyticas
MW-18	( . /	1, 00:6	-		to. Camille Usian
		10:30			
MW-14		12:00			
MW - 16		+:0012:30			
MW-1A		09:30 1:00/0			
nw-19	1 8/24/21	10:30 9:70 2	-		
nw- gA	1	12:001030	L		
MW-JA		12:00			
MW-2A	/ /	2:00 /	5		
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		8RCRA 13PPM Texas 11 AI 3 TCLP / SPLP 6010 : 8RCRA	AI Sb RCRA SI	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg M CRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se	Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Tl Sn U V Zn Ag Tl U Hg: 1631/245.1/7470/7471
worce: signature of this document and relinquishmen of service. Eurofins Xenco will be liable only for the co	t of samples constitutes a v st of samples and shall not	alid purchase order from client comp assume any responsibility for any loss	any to Eurofi ies or expens	vorice: 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	and conditions nd the control
of Eurofins Xenco. A minimum charge of \$85.00 will be	e applied to each project a	nd a charge of \$5 for each sample su	bmitted to Eu	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	reviously negotiated.
Relinquished by: (Signature)	Received b	Received by: (Signature)		Date/Time Relinquished by: (Signature)	e) Received by: (Signature) Date/Time
Robell	Chere la	0	Ŵ	25.21 1332	
3 / .				4	
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Revised Date: 08/25/2020 Rev. 2020.2

Receivea	l by	<b>OCD:</b> .	3/22	/202	22 12.	39:08	PM															Pa	ge 62 of 1	54
Custody Seals Intact: ∆ Yes ∆ No	Relinquished by:	Relinquished by:	Empty Kit Relinquished by:	Deliverable Requested: I, II, III, IV, Other (specify)	Possible Hazard Identification	Note: Since laboratory <i>e</i> 890-433 Chain of Custody maintain accreditation it LLC attention immediate.				MW-2A (890-433-10)		Temp: <b>4. 1</b> IR ID:HOU-272 C/F:+0.1 Sample Identifica	S and a second s	Project Name: Kimbrough Sweet	Email:	Phone: 281-240-4200(Tel)	State, Zip: TX, 77477	City: Stafford	Address: 4147 Greenbriar Dr.	Company: Eurofins Xenco		- (s)	Eurofins Xenco, Carlsbad 1089 N Canal St. Carlsbad, NM 88220 Phone: 575-988-3199 Fax: 575-988-3199	1 2 3 4 5 6 7 8
	Date/Time: Company	Date/Time: Company	Date:	Primary Deliverable Rank: 2		mership of method, analyte & accreditation complianc d, the samples must be shipped back to the Eurofins ,				3/24/21 Mountain Water	ALCO Preservation Code:	Sample Matrix gro Type Sesolic Sample Cecomp, Consistent Sample Date Time G=grab) BT=Tissue, A-Air/	-	89000047	E			TAT Requested (days):	Due Date Requested: 3/31/2021		Phone: E-Maii: jessicc	Sampler: Krame	Chain of Custody Record	9 10 11 12 13 14
Cooler Temperature(s) °C and Other Remarks:	Received by: Date/Time:	Received by Date/Time	Method of S	Special Instructions/QC Requirements:	osal By Lab	nership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently d, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco -ad Chain of Custody attesting to said complicance to Eurofins Xenco LLC.						Perform MS/ 8270D/3510C (PAHs)	MSD ( Polyey		nr No)	Te		S	Analysis Requested	Accreditations Required (See note): NELAP - Texas	jessica.kramer@eurofinset.com New Mexico	r, Jessica	433	
Ver: 11/01/2020	Company	1050	Con		tained longer than 1 month) Archive ForMonths	nof-custody. If the laboratory does not currently tation status should be brought to Eurofins Xenco				N		Total Number Special Instructions/Note:	_	E.	J - DI Water K - EDTA	G - Antigrion S - n2504 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone			log	890-433-1	Page 1 of 1	CUC NO: 890-134.1	<b>eurofins</b> America	



#### After printing this label:

1. Use the 'Print' button on this page to print your label to you' laser or inkjet printer. 2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label an be read and scanned.

Warning: IMPORTANT: TRANSMIT YOUR SHIPPING DATA AND PRINT A MANIFEST: At the end of each shipping day, you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button. If required, print the pickup manifest that appears. A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground. If you are dropping your packages off at a FedEx drop off location, the manifest is not required.

manifest is not required. Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide and applicable tariff, available upon request. FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations, including limitations on our liability, can be found in the current FedEx Service Guide and applicable tariff apply. In no event shall FedEx Ground be liable for any special, incidental, or consequential damages, including, without limitation, loss of profit, loss to the intrinsic value of the package, loss of sale, interest income or attorney's fees. Recovery cannot exceed actual documented loss. Items of extraordinary value are subject to separate limitations of liability set forth in the Service Guide and tariff. Written claims must be filed within strict time limits, see current FedEx Service Guide.

# **Eurofins Xenco, Carlsbad**

# Chain of Custody Record

13

**eurofins** Environment Testing

Fax: 575-988-3190         Simple from:         Simple Sample Sample Sample Sample Sample Sample Sample Sample Sample Date Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample S	1089 N Canal St. Carlsbad NM 88220	C	<b>Chain of Custody Record</b>	f Custo	ody Re	900	ď	_													euro	💸 eurotins	S	3 5	Environment Testing	men	t Tes	ting
Cardinal Information         Game         Control         Contro         Control <thcontrol< th=""></thcontrol<>	Phone 575-988-3199 Fax: 575-988-3199																											
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Name:         Name: <th< td=""><td>Company Eurofins Xenco</td><td></td><td></td><td></td><td></td><td></td><td>itation</td><td>s Requir exas</td><td>ed (Sec</td><td>e note)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>968 Pop</td><td>433 <sup>#</sup></td><td><u>∽</u>  </td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Company Eurofins Xenco						itation	s Requir exas	ed (Sec	e note)										968 Pop	433 <sup>#</sup>	<u>∽</u>						
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Star. Direction       Column       Point       Point <td>City Midland</td> <td>TAT Requested (da)</td> <td>ys)</td> <td></td> <td></td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td>ľ</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>ישכ</td> <td></td> <td>stato</td> <td></td> <td></td> <td>Hexa</td> <td>3 19</td> <td></td> <td></td>	City Midland	TAT Requested (da)	ys)			7					ľ									ישכ		stato			Hexa	3 19		
Conversion         Org         Org <thorg< th="">         Org         <thorg< th=""> <thorg< td=""><td>State, Zip: TX, 79701</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>μοc</td><td>Nitric.</td><td>Acid O4</td><td></td><td>0 P (</td><td>Na2O Na2S</td><td>28</td><td></td><td></td></thorg<></thorg<></thorg<>	State, Zip: TX, 79701																			μοc	Nitric.	Acid O4		0 P (	Na2O Na2S	28		
Earling         MOL®         MOL®         Mol N           Enclosung Soeet         Biologo 7         Sample Markt         S	Phone <sup>.</sup> 432-704-5440(Tel)	PO#				)						<u>.</u>								r ص י	Amch		ï	ת מי 	12SO	403	ľ	ł
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Bits         SSOUE         Sample         Mark X         Sample Merrification - Client D (Lab D)         Sample Date         Time         Sample Merrification - Client D (Lab D)         Sample Date         Time         Sample Merrification - Client D (Lab D)         Sample Date         Time         Sample Date	Project Name: Kimbrough Sweet	Project #: 89000047																	taine	57	EDTA			_	pH 4.	.5 Speci	ffy)	
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ample interfactors         Sample Joan         The second for Code and the Second for		)			-		21B/5030B B												tal Number					-				
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MW-16 (800-433-2)     3/23/21     Mountain Munipin     Water     X     I     I     I     I     I     I     I       MW-16 (800-433-3)     3/23/21     1/23/21 <t< td=""><td>MW-17 (890-433-1)</td><td></td><td>08 30 Mountain</td><td></td><td>Water</td><td></td><td>×</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>ω</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	MW-17 (890-433-1)		08 30 Mountain		Water		×												ω									
MW-16 (800-433-3)     3/23/21     10/20/1     Water     X     I<	MW-18 (890-433-2)		09 00 Mountain		Water		×												ω									
MW-14 (800-433-4)     3/23/21     Mguntain     Water     X     I	MW-15 (890-433-3)		10 30 Mountain		Water		×												ω									
MW-16 (890-433-5)     3/23/21     Munipin     Water     X     I     I     3       MW-1A (890-433-6)     3/23/21     Monipin     Water     X     I     I     I     3       MW-14 (890-433-7)     3/24/21     Monipin     Water     X     I     I     I     3       MW-19 (890-433-7)     3/24/21     Monipin     Water     X     I     I     I     3       MW-18 (890-433-8)     3/24/21     10/30     Water     X     I     I     I     3       MW-18 (890-433-8)     3/24/21     10/30     Water     X     I     I     I     3       MW-18 (890-433-9)     3/24/21     10/30     Water     X     I     I     I     3       MW-74 (890-433-9)     3/24/21     10/30     Water     X     I     I     I     3       MW-74 (890-433-9)     3/24/21     10/01/30     Water     X     I     I     I     3       MW-54 (890-433-9)     3/24/21     10/01/30     Water     X     I     I     I     3       Mu-54 (890-433-9)     3/24/21     10/01/30     Water     X     I     I     I     3       Muter     Sizer/21/21     Jai	MW-14 (890-433-4)		12 00 Mountain		Water		×												N									
MW-1A (800-433-6)     3/23/21     100     Water     X     1     2       MW-19 (800-433-7)     3/24/21     Mountain     Water     X     1     3       MW-19 (800-433-8)     3/24/21     Mountain     Water     X     1     3       MW-4A (800-433-8)     3/24/21     10/30     Water     X     1     3       MW-4A (800-433-8)     3/24/21     10/20     Water     X     1     3       MW-7A (800-433-8)     3/24/21     Mountain     Water     X     1     3       MV-10 (200-433-8)     3/24/21     Mountain     Water     X     1     3       Moter Stree laboratory accellations are subject to change. Eurofits Xenco LLC between the signed Chan of Custody attesting to said complicance to Eurofits Xenco LLC     1     3	MW-16 (890-433-5)		12 30 Mountain		Water		×												ω									
MW-19 (890-433-7)     3/24/21     Mountain     Water     X     I     I     I       MW-8A (880-433-8)     3/24/21     10.30     Water     X     I     I     I     I     I     I       MW-8A (880-433-8)     3/24/21     10.30     Water     X     I     I     I     I     I       Note: Stee laboratory accreditations are subject to change. Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custedy if the laboratory does not currently manianian accreditations are currently being subject to chain-of-custedy if the laboratory does not currently include accreditations are currently being subject to chain-of-custedy if the laboratory does not currently manianian accreditation in the State of Origin Issee accreditation subject to take intervently being to said complicance to Eurofins Xenco LC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LC aboratory or other instructions will be provided. Any changes to accredi	MW-1A (880-433-6)		13 00 Mountain		Water		×												N									
MW-BA (890-433-9)     3/24/21     10 30 Mountain     Water     X     I     I     I     I       NW-7A (890-433-9)     3/24/21     1/200     Water     X     I     I     I     I     I       NW-7A (890-433-9)     3/24/21     1/200     Water     X     I	MW-19 (890-433-7)		09 30 Mountain		Water		×												w	1999990102								
MW-7A (890-433-9)       3/24/21       12.00       Water       X       3         Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/maints being analyzed the sample accreditation compliance upon out subcontract laboratory of the instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory of the instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory of the instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory of the instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory of the instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory of the instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory of the instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory of the instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory of the instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory of the instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory of the instructions/QC Requirements.         Empty Kit Relinquished by       Date/Time:       Date/Time:       Date/Time: </td <td>MW-8A (890-433-8)</td> <td></td> <td>10 30 Mountain</td> <td></td> <td>Water</td> <td></td> <td>×</td> <td></td> <td>ω</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	MW-8A (890-433-8)		10 30 Mountain		Water		×												ω									
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Sample Disposal (A fee may be assessed if samples are retained longer than 1 mc       Primary Deliverable Rank 2     Return To Client     Disposal By Lab     Archive For       Primary Deliverable Rank 2     Special Instructions/QC Requirements.       Date     Time     Method of Shipment.       25 · 24     Date/Time:     Company     Received by     Date/Time:     Date/Time:       Date/Time:     Company     Received by     U/// U/// Date/Time:     Date/Time:     Company	Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC maintain accreditation in the State of Origin listed above for analysis/lests/matrix t LLC attention immediately if all requested accreditations are current to date, ret	places the ownership being analyzed the sa irn the signed Chain o	of method anal amples must be of Custody attest	yte & accredita shipped back tr ling to said corr	tion complian o the Eurofins pplicance to E	ce upo Xenco urofins	n out o LLC s Xenc	subconti laborato lo LLC	act labo ry or oti	pratorie ner ins	s. Thi tructior	s samp 18 will I	ve pro	pment vided.	is for Any	warde chanç	es to	der ch accru	hain⊣ edita:	of-cu: tion s	stody tatus	If the should	9 laboı d be b	ratory	/ does	i not c	ns Xe	nco
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Date/Time: Company Received by Date/Time: Date/Time:	Cho Cult			0			Rec	eived by	2			$\sim$	$\setminus$			Date/	L.	16		~	=	2	2	C Q	npany	1		
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Relinquished by:

Date/Time: Date/Time:

Company Company

Date/Time Date/Time

Company

Cooler Temperature(s) °C and Other Remarks.

Ver 11/01/2020

Received by

Custody Seals Intact. ∆ Yes ∆ No

Custody Seal No

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urofins Xenco, Carlsbad 19 N Canal St.	
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# Received by OCD: 3/22/2022 12:39:08 PM

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1089 N Canal St. Carlsbad, NM 88220	~	Chain of Custody Record	of Cust	ody Re	00	řd								se se	<ul> <li>eurorins</li> </ul>	+hunits	Environment Testing America
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer Lessica		reins				Carrier	Carrier Tracking No(s):	No(s):		• 0	COC No:		
ntact: g/Receiving	Phone:			E-Mail. iessic	a kran	ner@	E-Mail. lessica kramer@eurofinset.com	tcom		State o	State of Origin: New Mexico			0.0	Page: Page 1 of 2		
Company Eurofins Xenco					Accreditations Requ NELAP - Texas	P - Te	Accreditations Required (See note): NELAP - Texas	see note):		ľ				<u>م ب</u>	Job #: 890-433-1		
Address: 1211 W Florida Ave, ,	Due Date Requested: 3/31/2021	ed:						Analysis		Requested	ed				Preservation Codes	n Codes	
City Midland	TAT Requested (days).	ays).												1	A HCL B-NaOH		M - Hexarie N - None
State, Zip: TX, 79701	<u></u>														C - Zn Acetate D - Nitric Acid E - NaHSO4		Q - Asnauz P - Na204S Q - Na2SO3
Phone: 432-704-5440(Tel)	PO#				<u>, estan</u>									0 1	F - MeOH G - Amchlor		- Na2S2O3 - H2SO4
Email	WO #:													Sector States	H ASCORDIC ACIO   - Ice J - DI Water	ACIO	i ISP Dodecanydrate U - Acetone V - MCAA
Project Name: Kimbrough Sweet	Project #: 89000047													and come	k edta L eda	NŞ	W - pH 4-5 Z - other (specify)
Site	SSOW#:				WE WE	TEX								and and and	Other-		
			Sample Type		Filtered m MS/N	5030B B								Vumber			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	6.6	O=waste/oll, BT=Tissue, A=Air}		8021 B								Total	Spec	xial Instru	Special Instructions/Note
	$\mathbb{N}$		Preservation Code	on Code	钗									X			
MVV-17 (890-433-1)	3/23/21	Mountain		Water		×								<u></u>			
MW-18 (890-433-2)	3/23/21	09 00 Mountain		Water		×								ω			
MW-15 (890-433-3)	3/23/21	10 30 Mountain		Water		×								ω			
MW-14 (890-433-4)	3/23/21	12.00 Mountain		Water		×								'N			
MW-16 (890-433-5)	3/23/21	12.30 Mountain		Water		×								ω			
MW-1A (890-433-6)	3/23/21	13 00 Mountain		Water		×								N			
MW-19 (890-433-7)	3/24/21	09-30 Mountain		Water		×								ω			
MW-8A (890-433-8)	3/24/21	10-30 Mountain		Water		×								ω			
MW-7A (890-433-9)	3/24/21	12 00 Mountain		Water		×								ω	<del>ان</del> وراب		
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Possible Hazard Identification					_Sa	- le	Sample Disposal ( A	fee	nay be	assess	ed if si	mples	] are re	taine	may be assessed if samples are retained longer than 1		month)
Deliverable Requested 1 II, III, IV, Other (specify)	Primary Deliverable Rank	able Rank 2			Spe	cial	Special Instructions/Q	IS/QC Re	C Requirements	ents	a by La	ē		AIGIIVE FUI			MURIINS
Empty Kit Relinquished by		Date.			Time					- 2	Method of Shipment:	Shipmer	ň				
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reinquished by	Date/Time:		0	Company		Rece	Received by:					Date/Time:	me:			0	Company
Custody Seals Intact: Custody Seal No ∆ Yes ∆ No						Coole	Cooler Temperature(s	ဂိ	and Other Remarks	emarks.							

Page 65 of 154

# Received by OCD: 3/22/2022 12:39:08 PM

Relinquished by Date/Time:	N CO C CHAN SAN	CACK KAR	V.	linquished by	r, III, IV, Uther (specify)		Possible Hazard Identification	Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chan of Custody attesting to said complicance to Eurofins Xenco LLC.							MW-2A (890-433-10) 3/24/21		Sample Identification - Client ID (Lab ID) Sample Date	Site: SSOW#:	Project Name: Project #: Kimbrough Sweet 88000047		Phone: P0 # 432-704-5440(Tel)	1p: 3701	City Midland	Address. Due Date Requested 1211 W Florida Ave, 3/31/2021	Company Eurofins Xenco		Client Information (Sub Contract Lab)	199	Eurofins Xenco, Carlsbad
	<b>*</b>			Date	Primary Deliverable Rank. 2			nership of method, d the samples mus Chain of Custody a	 							$\langle \rangle$	Sample Date Time						sted (days):	equested				Chain	
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0		Re	Re	Time:	Spec		Samp	e upan au (enco LL) rofins Xer			<b> </b>				×	<b>S</b>	Perform MS/ 8021B/6030B I	MSD (Y							Accreditations Required (See note): NELAP - Texas	E-Mail jessica kramer@eurofinset.com	Lab PM. Kramer, Jessica	cor	
Cooler Temperature(s)	Received by:	Received by	Received		Special Instructions/QC Requirements	Return To Client	Sample Disposal ( A	t subcon C laborat co LLC.							$\hat{}$	-									ns Requ Texas	r@euro	ស	2	
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						Archive For	ee may be assessed if samples are retained longer	of-custoc tion statu		1								Other:	L EDA	J DI Water	G An			Prese	Job #: 890-433-1	Page Page 2 of 2	COC No. 890-132.2	😵 eurotins	•
			3()0.1~				ger than	y If the s should									Specia		13	Vater	G Amchlor H - Ascorbic Acid	Nitric Acid NaHSO4	)H Acetate	Preservation Codes	33-1	2 of 2	92.2 32.2	rotu	נ
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	Company	Company	Company			Months	month)	ny does not cu ght to Eurofins	-							K	Special Instructions/Note		z other (specify)	U - Acetone V MCAA	rr - Nazozou S H2SO4 T - TSP Dodecahydrate	P - Na204S Q - Na2SO3	N - None O AsNaO2					Li ronne Amerca	

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Ver 11/01/2020

Job Number: 890-433-1 SDG Number: Hobbs NM

List Source: Eurofins Carlsbad

## Login Sample Receipt Checklist

Client: Talon/LPE

#### Login Number: 433 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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True

Sample bottles are completely filled. Sample Preservation Verified.

There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

N/A

True

N/A

Job Number: 890-433-1 SDG Number: Hobbs NM

List Source: Eurofins Midland

List Creation: 03/26/21 11:55 AM

# Login Sample Receipt Checklist

Client: Talon/LPE

Login Number: 433 List Number: 2 Creator: Copeland, Tatiana

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-433-1 SDG Number: Hobbs NM

List Source: Eurofins Midland

List Creation: 03/26/21 11:56 AM

# Login Sample Receipt Checklist

Client: Talon/LPE

Login Number: 433 List Number: 3 Creator: Copeland, Tatiana

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

14

Job Number: 890-433-1 SDG Number: Hobbs NM

List Source: Eurofins Stafford

List Creation: 03/27/21 11:15 AM

# Login Sample Receipt Checklist

Client: Talon/LPE

Login Number: 433 List Number: 4 Creator: Torres, Sandra

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	5.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 3/22/2022 12:39:08 PM

# eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 890-440-1

Laboratory Sample Delivery Group: 700376.050.11 Client Project/Site: Kimbrough

# For:

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

Attn: David Adkins

KRAMER

Authorized for release by: 4/2/2021 10:50:22 AM

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

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

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

LINKS **Review your project** results through **Total** Access **Have a Question?** Ask-The Expert Visit us at:

www.eurofinsus.com/Env Released to Imaging: 8/2/2022 2:58:10 PM

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Laboratory Job ID: 890-440-1 SDG: 700376.050.11

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Client: Talon/Ll Project/Site: Ki		Job ID: 890-440-1 SDG: 700376.050.11	2
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.		
U	Analyte was not detected at or above the SDL.		5
Х	Surrogate recovery exceeds control limits		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		0
CFL	Contains Free Liquid		0
CFU	Colony Forming Unit		0
CNF	Contains No Free Liquid		9
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)		13
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		

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#### **Case Narrative**

Client: Talon/LPE Project/Site: Kimbrough

#### Job ID: 890-440-1

#### Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-440-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 3/26/2021 12:10 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.0° C.

#### GC VOA

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

#### VOA Prep

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

4

5

Job ID: 890-440-1

SDG: 700376.050.11

#### **Client Sample Results**

Job ID: 890-440-1 SDG: 700376.050.11

Matrix: Water

5

Lab Sample ID: 890-440-1

Lab Sample ID: 890-440-2

Matrix: Water

#### **Client Sample ID: MW-12** Date Collected: 03/26/21 09:00

Project/Site: Kimbrough

Client: Talon/LPE

Date Received: 03/26/21 12:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000842	J	0.00200	0.000408	mg/L		•	04/01/21 22:38	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			04/01/21 22:38	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			04/01/21 22:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			04/01/21 22:38	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			04/01/21 22:38	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			04/01/21 22:38	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			04/01/21 22:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 _ 130			-		04/01/21 22:38	1
1,4-Difluorobenzene (Surr)	107		70 - 130					04/01/21 22:38	1

#### **Client Sample ID: MW-13**

Date Collected: 03/26/21 09:20

#### Date Received: 03/26/21 12:10

Method: 8021B - Volatile Organ	ic Compounds (	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			04/01/21 23:03	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			04/01/21 23:03	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			04/01/21 23:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			04/01/21 23:03	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			04/01/21 23:03	1
Xylenes, Total	<0.00400	U	0.00400	0.00100	mg/L			04/01/21 23:03	1
Total BTEX	<0.00200	U	0.00200	0.00100	mg/L			04/01/21 23:03	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130					04/01/21 23:03	1
1,4-Difluorobenzene (Surr)	105		70 - 130					04/01/21 23:03	1

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Job ID: 890-440-1

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

atrix:	Water	

_				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-440-1	MW-12	104	107		Ē
890-440-2	MW-13	109	105		
LCS 880-1096/64	Lab Control Sample	88	104		5
LCSD 880-1096/65	Lab Control Sample Dup	103	108		
MB 880-1070/5-A	Method Blank	66 X	85		
MB 880-1096/69	Method Blank	67 X	86		
Surrogate Legend					
BFB = 4-Bromofluorob	enzene (Surr)				
DFBZ = 1,4-Difluorobe	nzene (Surr)				4
					1

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SDG: 700376.050.11

Prep Type: Total/NA

#### **QC Sample Results**

Client: Talon/LPE Project/Site: Kimbrough

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

Lab Sample ID: MB 880-1070/5-A									Client Sa	mple ID: Metho	d Blank
Matrix: Water										Prep Type: 7	Total/NA
Analysis Batch: 1096										Prep Bate	ch: 1070
	MB	MB									
Analyte	Result	Qualifier	RL	M	DL Unit		D	P	repared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.0004	08 mg/L		_	03/3	0/21 13:10	04/01/21 07:34	1
Toluene	<0.00200	U	0.00200	0.0003	67 mg/L			03/3	0/21 13:10	04/01/21 07:34	1
Ethylbenzene	<0.00200	U	0.00200	0.0006	57 mg/L			03/3	0/21 13:10	04/01/21 07:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.0006	29 mg/L			03/3	0/21 13:10	04/01/21 07:34	1
o-Xylene	<0.00200	U	0.00200	0.00064	42 mg/L			03/3	0/21 13:10	04/01/21 07:34	1
Xylenes, Total	<0.00400	U	0.00400	0.001	00 mg/L			03/3	0/21 13:10	04/01/21 07:34	1
Total BTEX	<0.00200	U	0.00200	0.001	00 mg/L			03/3	0/21 13:10	04/01/21 07:34	1
	МВ	MB									
Surrogate	%Recovery	Qualifier	Limits					P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	66	X	70 - 130					03/3	0/21 13:10	04/01/21 07:34	1
1,4-Difluorobenzene (Surr)	85		70 - 130					03/3	0/21 13:10	04/01/21 07:34	1
— Г											
Lab Sample ID: MB 880-1096/69									Client Sa	mple ID: Metho	
Matrix: Water										Prep Type:	Fotal/NA
Analysis Batch: 1096											
	MB						_	_			
Analyte		Qualifier	RL		DL Unit		D	Pi	repared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.0004	•					04/01/21 20:08	1
Toluene	<0.00200		0.00200	0.0003	0					04/01/21 20:08	1
Ethylbenzene	<0.00200		0.00200	0.0006						04/01/21 20:08	1
m-Xylene & p-Xylene	<0.00400		0.00400		29 mg/L					04/01/21 20:08	1
o-Xylene	<0.00200		0.00200		42 mg/L					04/01/21 20:08	1
Xylenes, Total	<0.00400		0.00400	0.001	· · · · · · · · ·					04/01/21 20:08	1
Total BTEX	<0.00200	U	0.00200	0.001	00 mg/L					04/01/21 20:08	1
	MB	MB									
Surrogate	%Recovery	Qualifier	Limits					P	repared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	X	70 - 130							04/01/21 20:08	1
1,4-Difluorobenzene (Surr)	86		70 - 130							04/01/21 20:08	1
Lab Sample ID: LCS 880-1096/64							С	lient	Sample	ID: Lab Control	Sample
Matrix: Water										Prep Type: 7	Total/NA
Analysis Batch: 1096											
			Spike	LCS L	CS					%Rec.	
Analyte			Added	Result Q	ualifier	Unit		D	%Rec	Limits	
Benzene			0.100	0.09503		mg/L		_	95	70 - 130	
Toluene			0.100	0.09979		mg/L			100	70 - 130	

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

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70 - 130

70 - 130

70 - 130

92

93

101

Job ID: 890-440-1 SDG: 700376.050.11

Ethylbenzene

o-Xylene

m-Xylene & p-Xylene

0.100

0.200

0.100

0.09228

0.1856

0.1014

mg/L

mg/L

mg/L

#### **QC Sample Results**

Job ID: 890-440-1 SDG: 700376.050.11

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

Lab Sample ID: LCSD 880-1096/65 Matrix: Water Analysis Batch: 1096				Clie	ent San	nple ID:	Lab Contro Prep 1	ol Sampl Type: To		
Analysis Batch. 1050	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.09041		mg/L		90	70 - 130	5	20	
Toluene	0.100	0.09880		mg/L		99	70 - 130	1	20	2
Ethylbenzene	0.100	0.09219		mg/L		92	70 - 130	0	20	
m-Xylene & p-Xylene	0.200	0.1878		mg/L		94	70 - 130	1	20	
o-Xylene	0.100	0.1063		mg/L		106	70 - 130	5	20	

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

5

Client: Talon/LPE Project/Site: Kimbrough

Job ID: 890-440-1 SDG: 700376.050.11

#### GC VOA

#### Prep Batch: 1070

Prep Batch	Method	Matrix	Prep Type	Client Sample ID	Lab Sample ID
	5035	Water	Total/NA	Method Blank	MB 880-1070/5-A
					nalysis Batch: 1096
Prep Batch	Method	Matrix	Ргер Туре	Client Sample ID	ab Sample ID
	8021B	Water	Total/NA	MW-12	90-440-1
	8021B	Water	Total/NA	MW-13	90-440-2
1070	8021B	Water	Total/NA	Method Blank	1B 880-1070/5-A
	8021B	Water	Total/NA	Method Blank	B 880-1096/69
	8021B	Water	Total/NA	Lab Control Sample	CS 880-1096/64
	8021B	Water	Total/NA	Lab Control Sample Dup	CSD 880-1096/65

				Lab Chro	nicle				
Client: Talon/LP Project/Site: Kir								Job ID: 890-440- SDG: 700376.050.1	
Client Samp	le ID: MW-12	2						Lab Sample ID: 890-440-	1
	: 03/26/21 09:0							Matrix: Wate	er
ate Received:	03/26/21 12:10	0							-
	Batch	Batch		Dilution	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8021B		1	1096	04/01/21 22:38	MR	XM	
lient Samp	le ID: MW-13	3						Lab Sample ID: 890-440-2	2
	: 03/26/21 09:2							Matrix: Wate	er
ate Received:	03/26/21 12:1	D							- 1
-	Batch	Batch		Dilution	Batch	Prepared			
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	1
Total/NA	Analysis	8021B		1	1096	04/01/21 23:03	MR	XM	
Laboratory Refer		W. Florida Ave, Mid	land TX 79701 T	FI (432)704-544	.0				
				LL (+02)/ 0+ 0+4					
									- 1

#### **Accreditation/Certification Summary**

Clie	nt:	Talon	/LPE
Pro	ject	/Site:	Kimbrough

Job ID: 890-440-1 SDG: 700376.050.11

Laboratory:	Eurofins	Xenco.	Midland
Luboratory.	Luionno	7,01100,	manana

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

Authority	Pi	rogram	Identification Number	Expiration Date
Texas	N	NELAP T1047044		06-30-21
The following analytee	are included in this report by	ut the laboratory is not cortifi	ed by the governing authority. This list ma	av include analytes for
the agency does not of			ed by the governing authority. This list the	ay include analytes for
0,		Matrix	Analyte	ay include analytes to

#### **Method Summary**

#### Client: Talon/LPE Project/Site: Kimbrough

Job ID: 890-440-1 SDG: 700376.050.11

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

#### Protocol References:

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

#### Laboratory References:

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

#### Sample Summary

Client: Talon/LPE Project/Site: Kimbrough Job ID: 890-440-1 SDG: 700376.050.11

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID	
890-440-1	MW-12	Water	03/26/21 09:00	03/26/21 12:10		4
890-440-2	MW-13	Water	03/26/21 09:20	03/26/21 12:10		
						5
						8
						9
						1:
						1:

4/2/2021

Received by OCD: 3/22/2022 12:39:08 PM

	Custody Seals Intact Custody Seal No ∆ Yes ∆ No	Relinquished by	Keiinquished by	Relinquished by Alor Cuffs 326:	Empty Kit Relinquished by	Deliverable Requested 1 II III IV, Other (specify)	Possible Hazard Identification Unconfirmed	Invoit: Since laboratory accreditations are subject to change. Eurorins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brough to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.						MW-13 (890-440-2)	MW-12 (890-440-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name: Kimbrough	Email	Phone: 432-704-5440(Tel)	State, Zip: TX, 79701	City Midland	Address. 1211 W Florida Ave ,	Company Eurofins Xenco	Client contact Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St. Carlsbad, NM 88220 Phone 575-988-3199 Fax: 575-988-3199	Eurofins Xenco, Carlsbad
		Date/Time:	Date/Time:	Date/Time:		Primary Deliverable Rank		<sub>-</sub> C places the ownership c rix being analyzed, the sar return the signed Chain of						3/26/21	3/26/21	M	Sample Date	SSOW#:	Project #: 89000047	WO#	PO#		TAT Requested (days)	Due Date Requested 4/1/2021		Phone:	Sampler	0	
					Date	ole Rank 2		of method analy mples must be s Custody attestir						09 20 Mountain		$\mu$	Sample (C Time G						s)					hain of	
		Company	Company	Company				le & accreditatior hipped back to tr ng to said compli						5	W	Preservation Code:	Sample Matrix Type (W=water S=solid, G=grab) BT=Tissue, A-Air											Chain of Custody Record	
		any	any	any	Time			) compliance u le Eurofins Xer cance to Eurofi						Water	Water	47.659H	Field Filterec				0)	14.00			Acon	E-Mail jessica ki	ļ <u>ģ</u> >	dy Rec	
	Cooler Temperature	Received by	Rečeived by	Regeived	n	Special Instructions/QC Requirements	Sample Disposal (	pon out subco hco LLC labora ns Xenco LLC						×	×	X I	Perform MS/ 8021B/5030B		es or	NO)		<u> Allender</u>			Accreditations Required (Se NELAP - Texas	E-Mail Jessica kramer@eurofinset.com	Jessica	ord	
	mperature(s)	by		W CD		ructions/QC		ntract laborato atory or other i																An	uired (See note):	ofinset.com			
	(s) °C and Other Remarks.			E M		Requirem	ee may be	nstructions wi				 												Analysis Re	te):				
	Remarks.				Meth	ents.	assessed if san Disposal By Lab	mple shipmer Il be provided																Requested		State of Origin: New Mexico	Carrier Tra		
	ŀ	Date/Time:	Date/Time	Date/T ろ	Method of Shipment:		<b>if sample</b> . 3y Lab	It is forwarded Any change									ennedand at of									igin: (ico	Carrier Tracking No(s):		
		ïme:	ìme:	Time: 12912	'nt		s are retai	d under chair s to accredit		ç	1	26.3	7.53	<b>w</b>	ω		Total Numbe	rofco	ntaine	rs	ý.								
				WW V			A fee may be assessed if samples are retained longer than 1 month) ant	n-of-custody If ation status sh	<u>Kana d</u>	ktind	<u>(</u>	<u>Les Mar</u>						Other:		いちぶんちょうしょう	<u>kundi diki</u>	D Nitric Acid E NaHSO4	B - NaOH	Preservation Codes	Job #: 890-440-1	Page: Page 1 of 1	COC No: 890-135 1	के chioillis	
V		0		۵M			than 1 m	the laborator ould be broug								V	cial Instru		N					្ត	_	-			
Ver 11/01/2020		Company	Company	Company			onth) Months	ry does not cur ght to Eurofins								$\left  \right $	Special Instructions/Note:		pri 4-5 other (specify)	Acetone MCAA	Na2S2O3 H2SO4 TSP Dodecah	P Na2O4S Q - Na2SO3	Hexane None					Environment Testing America	
ö								Trently Xenco													vdrate							Testing	

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Job Number: 890-440-1 SDG Number: 700376.050.11

List Source: Eurofins Carlsbad

#### Login Sample Receipt Checklist

Client: Talon/LPE

#### Login Number: 440 List Number: 1

<6mm (1/4").

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	N/A	

Job Number: 890-440-1 SDG Number: 700376.050.11

List Source: Eurofins Midland

List Creation: 03/29/21 12:00 PM

#### Login Sample Receipt Checklist

Client: Talon/LPE

Login Number: 440 List Number: 2 Creator: Copeland, Tatiana

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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LINKS

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**Total** Access

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## **Environment Testing** America

## **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 890-839-1

Client Project/Site: Kimbrough Sweet 8" (KIM)

For:

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

Attn: David Adkins

RAMER

Authorized for release by: 6/24/2021 8:13:57 AM

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

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

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

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#### Definitions/Glossary

DL, RA, RE, IN

DLC

EDL

LOD

LOQ

MCL

MDA

MDC MDL

ML

NC ND

NEG

POS

PQL PRES

QC

RER

RPD TEF

TEQ

TNTC

RL

MPN MQL

	Definitions/Glossary	1
Client: Talon/ Project/Site: I	_PE Job ID: 890-839-1 (imbrough Sweet 8" (KIM)	2
Qualifiers		3
GC VOA Qualifier	Qualifier Description	4
J S1-	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. Surrogate recovery exceeds control limits, low biased.	5
S1+ U	Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.	6
Glossary		7
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	0
%R	Percent Recovery	Ο
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	9
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	

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

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

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

Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin) Most Probable Number

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

Quality Control

Limit of Quantitation (DoD/DOE)

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#### Job ID: 890-839-1

#### Laboratory: Eurofins Xenco, Carlsbad

#### Narrative

Job Narrative 890-839-1

#### Receipt

The samples were received on 6/21/2021 8:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: MW-8A (890-839-1), MW-7A (890-839-2), MW-19 (890-839-3), MW-1A (890-839-4), MW-16 (890-839-5), MW-12 (890-839-6), MW-14 (890-839-7), MW-15 (890-839-8), (LCS 880-4464/34), (LCSD 880-4464/35), (MB 880-4464/39), (880-3234-A-7), (880-3234-A-7 MS) and (880-3234-A-7 MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

Matrix: Water

Lab Sample ID: 890-839-1

Lab Sample ID: 890-839-2

Matrix: Water

#### Client: Talon/LPE Project/Site: Kimbrough Sweet 8" (KIM)

#### **Client Sample ID: MW-8A**

Date Collected: 06/18/21 08:30 Date Received: 06/21/21 08:01

Sample Depth: - N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 03:22	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/23/21 03:22	1
Ethylbenzene	0.000987	J	0.00200	0.000657	mg/L			06/23/21 03:22	1
m-Xylene & p-Xylene	0.00219	J	0.00400	0.000629	mg/L			06/23/21 03:22	1
o-Xylene	0.000959	J	0.00200	0.000642	mg/L			06/23/21 03:22	1
Xylenes, Total	0.00315	J	0.00400	0.000642	mg/L			06/23/21 03:22	1
Total BTEX	0.00414		0.00400	0.000657	mg/L			06/23/21 03:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			-		06/23/21 03:22	1
1,4-Difluorobenzene (Surr)	147	S1+	70 - 130					06/23/21 03:22	1

#### **Client Sample ID: MW-7A**

Date Collected: 06/18/21 09:30 Date Received: 06/21/21 08:01 Sample Depth: - N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 03:48	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/23/21 03:48	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 03:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/23/21 03:48	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 03:48	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/23/21 03:48	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/23/21 03:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 _ 130			-		06/23/21 03:48	1
1,4-Difluorobenzene (Surr)	146	S1+	70 - 130					06/23/21 03:48	1

#### Date Collected: 06/18/21 10:30

Date Received: 06/21/21 08:01

Sample Depth: - N/A

Method: 8021B - Volatile Orga	nic Compounds (	GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 04:13	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/23/21 04:13	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 04:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/23/21 04:13	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 04:13	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/23/21 04:13	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/23/21 04:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			-		06/23/21 04:13	1
1,4-Difluorobenzene (Surr)	141	S1+	70 - 130					06/23/21 04:13	1

Matrix: Water

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Lab Sample ID: 890-839-4

Lab Sample ID: 890-839-5

Matrix: Water

Matrix: Water

#### Client: Talon/LPE Project/Site: Kimbrough Sweet 8" (KIM)

#### **Client Sample ID: MW-1A**

Date Collected: 06/18/21 10:00 Date Received: 06/21/21 08:01

Sample Depth: - N/A

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac D Prepared Benzene <0.00200 U 0.00200 0.000408 mg/L 06/23/21 04:38 1 Toluene <0.00200 U 0.00200 0.000367 mg/L 06/23/21 04:38 1 Ethylbenzene <0.00200 U 0.00200 0.000657 mg/L 06/23/21 04:38 1 m-Xylene & p-Xylene <0.00400 U 0.00400 0.000629 mg/L 06/23/21 04:38 1 o-Xylene <0.00200 U 0.00200 0.000642 mg/L 06/23/21 04:38 1 Xylenes, Total <0.00400 U 0.00400 0.000642 mg/L 06/23/21 04:38 Total BTEX <0.00400 U 0.00400 0.000657 mg/L 06/23/21 04:38 1 Limits Surrogate %Recovery Qualifier Prepared Dil Fac Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 06/23/21 04:38 103 1,4-Difluorobenzene (Surr) 149 S1+ 70 - 130 06/23/21 04:38 1

#### **Client Sample ID: MW-16**

Date Collected: 06/18/21 09:40 Date Received: 06/21/21 08:01 Sample Depth: - N/A

Analyte	Result	Qualifier	RL	МП	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200				Topulou	06/23/21 05:04	1
					0				1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/23/21 05:04	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 05:04	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/23/21 05:04	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 05:04	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/23/21 05:04	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/23/21 05:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 _ 130			-		06/23/21 05:04	1
1,4-Difluorobenzene (Surr)	152	S1+	70 - 130					06/23/21 05:04	1

#### Date Collected: 06/18/21 09:10

Date Received: 06/21/21 08:01

Sample Depth: - N/A

Method: 8021B - Volatile Orga		· · · ·							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 05:29	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/23/21 05:29	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 05:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/23/21 05:29	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 05:29	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/23/21 05:29	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/23/21 05:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			-		06/23/21 05:29	1
1,4-Difluorobenzene (Surr)	151	S1+	70 - 130					06/23/21 05:29	1

Matrix: Water

Matrix: Water

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Lab Sample ID: 890-839-7

Lab Sample ID: 890-839-8

Matrix: Water

#### Client: Talon/LPE Project/Site: Kimbrough Sweet 8" (KIM)

#### **Client Sample ID: MW-14**

Date Collected: 06/18/21 11:20 Date Received: 06/21/21 08:01

Sample Depth: - N/A

Method: 8021B - Volatile Organ	nic Compounds (	GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 05:55	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/23/21 05:55	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 05:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/23/21 05:55	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 05:55	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/23/21 05:55	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/23/21 05:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			-		06/23/21 05:55	1
1,4-Difluorobenzene (Surr)	154	S1+	70 - 130					06/23/21 05:55	1

#### **Client Sample ID: MW-15**

Date Collected: 06/18/21 12:15 Date Received: 06/21/21 08:01 Sample Depth: - N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 06:20	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/23/21 06:20	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 06:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/23/21 06:20	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 06:20	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/23/21 06:20	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/23/21 06:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			-		06/23/21 06:20	1
1,4-Difluorobenzene (Surr)	155	S1+	70 - 130					06/23/21 06:20	1
Client Sample ID: MW-18							Lab S	ample ID: 890	-839-9
Date Collected: 06/18/21 10:30									: Water

#### Date Collected: 06/18/21 10:30

Date Received: 06/21/21 08:01

Sample Depth: - N/A

Method: 8021B - Volatile Orga	nic Compounds (	(GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	0.000408	mg/L			06/23/21 09:23	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			06/23/21 09:23	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 09:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/23/21 09:23	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 09:23	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/23/21 09:23	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/23/21 09:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			-		06/23/21 09:23	1
1,4-Difluorobenzene (Surr)	117		70 - 130					06/23/21 09:23	1

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Job ID: 890-839-1

Matrix: Water

Lab Sample ID: 890-839-10

#### Client: Talon/LPE Project/Site: Kimbrough Sweet 8" (KIM)

#### **Client Sample ID: MW-17**

Date Collected: 06/18/21 10:10 Date Received: 06/21/21 08:01

Sample Depth: - N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			06/23/21 09:48	1
Toluene	0.000404	J	0.00200	0.000367	mg/L			06/23/21 09:48	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			06/23/21 09:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			06/23/21 09:48	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			06/23/21 09:48	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			06/23/21 09:48	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			06/23/21 09:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			-		06/23/21 09:48	1
1,4-Difluorobenzene (Surr)	143	S1+	70 - 130					06/23/21 09:48	1

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Released to Imaging: 8/2/2022 2:58:10 PM

Prep Type: Total/NA

Client: Talon/LPE Project/Site: Kimbrough Sweet 8" (KIM)

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

_				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-839-1	MW-8A	112	147 S1+		
890-839-2	MW-7A	103	146 S1+		
890-839-3	MW-19	100	141 S1+		- 5
890-839-4	MW-1A	103	149 S1+		
890-839-5	MW-16	103	152 S1+		
890-839-6	MW-12	104	151 S1+		
890-839-7	MW-14	110	154 S1+		
890-839-8	MW-15	105	155 S1+		
890-839-9	MW-18	113	117		
890-839-10	MW-17	108	143 S1+		
LCS 880-4464/34	Lab Control Sample	96	158 S1+		
LCSD 880-4464/35	Lab Control Sample Dup	95	151 S1+		
MB 880-4464/39	Method Blank	64 S1-	119		
MB 880-4464/8	Method Blank	62 S1-	111		
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				
DFBZ = 1,4-Difluoroben	zene (Surr)				

#### **QC Sample Results**

Client: Talon/LPE Project/Site: Kimbrough Sweet 8" (KIM)

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

Lab Sample ID: MB 880-4464/39 Matrix: Water								Client S	ample ID: Metho Prep Type: 1	
Analysis Batch: 4464										
		MB								
Analyte	Result		RL		Unit		D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L				06/23/21 02:31	1
Toluene	<0.00200		0.00200	0.000367	0				06/23/21 02:31	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L				06/23/21 02:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L				06/23/21 02:31	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L				06/23/21 02:31	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L				06/23/21 02:31	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L				06/23/21 02:31	1
	МВ	МВ								
Surrogate	%Recovery	Qualifier	Limits					Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	64	S1-	70 - 130						06/23/21 02:31	1
1,4-Difluorobenzene (Surr)	119		70 - 130						06/23/21 02:31	1
Lab Sample ID: MB 880-4464/8								Client S	ample ID: Metho	d Blank
Matrix: Water								onent o	Prep Type: 1	
Analysis Batch: 4464									Thep Type.	
Analysis Daten. 4404	МВ	мв								
Analyte		Qualifier	RL	MDL	Unit		D	Prepared	Analyzed	Dil Fac
			RL RL							
										1
Benzene Toluene	<0.00200	U	0.00200	0.000408	mg/L				06/22/21 13:28 06/22/21 13:28	
Benzene Toluene		U U	0.00200		mg/L mg/L				06/22/21 13:28	1
Benzene Toluene Ethylbenzene	<0.00200 <0.00200	U U U	0.00200	0.000408	mg/L mg/L mg/L				06/22/21 13:28 06/22/21 13:28	1 1
Benzene Toluene	<0.00200 <0.00200 <0.00200	U U U U	0.00200 0.00200 0.00200	0.000408 0.000367 0.000657	mg/L mg/L mg/L mg/L				06/22/21 13:28 06/22/21 13:28 06/22/21 13:28	1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200	บ บ บ บ	0.00200 0.00200 0.00200 0.00400	0.000408 0.000367 0.000657 0.000629 0.000642	mg/L mg/L mg/L mg/L mg/L				06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28	1 1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	<0.00200 <0.00200 <0.00200 <0.00400	บ บ บ บ บ	0.00200 0.00200 0.00200 0.00400 0.00400	0.000408 0.000367 0.000657 0.000629	mg/L mg/L mg/L mg/L mg/L	·			06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28	1 1 1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400		0.00200 0.00200 0.00200 0.00400 0.00200 0.00400	0.000408 0.000367 0.000657 0.000629 0.000642 0.000642	mg/L mg/L mg/L mg/L mg/L	·			06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28	1 1 1 1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <i>MB</i>	U U U U U U U MB	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 0.00400	0.000408 0.000367 0.000657 0.000629 0.000642 0.000642	mg/L mg/L mg/L mg/L mg/L				06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28	1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <i>MB</i> %Recovery	U U U U U U MB Qualifier	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 0.00400 Limits	0.000408 0.000367 0.000657 0.000629 0.000642 0.000642	mg/L mg/L mg/L mg/L mg/L			Prepared	06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 Analyzed	1 1 1 1 1 1 1 <b>Dill Fac</b>
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate 4-Bromofluorobenzene (Surr)	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <i>MB</i> %Recovery 62	U U U U U U U MB	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 0.00400 <u>Limits</u> 70 - 130	0.000408 0.000367 0.000657 0.000629 0.000642 0.000642	mg/L mg/L mg/L mg/L mg/L				06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <i>MB</i> %Recovery	U U U U U U MB Qualifier	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 0.00400 Limits	0.000408 0.000367 0.000657 0.000629 0.000642 0.000642	mg/L mg/L mg/L mg/L mg/L				06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 Analyzed	1 1 1 1 1 1 1 <b>Dill Fac</b>
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate 4-Bromofluorobenzene (Surr)	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <i>MB</i> %Recovery 62	U U U U U U MB Qualifier	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 0.00400 <u>Limits</u> 70 - 130	0.000408 0.000367 0.000657 0.000629 0.000642 0.000642	mg/L mg/L mg/L mg/L mg/L	·		Prepared	06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28	1 1 1 1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <i>MB</i> %Recovery 62	U U U U U U MB Qualifier	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 0.00400 <u>Limits</u> 70 - 130	0.000408 0.000367 0.000657 0.000629 0.000642 0.000642	mg/L mg/L mg/L mg/L mg/L			Prepared	06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-4464/34	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <i>MB</i> %Recovery 62	U U U U U U MB Qualifier	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 0.00400 <u>Limits</u> 70 - 130	0.000408 0.000367 0.000657 0.000629 0.000642 0.000642	mg/L mg/L mg/L mg/L mg/L			Prepared	06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 ID: Lab Control	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-4464/34 Matrix: Water	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <i>MB</i> %Recovery 62	U U U U U U MB Qualifier	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 0.00400 <u>Limits</u> 70 - 130	0.000408 0.000367 0.000657 0.000629 0.000642 0.000642	mg/L mg/L mg/L mg/L mg/L mg/L			Prepared	06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 ID: Lab Control	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-4464/34 Matrix: Water	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <i>MB</i> %Recovery 62	U U U U U U MB Qualifier	0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 0.00400 <u>Limits</u> 70 - 130 70 - 130	0.000408 0.000367 0.000657 0.000629 0.000642 0.000642 0.000657	mg/L mg/L mg/L mg/L mg/L mg/L	Unit		Prepared nt Sample	06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 1D: Lab Control Prep Type: 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-4464/34 Matrix: Water Analysis Batch: 4464	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <i>MB</i> %Recovery 62	U U U U U U MB Qualifier	0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 0.00400 <u>Limits</u> 70 - 130 70 - 130 70 - 130	0.000408 0.000367 0.000657 0.000629 0.000642 0.000642 0.000657	mg/L mg/L mg/L mg/L mg/L mg/L		Clier	Prepared nt Sample	06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 1D: Lab Control Prep Type: T %Rec.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Total BTEX Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: LCS 880-4464/34 Matrix: Water Analysis Batch: 4464 Analyte	<0.00200 <0.00200 <0.00200 <0.00400 <0.00200 <0.00400 <0.00400 <i>MB</i> %Recovery 62	U U U U U U MB Qualifier	0.00200 0.00200 0.00200 0.00400 0.00400 0.00400 0.00400 <u>Limits</u> 70 - 130 70 - 130 70 - 130	0.000408 0.000367 0.000657 0.000629 0.000642 0.000657 0.000657	mg/L mg/L mg/L mg/L mg/L mg/L	Unit	Clier	Prepared nt Sample %Rec	06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 06/22/21 13:28 ID: Lab Control Prep Type: T %Rec. Limits	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	158	S1+	70 - 130

110

110

70 - 130

70 - 130

m-Xylene & p-Xylene

o-Xylene

0.200

0.100

0.2195

0.1098

mg/L

mg/L

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#### QC Sample Results

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7

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

Lab Sample ID: LCSD 880-4464/35 Matrix: Water Analysis Batch: 4464			Clie	ent San	ple ID:	Lab Contro Prep 1	ol Sampl Type: To		
	Spike	LCSD LCSD				%Rec.		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	i.
Benzene	0.100	0.1204	mg/L		120	70 - 130	1	20	
Toluene	0.100	0.1234	mg/L		123	70 - 130	6	20	2
Ethylbenzene	0.100	0.1061	mg/L		106	70 - 130	0	20	
m-Xylene & p-Xylene	0.200	0.2185	mg/L		109	70 - 130	0	20	
o-Xylene	0.100	0.1094	mg/L		109	70 - 130	0	20	

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	151	S1+	70 - 130

Eurofins Xenco, Carlsbad

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#### **QC** Association Summary

Client: Talon/LPE Project/Site: Kimbrough Sweet 8" (KIM) Job ID: 890-839-1

#### **GC VOA**

#### Analysis Batch: 4464

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-839-1	MW-8A	Total/NA	Water	8021B	
890-839-2	MW-7A	Total/NA	Water	8021B	
890-839-3	MW-19	Total/NA	Water	8021B	
890-839-4	MW-1A	Total/NA	Water	8021B	
890-839-5	MW-16	Total/NA	Water	8021B	
890-839-6	MW-12	Total/NA	Water	8021B	
890-839-7	MW-14	Total/NA	Water	8021B	
390-839-8	MW-15	Total/NA	Water	8021B	
390-839-9	MW-18	Total/NA	Water	8021B	
390-839-10	MW-17	Total/NA	Water	8021B	
MB 880-4464/39	Method Blank	Total/NA	Water	8021B	
VIB 880-4464/8	Method Blank	Total/NA	Water	8021B	
_CS 880-4464/34	Lab Control Sample	Total/NA	Water	8021B	
_CSD 880-4464/35	Lab Control Sample Dup	Total/NA	Water	8021B	

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Lab Chronicle

Job ID: 890-839-1

Client: Talon/LPE Project/Site: Kimbrough Sweet 8" (KIM)

Client Sample ID: MW-8/	4
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Lab	Sample	ID:	890-839-1
		N	latrix: Water

#### Date Collected: 06/18/21 08:30 Date Received: 06/21/21 08:01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4464	06/23/21 03:22	MR	XEN MID
Client Samp	le ID: MW-7A	<b>\</b>						Lab Sar	nple ID:	890-839-
Date Collected	: 06/18/21 09:30	)							N	latrix: Wat
Date Received:	06/21/21 08:01									
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4464	06/23/21 03:48	MR	XEN MID
Client Samp	le ID: MW-19							Lab Sar	nple ID:	890-839-
Date Collected	: 06/18/21 10:30	)							N	latrix: Wat
Date Received:	06/21/21 08:01									
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4464	06/23/21 04:13	MR	XEN MID
Client Samp	le ID: MW-1A							Lab Sar	nple ID:	890-839-
	: 06/18/21 10:00								-	latrix: Wat
Date Received:	06/21/21 08:01									
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis			1	5 mL	5 mL	4464	06/23/21 04:38	MR	- XEN MID
_	-									
	- ID. MANAL 4.0									000 000
	le ID: MW-16							Lab Sar	- C	
Date Collected	: 06/18/21 09:40	)						Lab Sar	- C	
Client Samp Date Collected: Date Received: –	: 06/18/21 09:40	)						Lab Sar	- C	
Date Collected	: 06/18/21 09:40	)		Dil	Initial	Final	Batch	Lab Sar	- C	
Date Collected Date Received: Prep Type	: 06/18/21 09:40 06/21/21 08:01 Batch Type	Batch Method	Run	Factor	Amount	Amount	Number	Prepared or Analyzed	Analyst	latrix: Wate
Date Collected Date Received:	: 06/18/21 09:40 06/21/21 08:01 Batch	) Batch	Run					Prepared	. N	latrix: Wate
Date Collected Date Received: Prep Type Total/NA	: 06/18/21 09:40 06/21/21 08:01 Batch Type Analysis	) Batch Method 8021B	Run	Factor	Amount	Amount	Number	Prepared or Analyzed 06/23/21 05:04	Analyst MR	latrix: Wate
Date Collected: Date Received: Prep Type Total/NA Client Samp	: 06/18/21 09:40 06/21/21 08:01 Batch Type Analysis	Batch Method 8021B	Run	Factor	Amount	Amount	Number	Prepared or Analyzed 06/23/21 05:04	Analyst MR mple ID:	Lab           XEN MID           890-839-
Prep Type Total/NA Client Samp Date Collected	: 06/18/21 09:40 06/21/21 08:01 Batch Type Analysis le ID: MW-12 : 06/18/21 09:10	) Batch Method 8021B	Run	Factor	Amount	Amount	Number	Prepared or Analyzed 06/23/21 05:04	Analyst MR mple ID:	Lab           XEN MID           890-839-
Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected	: 06/18/21 09:40 06/21/21 08:01 Batch Type Analysis le ID: MW-12 : 06/18/21 09:10	) Batch Method 8021B	<u>Run</u>	Factor	Amount	Amount	Number	Prepared or Analyzed 06/23/21 05:04	Analyst MR mple ID:	Lab           XEN MID           890-839-
Date Collected Date Received: Prep Type Total/NA Client Samp Date Collected	: 06/18/21 09:40 06/21/21 08:01 Batch Type Analysis le ID: MW-12 : 06/18/21 09:10 06/21/21 08:01	) Batch Method 8021B	Run	Factor 1	Amount 5 mL	Amount 5 mL	- <u>Number</u> 4464	Prepared or Analyzed 06/23/21 05:04 Lab Sar	Analyst MR mple ID:	Lab           XEN MID           890-839-
Date Collected: Date Received: Prep Type Total/NA Client Samp Date Collected: Date Received:	: 06/18/21 09:40 06/21/21 08:01 Batch Type Analysis le ID: MW-12 : 06/18/21 09:10 06/21/21 08:01 Batch	Batch Method 8021B Batch		Factor 1	Amount 5 mL	Amount 5 mL	Aumber 4464 Batch	Prepared or Analyzed 06/23/21 05:04 Lab Sar	Analyst MR mple ID:	latrix: Wate  XEN MID 890-839- latrix: Wate
Date Collected: Date Received: Prep Type Total/NA Client Samp Date Collected: Date Received: Prep Type Total/NA	: 06/18/21 09:40 06/21/21 08:01 Batch Type Analysis le ID: MW-12 : 06/18/21 09:10 06/21/21 08:01 Batch Type Analysis	Batch       Method       8021B       Batch       Batch       Method       8021B		Factor 1 Dil Factor	Amount 5 mL Initial Amount	Amount 5 mL Final Amount	Batch	Prepared           or Analyzed           06/23/21 05:04           Lab Sar           Prepared           or Analyzed           06/23/21 05:29	Analyst MR mple ID: N Analyst MR	Lab XEN MID 890-839- Matrix: Wate
Date Collected: Date Received: Prep Type Total/NA Client Samp Date Collected: Date Received: Prep Type Total/NA Client Samp	: 06/18/21 09:40 06/21/21 08:01 Batch Type Analysis Ie ID: MW-12 : 06/18/21 09:10 06/21/21 08:01 Batch Type Analysis	Batch Method 8021B Batch Batch Method 8021B		Factor 1 Dil Factor	Amount 5 mL Initial Amount	Amount 5 mL Final Amount	Batch	Prepared           or Analyzed           06/23/21 05:04           Lab Sar           Prepared           or Analyzed           06/23/21 05:29	Analyst MR mple ID: MR MR mple ID:	Lab           XEN MID           890-839-           Matrix: Wate           Lab           XEN MID           890-839-           890-839-
Date Collected: Date Received: Total/NA Client Samp Date Collected: Date Received: Total/NA Prep Type Total/NA Client Samp Date Collected:	: 06/18/21 09:40 06/21/21 08:01 Batch Type Analysis Ie ID: MW-12 : 06/18/21 09:10 06/21/21 08:01 Batch Type Analysis Ie ID: MW-14 : 06/18/21 11:20	) Batch Method 8021B Batch Batch 8021B		Factor 1 Dil Factor	Amount 5 mL Initial Amount	Amount 5 mL Final Amount	Batch	Prepared           or Analyzed           06/23/21 05:04           Lab Sar           Prepared           or Analyzed           06/23/21 05:29	Analyst MR mple ID: MR MR mple ID:	Lab XEN MID 890-839- Natrix: Wate Lab XEN MID 890-839-
Date Collected: Date Received: Total/NA Client Samp Date Collected: Date Received: Prep Type Total/NA Client Samp Date Collected:	: 06/18/21 09:40 06/21/21 08:01 Batch Type Analysis Ie ID: MW-12 : 06/18/21 09:10 06/21/21 08:01 Batch Type Analysis Ie ID: MW-14 : 06/18/21 11:20 06/21/21 08:01	) Batch Method 8021B Batch Batch 8021B		Factor 1 Dil Factor 1	Amount 5 mL Initial Amount 5 mL	Amount 5 mL Final Amount 5 mL	Batch A464	Prepared or Analyzed 06/23/21 05:04 Lab Sar Prepared or Analyzed 06/23/21 05:29 Lab Sar	Analyst MR mple ID: MR MR mple ID:	Lab           XEN MID           890-839-           Matrix: Wate           Lab           XEN MID           890-839-           890-839-
Prep Type Total/NA Client Samp Date Collected: Date Received: Prep Type	: 06/18/21 09:40 06/21/21 08:01 Batch Type Analysis Ie ID: MW-12 : 06/18/21 09:10 06/21/21 08:01 Batch Type Analysis Ie ID: MW-14 : 06/18/21 11:20	) Batch Method 8021B Batch Batch 8021B		Factor 1 Dil Factor	Amount 5 mL Initial Amount	Amount 5 mL Final Amount	Batch	Prepared           or Analyzed           06/23/21 05:04           Lab Sar           Prepared           or Analyzed           06/23/21 05:29	Analyst MR mple ID: MR MR mple ID:	XEN MID 890-839- latrix: Wate

#### Lab Chronicle

Job ID: 890-839-1

Matrix: Water

Lab Sample ID: 890-839-8

Client: Talon/LPE Project/Site: Kimbrough Sweet 8" (KIM)

#### Client Sample ID: MW-15

Date Collected: 06/18/21 12:15 Date Received: 06/21/21 08:01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4464	06/23/21 06:20	MR	XEN MID
Client Sampl	e ID: MW-18							Lab Sar	nple ID	890-839-
Date Collected:	06/18/21 10:30	)							I	Matrix: Wate
Date Received:	06/21/21 08:01									
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	4464	06/23/21 09:23	MR	XEN MID
Client Sample	e ID: MW-17	1						Lab Sam	ple ID:	890-839-1
Date Collected:										Matrix: Wate
Date Received:	06/21/21 08:01									
_	Batch	Batch		Dil	Initial	Final	Batch	Bronarod		
			Dum					Prepared	Analyst	Lab
			Run	Factor						– Lab XEN MID
Prep Type Total/NA	<b>Type</b> Analysis	_ Method 8021B	Run	Factor	Amount 5 mL	Amount 5 mL	_ <u>Number</u> 4464	or Analyzed 06/23/21 09:48	Analyst MR	

Laboratory References:

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

Accreditation/Certification Summary

	,		or anotation outlining		
Client: Talon/LPE				Job ID: 890-839-1	
Project/Site: Kimbroug	h Sweet 8" (KIM)				
Laboratory: Eurof	ins Xenco, Midland	l			
Unless otherwise noted, all a	analytes for this laboratory we	re covered under each acc	reditation/certification below.		
Authority	Pr	ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-20-21	06-30-21	5
The following analytes	are included in this report, bu	It the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not of					
Analysis Method	Prep Method	Matrix	Analyte		
8021B		Water	Total BTEX		
					8
					9
					10
					4.4
					40
					13

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#### **Method Summary**

Client: Talon/LPE Project/Site: Kimbrough Sweet 8" (KIM)

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

#### Protocol References:

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

#### Laboratory References:

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

Eurofins Xenco, Carlsbad

#### **Sample Summary**

Collected

06/18/21 08:30

06/18/21 09:30

06/18/21 10:30

06/18/21 10:00

06/18/21 09:40

06/18/21 09:10

06/18/21 11:20

06/18/21 12:15

06/18/21 10:30

06/18/21 10:10

Received

06/21/21 08:01

06/21/21 08:01

06/21/21 08:01

06/21/21 08:01

06/21/21 08:01

06/21/21 08:01

06/21/21 08:01

06/21/21 08:01

06/21/21 08:01

06/21/21 08:01

Depth

- N/A

Matrix

Water

Client: Talon/LPE Project/Site: Kimbrough Sweet 8" (KIM)

MW-8A

MW-7A

MW-19

MW-1A

MW-16

MW-12

MW-14

MW-15

MW-18

MW-17

**Client Sample ID** 

Lab Sample ID

890-839-1

890-839-2

890-839-3

890-839-4

890-839-5

890-839-6

890-839-7

890-839-8

890-839-9

890-839-10

·1	
	5
	8
	9
	12
	13

5
8
9
13

Received by	OCD:	3/22/2022	2 12:39:08 PM
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5	Bono la	Relinquished by: (Signature)	Notice: Signature of this docu of service. Eurofins Xenco wi of Eurofins Xenco. A minimur	Circle Method(s) and I	Total 200.7 / 6010	MW-IN	81-MW	MW-16	MM-14	M111-12	MW-16	MW-1A	p1-19	MW-JA	MW-8A	Sample Identification	Total Containers:	Sample Custody Seals:	Cooler Custody Seals:	Samples Received Intact:	SAMPLE RECEIPT				ΒĽ	Name:		e ZIP:			Project Manager:			6	eurofins
	e) / 4. (1	signature) / Receive	ment and relinquishment of samples con II be liable only for the cost of samples ar n charge of \$85.00 will be applied to each	alyzed	200.8 / 6020: 8F										GW 6/8/21	cation Matrix Date	Corrected T	Yes No WA Temperature Reading:	Yes NO INTA		_	2000-1075	4	Hobbs . NM		Kimbrough Sweet 8"(Kan)	575-441-4835	Artesia NM 88210	10,		David Adkins		Xenco	Environment Testing	-
	61	Received by: (Signature)	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 service. Eurofins Xenco, but not analyzed. These terms 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.	-/ SPLP 8010. BRC	8RCRA 13PPM Texas 11 Al	1010	10:30	12:15 /	11:20 / /	9:10	1 1 ah: b.	10:00	10:30 /	9:30 / 1 1/	8:30 1/4 3	Time Depth Grab/ # of Sampled Comp Cont	Corrected Temperature: 4, @	10	-6.2	T-NM-007	Wet Ice: Kes No	the lab, if received by 4:30pm	TAT starts the day received by	Due Date:	Routine Rush Code	Turn Around	Email: dadkins @	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	Hobbs, NN	EL Paso, T		
6	11/21 / 8. 6 1/2	Date/Time Relinqui	t company to Eurofins Xenco, its affiliate r any losses or expenses incurred by the ple submitted to Eurofins Xenco, but no	TOLP/SPLP 5010. BRCRA SD AS Ba Be Cd Cr Co Cu Pb Mn Mo	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb										X	BI	Ē.	X	80			_					2 talon be com	SKS # 2000 - 1075	Attn: Camille Br	Pipe line	Plains All Am	Hobbs, NM (575) 392-7550, Carisbad, NM (575) 900-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
		Relinquished by: (Signature) F	is and subcontractors. It assigns standa client if such losses are due to circumst analyzed. These terms will be enforced	III I															890-839 Chain of Custody							ANALYSIS REQUEST	Deliverables: EDD	7	yant	Program: US	American	988-3199	794-1296	) 509-3334	102-0300
Rev		Received by: (Signature)	It assigns standard terms and conditions e due to circumstances beyond the control will be enforced unless previously negotiated.	TI U Hg: 1631 / 245.1 / 7470 / 7471	Mg Mn Mo Ni K Se Ag SiO, Na Sr Th						Marochea	Allarovesa	at valicity	10	Email	Sam	NaOntras		Na2S203: NaSO3	NaHSO4: NABIS	H <sub>3</sub> PO <sub>4</sub> ; HP	H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	HCL: HC	Cool: Cool	None: NO	Prese	ADaPT L			Program: UST/PST 🗌 PRP Brownfields 🗍 RRC 🗌	Work Order Comments	www.xenco.com Page		Work Order No:	
Revised Date: 08/25/2020 Rev 2020 2		Date/Time		70 / 7471	Sn U V Zn						a prapicon	(a poor o. com	youn The pool p. con		Analyticals	Sample Comments		ZE ACELALETINACEL ZE	aSO <sub>3</sub>	ABIS		NaOH: Na	HNO3: HN	MeOH: Me	DI Water: H <sub>2</sub> O	Preservative Codes	Other:			RC Superfund		2 4 4			

# Chain of Custody

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14

Job Number: 890-839-1 SDG Number:

List Source: Eurofins Xenco, Carlsbad

#### Login Sample Receipt Checklist

Client: Talon/LPE

Login Number: 839 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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

#### Login Sample Receipt Checklist

Client: Talon/LPE

Login Number: 839 List Number: 2 Creator: Copeland, Tatiana

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-839-1 SDG Number:

List Source: Eurofins Xenco, Midland List Creation: 06/22/21 12:00 PM Received by OCD: 3/22/2022 12:39:08 PM

## eurofins

## Environment Testing America

## **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 890-1275-1

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

#### For:

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

Attn: David Adkins

Holly Taylor

Authorized for release by: 9/24/2021 5:27:40 PM Holly Taylor, Project Manager holly.taylor@eurofinset.com

Designee for

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

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

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

..... LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert Visit us at:

www.eurofinsus.com/Env Released to Imaging: 8/2/2022 2:58:10 PM
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# Definitions/Glossary

Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough) Page 110 of 154

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# Qualifiers

GC VOA Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	-
S1-	Surrogate recovery exceeds control limits, low biased.	5
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary	,	

Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	c
%R	Percent Recovery	C
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 Sweet (Kimbrough)

## Job ID: 890-1275-1

#### Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1275-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 9/17/2021 1:17 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.2° C.

#### GC VOA

Method 8021B: 1,4-Difluorobenzene Surrogate recovery for the following samples were outside control limits: MW-1A (890-1275-1), MW-2A (890-1275-2), MW-7A (890-1275-3), MW-8A (890-1275-4), MW-12 (890-1275-5), MW-14 (890-1275-6) and MW-15 (890-1275-7). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-8335/39). Evidence of matrix interferences is not obvious.

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

#### VOA Prep

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

Job ID: 890-1275-1 SDG: Lea County NM

Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough)

#### **Client Sample ID: MW-1A** Date Collected: 09/16/21 13:30 Date Received: 09/17/21 13:17 Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/21/21 03:02	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 03:02	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 03:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/21/21 03:02	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/21/21 03:02	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/21/21 03:02	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/21/21 03:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			-		09/21/21 03:02	1
1,4-Difluorobenzene (Surr)	220	S1+	70 - 130					09/21/21 03:02	1

#### **Client Sample ID: MW-2A** Date Collected: 09/16/21 13:30

Date Received: 09/17/21 13:17 Sample Depth: N/A

Method: 8021B - Volatile O	rganic Compoui	nds (GC)							
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.344		0.00200	0.000408	mg/L			09/21/21 03:28	1
Toluene	0.0122		0.00200	0.000367	mg/L			09/21/21 03:28	1
Ethylbenzene	0.0824		0.00200	0.000657	mg/L			09/21/21 03:28	1
m-Xylene & p-Xylene	0.139		0.00400	0.000629	mg/L			09/21/21 03:28	1
o-Xylene	0.0507		0.00200	0.000642	mg/L			09/21/21 03:28	1
Xylenes, Total	0.190		0.00400	0.000642	mg/L			09/21/21 03:28	1
Total BTEX	0.628		0.00400	0.000657	mg/L			09/21/21 03:28	1
Surrogate	%Recovery (	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130					09/21/21 03:28	1

70 - 130

292 S1+

# 1,4-Difluorobenzene (Surr) **Client Sample ID: MW-7A**

Date Collected: 09/16/21 12:25 Date Received: 09/17/21 13:17

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/21/21 03:54	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 03:54	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 03:54	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/21/21 03:54	1
o-Xylene	0.00112	J	0.00200	0.000642	mg/L			09/21/21 03:54	1
Xylenes, Total	0.00112	J	0.00400	0.000642	mg/L			09/21/21 03:54	1
Total BTEX	0.00112	J	0.00400	0.000657	mg/L			09/21/21 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130					09/21/21 03:54	1
1,4-Difluorobenzene (Surr)	266	S1+	70 - 130					09/21/21 03:54	1

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Job ID: 890-1275-1 SDG: Lea County NM

# Lab Sample ID: 890-1275-1

Lab Sample ID: 890-1275-2

09/21/21 03:28

Lab Sample ID: 890-1275-3

**Matrix: Water** 

1

**Matrix: Water** 

**Matrix: Water** 

Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough)

#### **Client Sample ID: MW-8A** Date Collected: 09/16/21 11:30 Date Received: 09/17/21 13:17

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000542	J	0.00200	0.000408	mg/L			09/21/21 04:20	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 04:20	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 04:20	1
m-Xylene & p-Xylene	0.00359	J	0.00400	0.000629	mg/L			09/21/21 04:20	1
o-Xylene	0.00113	J	0.00200	0.000642	mg/L			09/21/21 04:20	1
Xylenes, Total	0.00472		0.00400	0.000642	mg/L			09/21/21 04:20	1
Total BTEX	0.00526		0.00400	0.000657	mg/L			09/21/21 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130					09/21/21 04:20	1
1,4-Difluorobenzene (Surr)	276	S1+	70 - 130					09/21/21 04:20	1
Client Sample ID: MW-12	-	317	70 - 130				Lab Sam		

#### Client Sample ID: MW-12 Date Collected: 09/17/21 08:30 Date Received: 09/17/21 13:17 Sample Depth: N/A

Method: 8021B - Volatile O	rganic Compo	unds (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/21/21 04:45	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 04:45	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 04:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/21/21 04:45	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/21/21 04:45	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/21/21 04:45	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/21/21 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			-		09/21/21 04:45	1
1,4-Difluorobenzene (Surr)	287	S1+	70 - 130					09/21/21 04:45	1

# **Client Sample ID: MW-14** Date Collected: 09/16/21 12:05 Date Received: 09/17/21 13:17

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/21/21 05:11	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 05:11	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 05:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/21/21 05:11	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/21/21 05:11	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/21/21 05:11	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/21/21 05:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130					09/21/21 05:11	1
1,4-Difluorobenzene (Surr)	273	S1+	70 - 130					09/21/21 05:11	1

# Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1275-6

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Job ID: 890-1275-1 SDG: Lea County NM

# Lab Sample ID: 890-1275-4

**Matrix: Water** 

Matrix: Water

Matrix: Water

Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough)

#### Client Sample ID: MW-15 Date Collected: 09/16/21 12:45 Date Received: 09/17/21 13:17 Sample Depth: N/A

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	0.000408	mg/L			09/21/21 05:37	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/21/21 05:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/21/21 05:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/21/21 05:37	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/21/21 05:37	1
Xylenes, Total	< 0.00400	U	0.00400	0.000642	mg/L			09/21/21 05:37	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/21/21 05:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			-		09/21/21 05:37	1
1,4-Difluorobenzene (Surr)	275	S1+	70 - 130					09/21/21 05:37	1

## Client Sample ID: MW-16 Date Collected: 09/17/21 09:00 Date Received: 09/17/21 13:17

Sample Depth: N/A

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/24/21 12:37	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/24/21 12:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/24/21 12:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/24/21 12:37	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/24/21 12:37	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/24/21 12:37	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/24/21 12:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130					09/24/21 12:37	1
1,4-Difluorobenzene (Surr)	99		70 - 130					09/24/21 12:37	1

# Client Sample ID: MW-17 Date Collected: 09/17/21 07:25 Date Received: 09/17/21 13:17

Sample Depth: N/A

rganic Compo	unds (GC)							
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	0.000408	mg/L			09/24/21 13:03	1
<0.00200	U	0.00200	0.000367	mg/L			09/24/21 13:03	1
0.000972	J	0.00200	0.000657	mg/L			09/24/21 13:03	1
<0.00400	U	0.00400	0.000629	mg/L			09/24/21 13:03	1
<0.00200	U	0.00200	0.000642	mg/L			09/24/21 13:03	1
<0.00400	U	0.00400	0.000642	mg/L			09/24/21 13:03	1
0.000972	J	0.00400	0.000657	mg/L			09/24/21 13:03	1
%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
86		70 - 130			-		09/24/21 13:03	1
94		70 - 130					09/24/21 13:03	1
	Result           <0.00200	Result         Qualifier           <0.00200	<0.00200	Result         Qualifier         RL         MDL           <0.00200	Result         Qualifier         RL         MDL         Unit           <0.00200	Result         Qualifier         RL         MDL         Unit         D           <0.00200	Result         Qualifier         RL         MDL         Unit         D         Prepared           <0.00200	Result         Qualifier         RL         MDL         Unit         D         Prepared         Analyzed           <0.00200

Job ID: 890-1275-1 SDG: Lea County NM

# Lab Sample ID: 890-1275-7

Lab Sample ID: 890-1275-8

Lab Sample ID: 890-1275-9

Matrix: Water

Matrix: Water

Matrix: Water

#### **Client Sample ID: MW-18** Date Collected: 09/17/21 08:05 Date Received: 09/17/21 13:17 Sample Depth: N/A

**Client Sample ID: MW-19A** 

Date Collected: 09/17/21 09:15

Date Received: 09/17/21 13:17

5.17		

Method: 8021B - Volatile Organic Compounds (GC)												
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac			
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/24/21 13:30	1			
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/24/21 13:30	1			
Ethylbenzene	0.00127	J	0.00200	0.000657	mg/L			09/24/21 13:30	1			
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/24/21 13:30	1			
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/24/21 13:30	1			
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/24/21 13:30	1			
Total BTEX	0.00127	J	0.00400	0.000657	mg/L			09/24/21 13:30	1			
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	100		70 - 130			-		09/24/21 13:30	1			
1,4-Difluorobenzene (Surr)	102		70 - 130					09/24/21 13:30	1			

# Lab Sample ID: 890-1275-11

**Matrix: Water** 

Sample Depth: N/A									
Method: 8021B - Volatile Analyte	•	u <mark>nds (GC)</mark> Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200		0.00200	0.000408				09/24/21 13:57	
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/24/21 13:57	
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/24/21 13:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/24/21 13:57	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/24/21 13:57	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/24/21 13:57	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/24/21 13:57	1
Surrogate	%Recoverv	Qualifier	Limits				Prepared	Analvzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		09/24/21 13:57	1
1,4-Difluorobenzene (Surr)	100		70 - 130		09/24/21 13:57	1

5

**Matrix: Water** 

Job ID: 890-1275-1

SDG: Lea County NM

# **Surrogate Summary**

Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough)

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

			Per
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1264-A-1 MS	Matrix Spike	95	96
890-1264-A-1 MSD	Matrix Spike Duplicate	95	100
890-1275-1	MW-1A	101	220 S1+
890-1275-2	MW-2A	115	292 S1+
890-1275-3	MW-7A	106	266 S1+
890-1275-4	MW-8A	99	276 S1+
890-1275-5	MW-12	107	287 S1+
890-1275-6	MW-14	100	273 S1+
890-1275-7	MW-15	107	275 S1+
890-1275-8	MW-16	111	99
890-1275-8 MS	MW-16	100	106
890-1275-8 MSD	MW-16	104	110
890-1275-9	MW-17	86	94
890-1275-10	MW-18	100	102
890-1275-11	MW-19A	104	100
LCS 880-8153/3	Lab Control Sample	118	108
LCS 880-8335/34	Lab Control Sample	88	108
LCSD 880-8153/4	Lab Control Sample Dup	112	106
LCSD 880-8335/35	Lab Control Sample Dup	99	109
MB 880-8153/8	Method Blank	79	95
MB 880-8335/39	Method Blank	65 S1-	89
MB 880-8335/8	Method Blank	64 S1-	91

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Job ID: 890-1275-1 SDG: Lea County NM

Prep Type: Total/NA

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Lab Sample ID: MB 880-8153/8

**Matrix: Water** 

# **QC Sample Results**

Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough)

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

Analysis Batch: 8153	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L		-	09/20/21 19:37	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/20/21 19:37	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/20/21 19:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/20/21 19:37	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/20/21 19:37	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/20/21 19:37	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/20/21 19:37	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		70 - 130					09/20/21 19:37	1
1,4-Difluorobenzene (Surr)	95		70 - 130					09/20/21 19:37	1

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

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09903		mg/L		99	70 - 130	
Toluene	0.100	0.09893		mg/L		99	70 - 130	
Ethylbenzene	0.100	0.1024		mg/L		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2291		mg/L		115	70 - 130	
o-Xylene	0.100	0.1101		mg/L		110	70 - 130	

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

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

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09618		mg/L		96	70 - 130	3	20
Toluene	0.100	0.1038		mg/L		104	70 - 130	5	20
Ethylbenzene	0.100	0.09945		mg/L		99	70 - 130	3	20
m-Xylene & p-Xylene	0.200	0.2232		mg/L		112	70 - 130	3	20
o-Xylene	0.100	0.1086		mg/L		109	70 - 130	1	20

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

# Lab Sample ID: 890-1264-A-1 MS Matrix: Water

Analysis Batch: 8153										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.00215		0.100	0.07993		mg/L		78	70 - 130	

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Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

# Job ID: 890-1275-1 SDG: Lea County NM

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

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

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

# **QC Sample Results**

Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough)

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

#### Lab Sample ID: 890-1264-A-1 MS Matrix: Water

#### Analysis Batch: 8153

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

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

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

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.00215		0.100	0.08408		mg/L		82	70 - 130	5	25	÷
Toluene	<0.00200	U	0.100	0.09524		mg/L		95	70 - 130	7	25	
Ethylbenzene	<0.00200	U	0.100	0.09015		mg/L		90	70 - 130	6	25	1
m-Xylene & p-Xylene	0.000702	J	0.200	0.2024		mg/L		101	70 - 130	6	25	
o-Xylene	<0.00200	U	0.100	0.09814		mg/L		98	70 - 130	6	25	

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

MB MB

#### Lab Sample ID: MB 880-8335/39 Matrix: Water Analysis Batch: 8335

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

**Client Sample ID: Matrix Spike Duplicate** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			09/24/21 12:10	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			09/24/21 12:10	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			09/24/21 12:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			09/24/21 12:10	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			09/24/21 12:10	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			09/24/21 12:10	1
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			09/24/21 12:10	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130			-		09/24/21 12:10	1
1,4-Difluorobenzene (Surr)	89		70 - 130					09/24/21 12:10	1

#### Lab Sample ID: MB 880-8335/8 Matrix: Water

#### **Analysis Batch: 8335** MB MB Analyte **Result Qualifier** RL MDL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 0.000408 mg/L 09/23/21 22:15 1 Toluene <0.00200 U 0.00200 0.000367 mg/L 09/23/21 22:15 1

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Prep Type: Total/NA

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

Lab Sample ID: MB 880-8335/8

**Matrix: Water** 

Analyte

o-Xylene

Ethylbenzene

Xylenes, Total

Total BTEX

Surrogate

m-Xylene & p-Xylene

**Analysis Batch: 8335** 

4-Bromofluorobenzene (Surr)

# **QC Sample Results**

RL

0.00200

0.00400

0.00200

0.00400

0.00400

Limits

70 - 130

70 - 130

MDL Unit

0.000657 mg/L

0.000629 mg/L

0.000642 mg/L

0.000642 mg/L

0.000657 mg/L

D

Prepared

Prepared

Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough)

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

MB MB

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

<0.00400 U

MB MB %Recovery Qualifier

64 S1-

91

**Result Qualifier** 

Dil Fac

1

1

1

1

1

1

1

Dil Fac

# 7 8 9 10 11

1,4-Difluorobenzene (Surr)

#### Lab Sample ID: LCS 880-8335/34 Matrix: Water Analysis Batch: 8335

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08916		mg/L		89	70 - 130	
Toluene	0.100	0.08386		mg/L		84	70 - 130	
Ethylbenzene	0.100	0.08098		mg/L		81	70 - 130	
m-Xylene & p-Xylene	0.200	0.1736		mg/L		87	70 - 130	
o-Xylene	0.100	0.08933		mg/L		89	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

	Spike	LCSD LCS	D			%Rec.		RPD
Analyte	Added	Result Qua	lifier Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09214	mg/L		92	70 - 130	3	20
Toluene	0.100	0.1014	mg/L		101	70 - 130	19	20
Ethylbenzene	0.100	0.09834	mg/L		98	70 - 130	19	20
m-Xylene & p-Xylene	0.200	0.2121	mg/L		106	70 - 130	20	20
o-Xylene	0.100	0.1087	mg/L		109	70 - 130	20	20

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

#### Lab Sample ID: 890-1275-8 MS Matrix: Water

#### Analysis Batch: 8335

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.100	0.09409		mg/L		94	70 - 130	
Toluene	<0.00200	U	0.100	0.1030		mg/L		103	70 - 130	
Ethylbenzene	<0.00200	U	0.100	0.09746		mg/L		97	70 - 130	

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**Client Sample ID: MW-16** 

Prep Type: Total/NA

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

Analyzed

09/23/21 22:15

09/23/21 22:15

09/23/21 22:15

09/23/21 22:15

09/23/21 22:15

Analyzed

09/23/21 22:15

09/23/21 22:15

Prep Type: Total/NA

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample Dup** 

Lab Sample ID: LCSD 880-8335/35 Matrix: Water Analysis Batch: 8335 Spike

# **QC Sample Results**

Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough)

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

Lab Sample ID: 890-1275-8 Matrix: Water Analysis Batch: 8335	8 MS							Clie	ent Sampl Prep Ty		
-	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
m-Xylene & p-Xylene	<0.00400	U	0.200	0.2099		mg/L		105	70 - 130		
o-Xylene	<0.00200	U	0.100	0.1071		mg/L		107	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	100		70 - 130								
1,4-Difluorobenzene (Surr)	106		70 - 130								
Lab Sample ID: 890-1275-8 Matrix: Water Analysis Batch: 8335	8 MSD							Clie	ent Sampl Prep Ty		
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.09441		mg/L		94	70 - 130	0	25
Toluene	<0.00200	U	0.100	0.1045		mg/L		105	70 - 130	1	25

0.09964

0.2147

0.1099

mg/L

mg/L

mg/L

100

107

110

70 - 130

70 - 130

70 - 130

2

2

3

25

25

25

Ethylbenzene	<0.00200	U	0.100
m-Xylene & p-Xylene	<0.00400	U	0.200
o-Xylene	<0.00200	U	0.100
	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130

1,4-Difluorobenzene (Surr) 110 70 - 130

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Released to Imaging: 8/2/2022 2:58:10 PM

# **QC Association Summary**

Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough)

# Job ID: 890-1275-1 SDG: Lea County NM

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8	3	3	
Ş	9		

Analysis Batch: 8153

GC VOA

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1275-1	MW-1A	Total/NA	Water	8021B	
890-1275-2	MW-2A	Total/NA	Water	8021B	
890-1275-3	MW-7A	Total/NA	Water	8021B	
890-1275-4	MW-8A	Total/NA	Water	8021B	
890-1275-5	MW-12	Total/NA	Water	8021B	
890-1275-6	MW-14	Total/NA	Water	8021B	
890-1275-7	MW-15	Total/NA	Water	8021B	
MB 880-8153/8	Method Blank	Total/NA	Water	8021B	
LCS 880-8153/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-8153/4	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1264-A-1 MS	Matrix Spike	Total/NA	Water	8021B	
890-1264-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8021B	
nalysis Batch: 833	5				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1275-8	MW-16	Total/NA	Water	8021B	

890-1275-8	MW-16	Total/NA	Water	8021B	
890-1275-9	MW-17	Total/NA	Water	8021B	
890-1275-10	MW-18	Total/NA	Water	8021B	
890-1275-11	MW-19A	Total/NA	Water	8021B	
MB 880-8335/39	Method Blank	Total/NA	Water	8021B	
MB 880-8335/8	Method Blank	Total/NA	Water	8021B	
LCS 880-8335/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-8335/35	Lab Control Sample Dup	Total/NA	Water	8021B	
890-1275-8 MS	MW-16	Total/NA	Water	8021B	
890-1275-8 MSD	MW-16	Total/NA	Water	8021B	

Received by OCD: 3/22/2022 12:39:08 PM

Client: Talon/LPE

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Matrix: Water

5 6

7 8 9

# Lab Chronicle

Job ID: 890-1275-1 SDG: Lea County NM

Lab Sample ID: 890-1275-1

# Project/Site: Kimbrough Sweet (Kimbrough) **Client Sample ID: MW-1A** Date Collected: 09/16/21 13:30 Date Received: 09/17/21 13:17 Batch Batch

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/21/21 03:02		XEN MID
Client Sam	ole ID: MW	I-2A						Lab Sample	e ID: 89	0-1275-
Date Collecte										trix: Wate
Date Receive										
_	Datah	Detak		Dil	lu iti al	<b>Final</b>	Datah	Dura u a ura d		
Prep Type	Batch	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	<b>Type</b> Analysis			1	5 mL	5 mL	8153	$\frac{09/21/21}{03:28}$	KL	
-	,			•	0 me	UIIL				
Client Sam								Lab Sample	e ID: 89	0-1275-
Date Collecte									Ма	trix: Wate
Date Receive	d: 09/17/21 1	3:17								
-	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/21/21 03:54	KL	XEN MID
- Client Semi								Lob Comple	. 10, 00	0 4075
Client Sam								Lab Sample		
Date Collecte									Ma	trix: Wate
Date Receive	d: 09/1//21 1	3:17								
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/21/21 04:20	KL	XEN MID
Client Sam		1 1 2						Lab Sample	- ID- 80	0 1275
Date Collecte										trix: Wate
Date Conecte									IVId	unx. wate
		0.17								
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/21/21 04:45	KL	XEN MID
Client Sam	ple ID: MW	/-14						Lab Sample	e ID: 89	0-1275-
Date Collecte										trix: Wate
Date Receive	d: 09/17/21 1	3:17								
_	5 / 1	<b>D</b> / 1						<u> </u>		
	Batch	Batch	Dum	Dil	Initial Amount	Final	Batch	Prepared	Analyst	Lah
Prep Type Total/NA	<b>Type</b> Analysis		Run	Factor	Amount 5 mL	Amount 5 mL	- Number 8153	or Analyzed 09/21/21 05:11	Analyst KL	Lab XEN MID
	Analysis	00210		I	JIIL	JIIL	0155	09/21/21 05.11	κL	
Client Sam	ple ID: MW	/-15						Lab Sample	e ID: 89	0-1275-
Date Collecte								-	Ма	trix: Wate
Date Receive	d: 09/17/21 1	3:17								
_	Batah	Batch		ווח	Initial	Einal	Batab	Bronarad		
Prep Type	Batch	Batch Method	Dun	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzod	Analyst	Lab
FIED IVDE	Туре	wethou	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8153	09/21/21 05:37	KL	XEN MID

# Lab Chronicle

Job ID: 890-1275-1 SDG: Lea County NM

Matrix: Water

XEN MID

5 6

9

Lab Sample ID: 890-1275-8

# Project/Site: Kimbrough Sweet (Kimbrough) Client Sample ID: MW-16

Date Collected: 09/17/21 09:00 Date Received: 09/17/21 13:17

Client: Talon/LPE

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8335	09/24/21 12:37	MR	XEN MID
<b>Client Sam</b>	ple ID: MW	-17						Lab Sample	e ID: 89	0-1275-9
Date Collecte	d: 09/17/21 0	7:25							Ма	trix: Wate
Date Receive	d: 09/17/21 1	3:17								
_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	8335	09/24/21 13:03	MR	XEN MID
	ple ID: MW						L	ab Sample		
Date Collecte	ple ID: MW ed: 09/17/21 0 ed: 09/17/21 1	8:05					L	ab Sample		
Date Collecte	d: 09/17/21 0	8:05		Dil	Initial	Final	L	ab Sample		
Date Collecte	ed: 09/17/21 0 ed: 09/17/21 1	8:05 3:17	Run	Dil Factor	Initial Amount	Final Amount				
Date Collecte Date Receive	ed: 09/17/21 0 d: 09/17/21 1 Batch	8:05 3:17 Batch	Run				Batch	Prepared	Ma Analyst	trix: Wate
Date Collecte Date Receive Prep Type Total/NA	d: 09/17/21 0 d: 09/17/21 1 Batch Type Analysis	8:05 3:17 Batch <u>Method</u> 8021B	Run		Amount	Amount	Batch Number 8335	Prepared or Analyzed 09/24/21 13:30	Ma Analyst MR	trix: Wate
Date Collecte Date Receive Prep Type Total/NA Client Sam	ed: 09/17/21 0 cd: 09/17/21 1 Batch Type	8:05 3:17 Batch Method 8021B	Run		Amount	Amount	Batch Number 8335	Prepared or Analyzed	Ma Analyst MR ID: 890	trix: Wate
Date Collecte Date Receive Prep Type Total/NA Client Sam Date Collecte	ed: 09/17/21 0 cd: 09/17/21 1 Batch <u>Type</u> Analysis ple ID: MW	8:05 3:17 Batch Method 8021B 7-19A 9:15	<u>Run</u>		Amount	Amount	Batch Number 8335	Prepared or Analyzed 09/24/21 13:30	Ma Analyst MR ID: 890	Lab           XEN MID           0-1275-12
Date Collecte Date Receive Prep Type Total/NA Client Sam Date Collecte	ed: 09/17/21 0 ed: 09/17/21 1 Batch Type Analysis ple ID: MW ed: 09/17/21 0	8:05 3:17 Batch Method 8021B 7-19A 9:15	Run		Amount	Amount	Batch Number 8335	Prepared or Analyzed 09/24/21 13:30	Ma Analyst MR ID: 890	Lab XEN MID

5 mL

1

5 mL

8335

09/24/21 13:57 MR

#### Laboratory References:

Analysis

Total/NA

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

8021B

Eurofins Xenco, Carlsbad

Released to Imaging: 8/2/2022 2:58:10 PM

# **Accreditation/Certification Summary**

Page 124 of 154

Client: Talon/LPE				Job ID: 890-1275-1
Project/Site: Kimbrou	gh Sweet ( Kimbrou	jh)		SDG: Lea County NM
Laboratory: Euro	ofins Xenco, Mid	land		
Unless otherwise noted, al	l analytes for this laborato	ry were covered under e	each accreditation/certification below.	
Authority	Pro	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-21-22	06-30-22
The following analyte the agency does not o		rt, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8021B		Water	Total BTEX	
_				

Eurofins Xenco, Carlsbad

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# **Method Summary**

Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough) Job ID: 890-1275-1 SDG: Lea County NM

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

#### **Protocol References:**

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

#### Laboratory References:

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

# Sample Summary

Page 126 of 154

Job ID: 890-1275-1 SDG: Lea County NM

#### Client: Talon/LPE Project/Site: Kimbrough Sweet (Kimbrough)

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
390-1275-1	MW-1A	Water	09/16/21 13:30	09/17/21 13:17	N/A
390-1275-2	MW-2A	Water	09/16/21 13:30	09/17/21 13:17	N/A
390-1275-3	MW-7A	Water	09/16/21 12:25	09/17/21 13:17	N/A
390-1275-4	MW-8A	Water	09/16/21 11:30	09/17/21 13:17	N/A
390-1275-5	MW-12	Water	09/17/21 08:30	09/17/21 13:17	N/A
390-1275-6	MW-14	Water	09/16/21 12:05	09/17/21 13:17	N/A
390-1275-7	MW-15	Water	09/16/21 12:45	09/17/21 13:17	N/A
390-1275-8	MW-16	Water	09/17/21 09:00	09/17/21 13:17	N/A
390-1275-9	MW-17	Water	09/17/21 07:25	09/17/21 13:17	N/A
390-1275-10	MW-18	Water	09/17/21 08:05	09/17/21 13:17	N/A
390-1275-11	MW-19A	Water	09/17/21 09:15	09/17/21 13:17	N/A

5
8
9
13
4.4

Received by	<i>OCD</i> :	3/22/2022	12:39:08 PM
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eurofins	1	Environment Testing Xenco	it Testing	Ho Midia	Paso, TX	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	Cus Dallas, an Antonic Lubbock,	<b>tody</b> IX (214) 902-0 , TX (210) 509 TX (806) 794-	300 -3334 1296		_	Work Order No:	rder N	<u>.</u>	
				Hot	bbs, NM	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Carlsbad,	NM (575) 988-3	1199			WWW.X	www.xenco.com	m Page_	- م دو
Project Manager:	D.Adkins			Bill to: (if different)	ent)	Plains All American Pipeline	erican Pi	oeline				Wo	rk Orde	on on	S
Company Name:	Talon LPE			Company Name:	me:	ATTN: Camille Bryant	e Bryant			Progra	m: UST/P	ST 🗌 PR	₹P 🗌 Bro	wnfields 🗌 F	Program: UST/PST  PRP Brownfields RRC Superfund
Address:	408 W. Texas Ave.	Ave.		Address:		SRS # 2000-10757	10757			State o	State of Project:				
City, State ZIP:	Artesia, NM 88210	3210		City, State ZIP						Reporti	ng: Level	II 🗌 Leve		Reporting: Level II 🗌 Level III 🗍 PST/UST 🗍 TRRP 🗍	
Phone:	575.746.8768		Email:		lonlpe.c	om				Deliver	Deliverables: EDD	ŏ	ADa	ADaPT C C	Other
Project Name:	Kimbrough Sweet (Kimbrough)	veet (Kimbrou		Turn Around				AN	ANALYSIS RE	EQUEST				Pres	Preservative Codes
Project Number:			マRout	Rush	Pres. Code		-				-		-	None: NO	DI Water: H <sub>2</sub> O
Project Location:	Lea Co	Lea County, NM	Due Date:		L						-			Cool: Cool	MeOH: Me
Sampler's Name:	M.Collier	M.Collier/D.Winchell	TAT starts	TAT starts the day received by	y.			-	-	-				HCL: HC	HNO3: HN
PO #	SRS # 2	SRS # 2000-10757	the lab, if r	received by 4:30pn	-									H2S04: H2	NaOH: Na
SAMPLE RECEIPT	PT Temp Blank:	lank: Do No	No Wet Ice:	Yes No	nete									H <sub>3</sub> PO <sub>4</sub> : HP	5
Samples Received Intact:	Yes	No	Thermometer ID:	TNW-00	arar									NaHSO4: NABIS	NABIS
Cooler Custody Seals	Yes	NA	Correction Factor:	+	r F			890-1275	890-1275 Chain of C	Custody	111111			Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
Total Containers:		(	Corrected Temperature:	.2		021B		_	_	_	-	_ 1		NaOH+As(	NaOH+Ascorbic Acid: SAPC
Sample Identification	tification	Matrix Date Sampled	te Time pled Sampled	Depth Grab/	b/ #of tp Cont	BTEX 8								Sam	Sample Comments
MW- IA		GW 9-14-21	W 1:30 m	N/A Grab	<del>υ</del> ω	×								Ema	Email Analyticals to:
					-		-				-		-	CJBn	CJBryant@paalp.com
MW- 7A			17:25				$\vdash$						-	ALGro	ALGroves@paalp.com
Nw- 8A		-	11:30-				-	-			-		-	Maoc	Maocho@paalp.com
MW- 17		9-17-21					$\left  \right $						-		
MW-14		9-16-21	1				-						-		
MW-15		9-14-N			-						+-		+-		
mw-ly		9-17-21					+				-		+		
MN. 17		-	7:25		+		-				-				
Mw-18		-	8.05								-				
Total 200.7 / 6010	)10 200.8 / 6020:	020:	8RCRA 13	13PPM Texas 11		Sb As Ba Be	BCd	Ca Cr Co	Co Cu Fe Pt	Pb Mg Mr	Mn Mo Ni K Se Ag	K Se	19 SiO2	Na Sr TI 3	<u>Sn U V Zn</u>
ICLP / SPACE 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 for service. Eurofins Xenco, A minimum charge of \$5.00 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 regotiated of services in currents Xenco. A minimum charge of \$5.00 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 regotiated to the current service.	no ivietat(S) to pe document and relingu to will be liable only fo imum charge of \$85.0	3 analyzed ishment of samplo or the cost of sam 00 will be applied t	ICLY / 2 es constitutes a vali- ples and shall not as to each project and a	ICLP / SPLP bUTU: BRCKA tutes a valid purchase order from client shall not assume any responsibility for solect and a charge of \$5 for each samp	om client bility for a	SD AS BE BE CO CF CO CU PD MIT MIO INI SE AG IT O company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard to iny losses or expenses incurred by the client if such losses are due to circumstance is submitted to Eurofins Xenco, but not analyzed. These torms will be enforced unle le submitted to Eurofins Xenco.	ins Xenco, inses incur	its affiliates and red by the client	subcontractor if such losses zed. These ten	IVI CE s. It assigns are due to c ms will be er	s standard the sta	terms and c es beyond t	inditions conditions the control sly negotia	☐9. 1031 / 243.1 / 7470 / 7471 conditions 1 the control usly negotiated.	+/0///4/1
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сл •					-		0							Revis	Revised Date: 08/25/2020 Rev. 2020.2

	Environment Testing	esting	Midland,	TX (43	2) 704-5440, San Ar	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334		Work O	Work Order No:	
	Xenco		EL Pase	0, TX (	915) 585-3443, Lubt	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296				•
							]	WWW.X6	www.xenco.com	Page C of A
Project Manager:	D.Adkins	Bill	Bill to: (if different)		Plains All American Pipeline	n Pipeline		Wor	Work Order Comments	mments
	Talon LPE	Co	Company Name:		ATTN: Camille Bryant	/ant	Program:		P Brownfi	Program: UST/PST  PRP Brownfields  RRC  Superfund
	408 W. Texas Ave.	Ado	Address:		SRS # 2000-10757	7	State of Project:	roject:		
e ZIP:	Artesia, NM 88210	City	City, State ZIP:				Reporting:	Level II 🗌 Leve		Reporting: Level II  Level III  PST/UST  TRRP  Level IV
	575.746.8768	Email: dau	Email: dadkins@talonlpe.com	pe.co	В		Deliverables: EDD		ADaPT	Other:
Name:	Kimbrough Sweet (Kimbrough)	Turn Around	ound			ANALYSIS REC	EQUEST			Preservative Codes
ň		J Routine		Pres. Code					z	None: NO DI Water: H <sub>2</sub> O
Project Location:	Lea County, NM	Due Date:							0	Cool: Cool MeOH: Me
Sampler's Name:	M.Collier/D.Winchell	TAT starts the da	y received by					_	н	HCL: HC HNO3: HN
PO #:	SRS # 2000-10757	the lab, if received by 4:30pm	ed by 4:30pm	rs					I	H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub> NaOH: Na
SAMPLE RECEIPT	T Temp Blank: Yes No	Wet Ice:	Yes No	nete					I	H <sub>3</sub> PO <sub>4</sub> ; HP
Samples Received Intact:	-	ter ID:		araı				<u> </u>	z	NaHSO4: NABIS
Cooler Custody Seals:	+	Factor: To		P						Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> : NaSO <sub>3</sub>
Sample Custody Seals	Yes No N/A	Temperature Reading:			1B					
Total contanters.			_		80				T	
Sample Identification	ification Matrix Date	Sampled	Depth Comp	# of Cont	втех					Sample Comments
MW-19 A	GW 9-17-21	9:15 N/A	A Grab	ω	×					Email Analyticals to:
										CJBryant@paalp.com
										ALGroves@paalp.com
										Maocho@paalp.com
					_					
Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	AI Sb	As Ba Be B	Cd Ca Cr Co Cu Fe	Pb Mg Mn Mo Ni	K Se	Ag SiO <sub>2</sub> Na	Na Sr TI Sn U V Zn
Circle Method(s) an	Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP	6010: BRC	RA	sb As Ba Be (	TCLP/SPLP 6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	no Ni Se Ag TI U		lg: 1631/24	Hg: 1631/245.1/7470/7471
Notice: Signature of this de of service. Eurofins Xenco	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 service. Eurofins Xenco A minimum charge of \$55.00 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.	nstitutes a valid purch and shall not assume ch project and a charc	hase order from c any responsibility ae of \$5 for each	lient co y for an sample	mpany to Eurofins X y losses or expenses submitted to Eurofin	enco, its affiliates and subcontrac Incurred by the client if such loss s Xenco, but not analyzed. These to	tors. It assigns states are due to circu terms will be enfor	It assigns standard terms and conditions a due to circumstances beyond the contro will be enforced unless previously negotia	onditions he control ly negotiated.	
Relinquished by: (Signature)	(Signature) Receiv	Received by: (Signature)	e)		Date/Time	Relinquished by: (Signature)	nature)	Received by: (Signature)	(Signature	e) Date/Time
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Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334

9/24/2021

# Chain of Custody Record

Seurofins Environment Testing

1089 N Canal St. Carlsbad NM 88220	c	hain o	Chain of Custody Record	ody R	ecoi	đ											5	🗞 entonus		Environment Testing America
Phone <sup>,</sup> 575-988-3199 Fax: 575-988-3199	Sampler:			l ah PM							2		Carrier Tracking No(s)	No(s)			2	COC No:		
Client Information (Sub Contract Lab)				Kram	Kramer Jessica	sica					<u> </u>	ĺ					8	890-413 1		
Client Contact: Shipping/Receiving	Phone <sup>.</sup>			E-Mail jessic	E-Mail Jessica.kramer@eurofinset.com	er@ei	Irofins	iet co	3		Z Q	State of Origin: New Mexico	Drigin:				d d	<sub>Page:</sub> Page 1 of 2		
Company Eurofins Xenco					Accreditations Required (See note) NELAP - Texas	- Tex	equired 3S	(See n	ote)								ی 80 ک	Job #: 890-1275-1		
Address 1211 W Florida Ave	Due Date Requested 9/23/2021							≥	Analy	lysis F	Requested	este	۹ ا				. <u>P</u>	Preservation Codes	Codes	
City: Midland	TAT Requested (days):	/s):			Santi terreta											77 280	<u>,</u> α >	3 NaOH 2 Zn Acetate	) <i>7 7</i>	M Hexane V None J - AsNaO2
State Zip TX 79701																ev he walk			<b>о</b> т.	P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO#				)												Ι G T	<ul> <li>MeOH</li> <li>Amchlor</li> <li>Ascorbic Acid</li> </ul>		R Na2S2O3 S H2SO4 F TSP Dodecahudrate
Email	WO #:															0/12/05/2004	igonan. A	_		J Acetone MCAA
<sup>3</sup> Project Name Kımbrough Sweet ( Kimbrough)	Project # 89000047																tainei r t	- EDA	N 🗸	W pH 4-5 Z other (specify)
Site	SSOW#					TEX										200///02/22/1/02	and the second	Other <sup>.</sup>		
			Sample	Matrix (w=water	iltered m MS/N	5030B B										and the second	lumber			
Sample Identification - Client ID (Lab ID)	Sample Date	Sampie Time	(C=Comp, G=grab) ⊨	All ,		8021	ļ									MERIO 477	Tota	Specia	Inst	Special Instructions/Note:
	X	X	Preservation Code	on Code:	X		t Napří	Magard.		i Longagi					and a start		X		V	
MW-1A (890-1275-1)	9/16/21	13 30 Mountain		Water		×				<b>_</b>		<u> </u>	<b> </b>				6			
MW-2A (890-1275-2)	9/16/21	13 30 Mountain		Water		×											ω			
MW-7A (890-1275-3)	9/16/21	12 25 Mountain		Water		×											ట			
MW-8A (890-1275-4)	9/16/21	11 30 Mountain		Water		×											ω			
MW-12 (890-1275-5)	9/17/21	08 30 Mountain		Water		×											3			
MWI-14 (890-1275-6)	9/16/21	12 05 Mountain		Water		×											ε			
MW-15 (890-1275-7)	9/16/21	12 45 Mountain		Water		×											3			
MW-16 (890-1275-8)	9/17/21	09 00 Mountain		Water		×											8			
MW-17 (890-1275-9)	9/17/21	07 25 Mountain		Water		×											3			
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	blaces the ownership c leing analyzed the sau e signed Chain of Cus	of method ana mples must be tody attesting t	lyte & accredita shipped back to said complic:	ition complianc to the Eurofins ance to Eurofin	e upon ol Xenco LL s Xenco I	ut subco _C labor LLC.	atory o	laborat r other	ories. instruc	This se tions w	mple s ill be p	hipmer rovídec	it is for . Any	warde	d unde es to a	r chain ccredit	r-of-cus ation st	stody If the lat tatus should be	boraton) ≆ brougi	y does not currently ht to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed					San		' <b>e Disposal ( A f</b> i Return To Client	clie	l fee i nt	may i	De as	sesse sposa	<b>assessed if san</b> Disposal Bv Lab	amp	les ai	⊔re ret	ainec	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	m 1 n	nonth) Months
Deliverable Requested   II III IV Other (specify)	Primary Deliverable Rank	ble Rank 2			Spe	Special Instructions/QC	structi	ions/C		Requirements	ment	<i>"</i>								
Empty Kit Relinquished by		Date			Time.		)		V	ļ		Å	Method of Shipment:	of Ship	ment					
Relinquished by Clue CM 9.17.2	Date/Time			Company		Received b	$\mathcal{R}$	A		Z			~	Dat	Date	6	2	U-:II	$\Box$	ODWAR
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Relinquished by:	Date/Time		0	Company		Received by:	ed by:							Dat	Date/Time:	Â				Company

Custody Seals Intact. ∆ Yes ∆ No

Custody Seal No

Cooler Temperature(s) °C and Other Remarks.

Ver 06/08/2021

Eurofi	
rofins Xenco, Carlsbad	
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**13** 14

Carlsbad NM 88220 Phone: 575-988-3199 Fax 575-988-3199 089 N Canal St

State, Zip<sup>.</sup> TX 79701

Midland

211 W Florida Ave

Due Date Requested 9/23/2021

TAT Requested (days):

hipping/Receiving

ent Contact:

**Jrofins Xenco** 

lient Information

(Sub Contract Lab)

Phone

jessica kramer@eurofinset com

State of Origin New Mexico

Page 2 of 2 COC No: 890-413 2

Preservation Codes 890-1275-1

νοzs

Hexane

Carrier Tracking No(s)

NELAP - Texas

litations Required (See note)

dites.

Analysis Requested

A -HCL B NaOH C Zri Acetate E NaHSO4 F MeOH F MeOH H Ascobic Acid I Los Acid

N None P AsNAO2 P As2O4S Q Na2SO3 R Na2S2O3 S - H2SO4 T TSP Dodecahydrate U Acetone V - MCAA

Kramer Jessica Lab PM -Mail:

Sampler

Emai

432-704-5440(Tel)

Kimbrough Sweet (Kimbrough)

Project #: 89000047

\$SOW#

# OM PO#

oject Name

MW-18 (890-1275-10) MW-19A (890-1275-11)

Sample Identification - Client ID (Lab ID)

Sample Date

Sample Time

(C=comp, G=grab)

Preservation Code:

BT=Tissue, A=A

Sample

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Type

(W=water S=solid, O=waste/oll, Matrix

8021B/5030B BTEX

Total Number of containers

Other EDA

W pH 4-5 Z other (specify)

9/17/21 9/17/21

Mountain 09 15 Mountain

> Water Water

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**Environment Testing** America

Empty Kit Relinquished by

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Date/Time

Company

Receive Regéive

Time

Special Instructions/QC Requirements

Return To Client

Date/Time

Company Company

Received by

Cooler Temperature(s) °C and Other Remarks

Date/Time:

elinquished by

elinquished by:

Custody Seals Intact:

Custody Seal No

Yes N 0

Deliverable Requested 1 II III IV Other (specify)

Primary Deliverable Rank. 2

Date

ossible Hazard Identification

nconfirmed

lote: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently raintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.

Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Disposal By Lab

Archive For

Months

Method of Shipmen

Date/Thme Date/Time

Company

ompan

Ver 06/08/2021

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Special Instructions/Note

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# Login Sample Receipt Checklist

Client: Talon/LPE

#### Login Number: 1275 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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-1275-1

SDG Number: Lea County NM

List Source: Eurofins Xenco, Carlsbad

# Login Sample Receipt Checklist

Client: Talon/LPE

<6mm (1/4").

#### Login Number: 1275 List Number: 2 Creator: Lowe Katie

Job Number: 890-1275-1
SDG Number: Lea County NM

List Creation: 09/18/21 01:36 PM

List Source: Eurofins Xenco, Midland

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

Received by OCD: 3/22/2022 12:39:08 PM

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# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 890-1664-1

Client Project/Site: Kimbrough Sweet 8"

# For:

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

Attn: David Adkins

RAMER

Authorized for release by: 12/8/2021 4:55:29 PM

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

Review your project results through TOTOLACCESS

LINKS



Visit us at: www.eurofinsus.com/Env Released to Imaging: 8/2/2022 2:58:10 PM This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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

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Client: Talon/Ll	PE Job ID: 890-166	34-1
	(imbrough Sweet 8"	)4-1
Qualifiers		
GC VOA Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	1
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)	

Eurofins Xenco, Carlsbad

**Released to Imaging: 8/2/2022 2:58:10 PM** 

Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

TEQ

TNTC

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## Job ID: 890-1664-1

#### Job ID: 890-1664-1

#### Laboratory: Eurofins Xenco, Carlsbad

#### Narrative

Job Narrative 890-1664-1

#### Receipt

The samples were received on 12/1/2021 2:06 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.0°C

#### GC VOA

Method 8021B: The following sample was diluted due to the nature of the sample matrix: MW-12 (890-1664-7) at 10.0. Elevated reporting limits (RLs) are provided.

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

Job ID: 890-1664-1

#### Client: Talon/LPE Project/Site: Kimbrough Sweet 8"

# **Client Sample ID: MW-15**

Date Collected: 12/01/21 09:00 Date Received: 12/01/21 14:06

Sample Depth: N/A

# Lab Sample ID: 890-1664-1

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/04/21 22:50	
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/04/21 22:50	
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/04/21 22:50	
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 22:50	
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 22:50	
Xylenes, Total	<0.00400	U	0.00400	0.000642	•			12/04/21 22:50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	105		70 - 130			-		12/04/21 22:50	·
1,4-Difluorobenzene (Surr)	103		70 - 130					12/04/21 22:50	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/08/21 12:45	
Ilient Sample ID: MW-14 ate Collected: 12/01/21 10:00 ate Received: 12/01/21 14:06 ample Depth: N/A								mple ID: 890- Matrix	c: Wate
Method: 8021B - Volatile Organic Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/04/21 23:16	1
Toluene			0.00200	0.000367	-			12/04/21 23:16	
Ethylbenzene	<0.00200	U	0.00200	0.000657				12/04/21 23:16	
m-Xylene & p-Xylene	<0.00400		0.00400	0.000629	0			12/04/21 23:16	
o-Xylene	< 0.00200	U	0.00200	0.000642	•			12/04/21 23:16	
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 23:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	96		70 - 130			-		12/04/21 23:16	
1,4-Difluorobenzene (Surr)	99		70 - 130					12/04/21 23:16	-
Method: Total BTEX - Total BTEX	Calculation								
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/08/21 12:45	1
lient Sample ID: MW-7A							Lab Sa	mple ID: 890-	1664-3
ate Collected: 12/01/21 11:00								Matrix	c: Wate
ate Received: 12/01/21 14:06									
ample Depth: N/A									
Method: 8021B - Volatile Organic	Compounds (	GC)							
Analyte		Qualifier	RL		Unit	D	Prepared		Dil Fa

Welliou. 0021D - Volatile Of	ganic compounds (	(00)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/07/21 18:11	1
Toluene	0.000477	J	0.00200	0.000367	mg/L			12/07/21 18:11	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/07/21 18:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/07/21 18:11	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/07/21 18:11	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/07/21 18:11	1

Eurofins Xenco, Carlsbad

Client: Talon/LPE

# **Client Sample Results**

Job ID: 890-1664-1

lient Sample ID: MW-7A							Lab Sa	mple ID: 890-	1664-3
Date Collected: 12/01/21 11:00									c: Water
Date Received: 12/01/21 14:06									
Sample Depth: N/A									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	106		70 - 130			-		12/07/21 18:11	
1,4-Difluorobenzene (Surr)	89		70 - 130					12/07/21 18:11	
- Method: Total BTEX - Total BTE	EX Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400		0.00400	0.000657			·	12/08/21 12:45	·
Client Sample ID: MW-8A							Lab Sa	mple ID: 890-	1664-4
Date Collected: 12/01/21 12:00									c: Wate
Date Received: 12/01/21 14:06									Li Trococci
Sample Depth: N/A									
-									
Method: 8021B - Volatile Organ		GC) Qualifier	ы	МП	Unit	D	Bronarod	Analyzad	Dil Fa
Analyte						<b>_</b>	Prepared	Analyzed 12/04/21 23:41	DIIFa
Benzene			0.00200	0.000408	•				
Toluene	<0.00200		0.00200	0.000367				12/04/21 23:41	
Ethylbenzene	<0.00200		0.00200	0.000657				12/04/21 23:41	
m-Xylene & p-Xylene	<0.00400		0.00400	0.000629				12/04/21 23:41	
o-Xylene	<0.00200		0.00200	0.000642				12/04/21 23:41	
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 23:41	
Surrogate	%Recovery		Limits			-	Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	0.007	S1-	70 - 130					12/04/21 23:41	
1,4-Difluorobenzene (Surr)	103		70 - 130					12/04/21 23:41	
-	EX Colouistion								
Method: Total BTEX - Total BTE							Prepared	Analyzed	Dil Fa
Method: Total BTEX - Total BTE Analyte		Qualifier	RL	MDL	Unit	D	riepaieu	Analyzea	
			<b>RL</b> 0.00400	MDL 0.000657		<u>D</u>	riepaieu	12/08/21 12:45	
Analyte Total BTEX	Result					<u>D</u>	•	12/08/21 12:45	
Analyte Total BTEX Client Sample ID: MW-17	Result					<u>D</u>	•	12/08/21 12:45	1664-
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15	Result					<u>D</u>	•	12/08/21 12:45	1664-
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06	Result					<u>D</u>	•	12/08/21 12:45	1664-{
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A	Result <0.00400	U				<u> </u>	•	12/08/21 12:45	1664- <b>(</b> c: Wate
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ	Result <0.00400	U (GC)	0.00400	0.000657	mg/L		Lab Sa	12/08/21 12:45 mple ID: 890- Matrix	1664-4 c: Wate
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte	nic Compounds (	GC) Qualifier	0.00400	0.000657	mg/L Unit	D	•	12/08/21 12:45 mple ID: 890- Matrix	1664- c: Wate
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene	Result           <0.00400	U (GC) Qualifier U	0.00400	0.000657 MDL 0.000408	Unit mg/L		Lab Sa	12/08/21 12:45 mple ID: 890- Matrix 	1664-4 c: Wate
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene Toluene	Result           <0.00400	GC) Qualifier U U	0.00400 0.00400 RL 0.00200 0.00200	0.000657 MDL 0.000408 0.000367	Unit mg/L mg/L mg/L		Lab Sa	12/08/21 12:45 mple ID: 890- Matrix Analyzed 12/05/21 00:07 12/05/21 00:07	1664-4 <: Wate
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene	Result           <0.00400	GC) Qualifier U U U	0.00400 <b>RL</b> 0.00200 0.00200 0.00200	0.000657 MDL 0.000408 0.000367 0.000657	Unit mg/L mg/L mg/L mg/L		Lab Sa	12/08/21 12:45 mple ID: 890- Matrix Analyzed 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07	1664-4 k: Wate
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result           <0.00400	GC) Qualifier U U U U	0.00400 <b>RL</b> 0.00200 0.00200 0.00200 0.00200 0.00400	0.000657 MDL 0.000408 0.000367 0.000657 0.000629	Unit mg/L mg/L mg/L mg/L mg/L		Lab Sa	12/08/21 12:45 mple ID: 890- Matrix 2/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07	1664-
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result           <0.00400	GC) Qualifier U U U U U U	RL           0.00200           0.00200           0.00200           0.00200           0.00200           0.00200           0.00200           0.00200           0.00200           0.00200	0.000657 MDL 0.000408 0.000367 0.000657 0.000629 0.000642	Unit mg/L mg/L mg/L mg/L mg/L mg/L		Lab Sa	Analyzed           12/05/21 12:45           mple ID: 890-           Matrix           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07	1664-4 c: Wate
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result           <0.00400	GC) Qualifier U U U U U U	0.00400 <b>RL</b> 0.00200 0.00200 0.00200 0.00200 0.00400	0.000657 MDL 0.000408 0.000367 0.000657 0.000629	Unit mg/L mg/L mg/L mg/L mg/L mg/L		Lab Sa	12/08/21 12:45 mple ID: 890- Matrix 2/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07	1664- c: Wate
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result           <0.00400	GC) Qualifier U U U U U U U U U U	RL           0.00200           0.00200           0.00200           0.00200           0.00200           0.00200           0.00200           0.00200           0.00200           0.00200	0.000657 MDL 0.000408 0.000367 0.000657 0.000629 0.000642	Unit mg/L mg/L mg/L mg/L mg/L mg/L		Lab Sa	Analyzed           12/05/21 12:45           mple ID: 890-           Matrix           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07	1664- c: Wate
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	Result           <0.00400	GC) Qualifier U U U U U U U U U U	0.00400 <b>RL</b> 0.00200 0.00200 0.00200 0.00200 0.00400 0.00200 0.00400	0.000657 MDL 0.000408 0.000367 0.000657 0.000629 0.000642	Unit mg/L mg/L mg/L mg/L mg/L mg/L		Lab Sa	Analyzed           12/05/21 12:45           mple ID: 890-           Matrix           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07           12/05/21 00:07	Dil Fa
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	Result           <0.00400	GC) Qualifier U U U U U U U U U U	RL           0.00400           RL           0.00200           0.00200           0.00200           0.00200           0.00400           0.00200           0.00400           0.00400           0.00400           0.00400           Limits	0.000657 MDL 0.000408 0.000367 0.000657 0.000629 0.000642	Unit mg/L mg/L mg/L mg/L mg/L mg/L		Lab Sa	12/08/21 12:45 mple ID: 890- Matrix Matrix 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07	Dil Fa
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	Result           <0.00400	GC) Qualifier U U U U U U U U U U	RL           0.00400           RL           0.00200           0.00200           0.00200           0.00200           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400	0.000657 MDL 0.000408 0.000367 0.000657 0.000629 0.000642	Unit mg/L mg/L mg/L mg/L mg/L mg/L		Lab Sa	12/08/21 12:45 mple ID: 890 Matrix Matrix Analyzed 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07	Dil Fa
Analyte Total BTEX Client Sample ID: MW-17 Date Collected: 12/01/21 09:15 Date Received: 12/01/21 14:06 Sample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	Result           <0.00400	GC) Qualifier U U U U U U U U U U	RL           0.00400           RL           0.00200           0.00200           0.00200           0.00200           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400           0.00400	0.000657 MDL 0.000408 0.000367 0.000657 0.000642 0.000642 0.000642	Unit mg/L mg/L mg/L mg/L mg/L mg/L		Lab Sa	12/08/21 12:45 mple ID: 890 Matrix Matrix Analyzed 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07 12/05/21 00:07	1664- c: Wate

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00400 U

<0.00200 U

<0.00400 U

%Recovery Qualifier

103

RL

0.00200

0.00200

0.00200

0.00400

0.00200

0.00400

Limits

70 - 130

MDL Unit

mg/L

0.000408

0.000367 mg/L

0.000657 mg/L

0.000629 mg/L

0.000642 mg/L

0.000642 mg/L

D

Prepared

Prepared

Job ID: 890-1664-1

# Client: Talon/LPE Project/Site: Kimbrough Sweet 8"

# **Client Sample ID: MW-18**

Date Collected: 12/01/21 09:45 Date Received: 12/01/21 14:06

Sample Depth: N/A

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

Lab Sample ID: 890-1664-6

Analyzed

12/05/21 00:33

12/05/21 00:33

12/05/21 00:33

12/05/21 00:33

12/05/21 00:33

12/05/21 00:33

Analyzed

12/05/21 00:33

Matrix: Water

Dil Fac

1

1

1

1

1

1

Dil Fac

									-
1,4-Difluorobenzene (Surr)	105		70 - 130					12/05/21 00:33	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/08/21 12:45	1
Client Sample ID: MW-12							Lab Sa	mple ID: 890-	1664-7
Date Collected: 12/01/21 10:20									x: Water
Date Received: 12/01/21 14:06									
Sample Depth: N/A									
 Method: 8021B - Volatile Organic	Compounds	(GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0200	U	0.0200	0.00408	mg/L			12/05/21 00:59	10
Toluene	<0.0200	U	0.0200	0.00367	mg/L			12/05/21 00:59	10
Ethylbenzene	<0.0200	U	0.0200	0.00657	mg/L			12/05/21 00:59	10
m-Xylene & p-Xylene	<0.0400	U	0.0400	0.00629	mg/L			12/05/21 00:59	10
o-Xylene	<0.0200	U	0.0200	0.00642	mg/L			12/05/21 00:59	10
Xylenes, Total	<0.0400	U	0.0400	0.00642	mg/L			12/05/21 00:59	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			-		12/05/21 00:59	10
1,4-Difluorobenzene (Surr)	99		70 - 130					12/05/21 00:59	10
 Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0400	U	0.0400	0.00657	mg/L			12/08/21 12:45	1
Client Sample ID: MW-16							Lab Sa	mple ID: 890-	1664-8
Date Collected: 12/01/21 10:50								Matrix	x: Water
Date Received: 12/01/21 14:06									
Sample Depth: N/A									
Method: 8021B - Volatile Organic	: Compounds	(GC)							
Analyte	-	Qualifier	RI	МП	Unit	п	Prenared	<b>Analyzed</b>	Dil Fac

wethou. 002 rb - volatile organic com	pounus	(60)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/05/21 01:25	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/05/21 01:25	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/05/21 01:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/05/21 01:25	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/05/21 01:25	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/05/21 01:25	1

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Released to Imaging: 8/2/2022 2:58:10 PM

12/8/2021

# **Client Sample Results**

Job ID: 890-1664-1

lient Sample ID: MW-16							Lab Sa	mple ID: 890-	1664-8
ate Collected: 12/01/21 10:50								Matrix	k: Water
ate Received: 12/01/21 14:06									
Sample Depth: N/A									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)		S1-	70 - 130			-	riepuica	12/05/21 01:25	1
1,4-Difluorobenzene (Surr)	87	0,	70 - 130					12/05/21 01:25	1
-	-		/ • - / • -					, <b>L</b> , <b>U</b> , <b>L</b> , <b>U</b> , <b>L</b> , <b>U</b> , <b>L</b> , <b>U</b>	
Method: Total BTEX - Total BTE	EX Calculation								
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/08/21 12:45	1
Client Sample ID: MW-1A							Lab Sa	mple ID: 890-	1664-9
Date Collected: 12/01/21 11:10									k: Water
Date Received: 12/01/21 14:06									
Sample Depth: N/A									
Method: 8021B - Volatile Organ									
Analyte		Qualifier			Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	0.000408				12/07/21 18:37	1
Toluene	<0.00200		0.00200	0.000367				12/07/21 18:37	1
Ethylbenzene	<0.00200		0.00200	0.000657				12/07/21 18:37	1
m-Xylene & p-Xylene	<0.00400		0.00400	0.000629				12/07/21 18:37	1
o-Xylene	<0.00200		0.00200	0.000642	•			12/07/21 18:37	٦ •
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/07/21 18:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			-		12/07/21 18:37	
1,4-Difluorobenzene (Surr)	114		70 - 130					12/07/21 18:37	1
Method: Total BTEX - Total BTE									
Analyte		Qualifier			Unit	<u> </u>	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	0.000657	mg/L			12/08/21 12:45	1
Client Sample ID: MW-19							I ab San	nple ID: 890-10	664-10
ate Collected: 12/01/21 12:05							Eur eu.		k: Water
ate Received: 12/01/21 14:06									
Date Received: 12/01/21 14:06 Sample Depth: N/A									
ample Depth: N/A									
ample Depth: N/A - Method: 8021B - Volatile Organ					··				
ample Depth: N/A Method: 8021B - Volatile Organ Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
ample Depth: N/A Method: 8021B - Volatile Organ Analyte Benzene	Result <0.00200	Qualifier	0.00200	0.000408	mg/L	D	Prepared	12/07/21 19:03	· · · · ·
Method: 8021B - Volatile Organ Analyte Benzene Toluene	Result           <0.00200	Qualifier U U	0.00200 0.00200	0.000408	mg/L mg/L	D	Prepared	12/07/21 19:03 12/07/21 19:03	· · · ·
Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene	Result           <0.00200	Qualifier U U U	0.00200 0.00200 0.00200	0.000408 0.000367 0.000657	mg/L mg/L mg/L	<u>D</u>	Prepared	12/07/21 19:03 12/07/21 19:03 12/07/21 19:03	
Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result           <0.00200	Qualifier U U U U	0.00200 0.00200 0.00200 0.00400	0.000408 0.000367 0.000657 0.000629	mg/L mg/L mg/L mg/L	D	Prepared	12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03	
Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result           <0.00200	Qualifier U U U U U U	0.00200 0.00200 0.00200 0.00400 0.00200	0.000408 0.000367 0.000657 0.000629 0.000642	mg/L mg/L mg/L mg/L mg/L	<u> </u>	Prepared	12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03	
Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result           <0.00200	Qualifier U U U U U U	0.00200 0.00200 0.00200 0.00400	0.000408 0.000367 0.000657 0.000629	mg/L mg/L mg/L mg/L mg/L	<u> </u>	Prepared	12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03	
Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result           <0.00200	Qualifier U U U U U U U U	0.00200 0.00200 0.00200 0.00400 0.00200	0.000408 0.000367 0.000657 0.000629 0.000642	mg/L mg/L mg/L mg/L mg/L	<u> </u>	Prepared	12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03	
Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	Result           <0.00200	Qualifier U U U U U U U U	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400	0.000408 0.000367 0.000657 0.000629 0.000642	mg/L mg/L mg/L mg/L mg/L	<u> </u>		12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03	
Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	Result           <0.00200	Qualifier U U U U U U U U	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 Limits	0.000408 0.000367 0.000657 0.000629 0.000642	mg/L mg/L mg/L mg/L mg/L	<u> </u>		12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 12/07/21 19:03 Analyzed	Dil Fa
Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	Result           <0.00200	Qualifier U U U U U U U U	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 Limits 70 - 130	0.000408 0.000367 0.000657 0.000629 0.000642	mg/L mg/L mg/L mg/L mg/L	<u> </u>		12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03	Dil Fa
Method: 8021B - Volatile Organ Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	Result           <0.00200	Qualifier U U U U U U U U	0.00200 0.00200 0.00200 0.00400 0.00200 0.00400 Limits 70 - 130	0.000408 0.000367 0.000657 0.000629 0.000642	mg/L mg/L mg/L mg/L mg/L	D		12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03           12/07/21         19:03	Dil Fa

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

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Client Sample ID (70-130) (70-130) Lab Sample ID 890-1664-1 MW-15 105 103 890-1664-2 MW-14 96 99 890-1664-3 MW-7A 106 89 890-1664-4 MW-8A 0.007 S1-103 890-1664-5 MW-17 114 116 890-1664-6 MW-18 103 105 890-1664-7 MW-12 96 99 MW-16 61 S1-87 890-1664-8 890-1664-9 MW-1A 109 114 890-1664-10 MW-19 124 119 LCS 880-13920/3 Lab Control Sample 93 95 LCS 880-13998/65 Lab Control Sample 124 122 LCSD 880-13920/4 Lab Control Sample Dup 102 105 LCSD 880-13998/66 Lab Control Sample Dup 105 102 MB 880-13920/8 55 S1-91 Method Blank MB 880-13998/70 Method Blank 73 108 MB 880-14063/5-A Method Blank 65 S1-102 Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

Prep Type: Total/NA

6

## **QC Sample Results**

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

Lab Sample	ID: MB	880-13920/8	

Matrix: Water Analysis Batch: 13920

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	0.000408	mg/L			12/04/21 15:20	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/04/21 15:20	1
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/04/21 15:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/04/21 15:20	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/04/21 15:20	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/04/21 15:20	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	55	S1-	70 - 130			-		12/04/21 15:20	1
1,4-Difluorobenzene (Surr)	91		70 - 130					12/04/21 15:20	1

# Lab Sample ID: LCS 880-13920/3

#### Matrix: Water

Analysis Batch: 13920
-----------------------

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08558		mg/L		86	70 - 130	
Toluene	0.100	0.07806		mg/L		78	70 - 130	
Ethylbenzene	0.100	0.08366		mg/L		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1821		mg/L		91	70 - 130	
o-Xylene	0.100	0.08762		mg/L		88	70 - 130	

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

#### Lab Sample ID: LCSD 880-13920/4

#### Matrix: Water

Analysis Batch: 13920						
	Spike	LCSD	LCSD			%Rec.
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits
Benzene	0.100	0.08954	mg/L		90	70 - 130
Toluene	0.100	0.08154	mg/L		82	70 - 130
Ethylbenzene	0.100	0.08819	mg/L		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1928	mg/L		96	70 - 130
o-Xylene	0.100	0.09296	mg/L		93	70 - 130

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

#### Lab Sample ID: MB 880-13998/70 Matrix: Water

# Analysis Batch: 13998

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	0.000408	mg/L			12/07/21 17:19	1
Toluene	<0.00200	U	0.00200	0.000367	mg/L			12/07/21 17:19	1

#### Eurofins Xenco, Carlsbad

Prep Type: Total/NA

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

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

RPD

5

4

5

6

6

RPD

Limit

20

20

20

20

20

**Client Sample ID: Method Blank** 

## **QC Sample Results**

Client: Talon/LPE Project/Site: Kimbrough Sweet 8"

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

MB MB

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

#### Lab Sample ID: MB 880-13998/70 Matrix: Water

#### Analysis Batch: 13998

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00200	U	0.00200	0.000657	mg/L			12/07/21 17:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	0.000629	mg/L			12/07/21 17:19	1
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L			12/07/21 17:19	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L			12/07/21 17:19	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130					12/07/21 17:19	1
1,4-Difluorobenzene (Surr)	108		70 - 130					12/07/21 17:19	1

# Lab Sample ID: LCS 880-13998/65 Matrix: Water

#### Analysis Batch: 13998

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1096		mg/L		110	70 - 130	
Toluene	0.100	0.09890		mg/L		99	70 - 130	
Ethylbenzene	0.100	0.1043		mg/L		104	70 - 130	
m-Xylene & p-Xylene	0.200	0.2252		mg/L		113	70 - 130	
o-Xylene	0.100	0.1105		mg/L		110	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	122		70 - 130

#### Lab Sample ID: LCSD 880-13998/66 Matrix: Water Analysis Batch: 13998

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09960		mg/L		100	70 - 130	10	20
Toluene	0.100	0.09593		mg/L		96	70 - 130	3	20
Ethylbenzene	0.100	0.09819		mg/L		98	70 - 130	6	20
m-Xylene & p-Xylene	0.200	0.2116		mg/L		106	70 - 130	6	20
o-Xylene	0.100	0.1043		mg/L		104	70 - 130	6	20

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

#### Lab Sample ID: MB 880-14063/5-A Matrix: Water Analysis Batch: 13998

#### МВ МВ Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 0.000408 mg/L Benzene <0.00200 U 0.00200 12/06/21 13:31 12/07/21 03:17 1 Toluene <0.00200 U 0.00200 0.000367 mg/L 12/06/21 13:31 12/07/21 03:17 1 Ethylbenzene <0.00200 U 0.00200 0.000657 mg/L 12/06/21 13:31 12/07/21 03:17 1 <0.00400 U 0.00400 0.000629 mg/L 12/06/21 13:31 12/07/21 03:17 m-Xylene & p-Xylene 1

Eurofins Xenco, Carlsbad

**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 14063

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

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Job ID: 890-1664-1

Client: Talon/LPE Project/Site: Kimbrough Sweet 8"

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

Lab Sample ID: MB 880-14063 Matrix: Water Analysis Batch: 13998	/5-A						Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	otal/NA
Analysis Baton. 10000	МВ	MB						Top Dator	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	0.000642	mg/L		12/06/21 13:31	12/07/21 03:17	1
Xylenes, Total	<0.00400	U	0.00400	0.000642	mg/L		12/06/21 13:31	12/07/21 03:17	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	65	S1-	70 - 130				12/06/21 13:31	12/07/21 03:17	1
1,4-Difluorobenzene (Surr)	102		70 - 130				12/06/21 13:31	12/07/21 03:17	1

# **QC Association Summary**

Client: Talon/LPE Project/Site: Kimbrough Sweet 8"

5 6 7

Job ID: 890-1664-1

#### **GC VOA**

#### Analysis Batch: 13920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1664-1	MW-15	Total/NA	Water	8021B	
890-1664-2	MW-14	Total/NA	Water	8021B	
890-1664-4	MW-8A	Total/NA	Water	8021B	
890-1664-5	MW-17	Total/NA	Water	8021B	
890-1664-6	MW-18	Total/NA	Water	8021B	
890-1664-7	MW-12	Total/NA	Water	8021B	
890-1664-8	MW-16	Total/NA	Water	8021B	
MB 880-13920/8	Method Blank	Total/NA	Water	8021B	
LCS 880-13920/3	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-13920/4	Lab Control Sample Dup	Total/NA	Water	8021B	

#### Analysis Batch: 13998

890-1664-8	MW-16	Iotal/NA	Water	8021B		
MB 880-13920/8	Method Blank	Total/NA	Water	8021B		8
LCS 880-13920/3	Lab Control Sample	Total/NA	Water	8021B		
LCSD 880-13920/4	Lab Control Sample Dup	Total/NA	Water	8021B		9
Analysis Batch: 13998	<b>I</b>					10
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-1664-3	MW-7A	Total/NA	Water	8021B		
890-1664-9	MW-1A	Total/NA	Water	8021B		
890-1664-10	MW-19	Total/NA	Water	8021B		
MB 880-13998/70	Method Blank	Total/NA	Water	8021B		
MB 880-14063/5-A	Method Blank	Total/NA	Water	8021B	14063	4.0
LCS 880-13998/65	Lab Control Sample	Total/NA	Water	8021B		13
LCSD 880-13998/66	Lab Control Sample Dup	Total/NA	Water	8021B		
_						

#### Prep Batch: 14063

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-14063/5-A	Method Blank	Total/NA	Water	5035	

#### Analysis Batch: 14295

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1664-1	MW-15	Total/NA	Water	Total BTEX	
890-1664-2	MW-14	Total/NA	Water	Total BTEX	
890-1664-3	MW-7A	Total/NA	Water	Total BTEX	
890-1664-4	MW-8A	Total/NA	Water	Total BTEX	
890-1664-5	MW-17	Total/NA	Water	Total BTEX	
890-1664-6	MW-18	Total/NA	Water	Total BTEX	
890-1664-7	MW-12	Total/NA	Water	Total BTEX	
890-1664-8	MW-16	Total/NA	Water	Total BTEX	
890-1664-9	MW-1A	Total/NA	Water	Total BTEX	
890-1664-10	MW-19	Total/NA	Water	Total BTEX	

#### Lab Chronicle

Job ID: 890-1664-1

#### Client: Talon/LPE Project/Site: Kimbrough Sweet 8"

#### Client Sample ID: MW-15 Date Collected: 12/01/21 09:00

Date Received: 12/01/21 14:06

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analvst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 22:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID

#### Client Sample ID: MW-14 Date Collected: 12/01/21 10:00 Date Received: 12/01/21 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 23:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID

#### **Client Sample ID: MW-7A**

Date Collected: 12/01/21 11:00

Date Received: 12/01/21 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13998	12/07/21 18:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID

#### **Client Sample ID: MW-8A**

Date Collected: 12/01/21 12:00

#### Date Received: 12/01/21 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/04/21 23:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID

#### Client Sample ID: MW-17

Date Collected: 12/01/21 09:15

Date Received: 12/01/21 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/05/21 00:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID

#### Client Sample ID: MW-18 Date Collected: 12/01/21 09:45 Date Received: 12/01/21 14:06

Г										
	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/05/21 00:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID

- ID: 000 4004 1

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

#### Lab Sample ID: 890-1664-1 Matrix: Water

Lab Sample ID: 890-1664-2

Lab Sample ID: 890-1664-3

Lab Sample ID: 890-1664-4

Lab Sample ID: 890-1664-5

Lab Sample ID: 890-1664-6

## Lab Chronicle

Job ID: 890-1664-1

Matrix: Water

Matrix: Water

Matrix: Water

Matrix: Water

# Lab Sample ID: 890-1664-7

Lab Sample ID: 890-1664-8

Lab Sample ID: 890-1664-9

Lab Sample ID: 890-1664-10

#### Client Sample ID: MW-12 Date Collected: 12/01/21 10:20

Client: Talon/LPE

Date Received: 12/01/21 14:06

Project/Site: Kimbrough Sweet 8"

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		10	5 mL	5 mL	13920	12/05/21 00:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID

#### Client Sample ID: MW-16 Date Collected: 12/01/21 10:50 Date Received: 12/01/21 14:06

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13920	12/05/21 01:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID

#### **Client Sample ID: MW-1A**

Date Collected: 12/01/21 11:10

Date Received: 12/01/21 14:06

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13998	12/07/21 18:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID

#### **Client Sample ID: MW-19**

Date Collected: 12/01/21 12:05

#### Date Received: 12/01/21 14:06

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	13998	12/07/21 19:03	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			14295	12/08/21 12:45	AJ	XEN MID

Laboratory References:

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

Job ID: 890-1664-1

# Accreditation/Certification Summary

Clie	ent:	Talon	/LPE			
Pro	ject	/Site:	Kimbro	bugh	Sweet	8'

#### arv

Project/Site: Kimbroug	h Sweet 8"				
Laboratory: Eurof Unless otherwise noted, all a			reditation/certification below.		3
Authority	Р	rogram	Identification Number	Expiration Date	
Texas		ELAP	T104704400-21-22	06-30-22	5
the agency does not of	ffer certification.	-	ied by the governing authority. This list ma	ay include analytes for which	6
Analysis Method	Prep Method	Matrix	Analyte		
Total BTEX		Water	Total BTEX		
					8
					9
					10
					13

Eurofins Xenco, Carlsbad

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Project/Site: Kimbrough Sweet 8"

#### **Method Summary**

#### Job ID: 890-1664-1

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

#### Protocol References:

Client: Talon/LPE

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates. TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

# Sample Summary

Client: Talon/LPE Project/Site: Kimbrough Sweet 8"

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1664-1	MW-15	Water	12/01/21 09:00	12/01/21 14:06	N/A
890-1664-2	MW-14	Water	12/01/21 10:00	12/01/21 14:06	N/A
890-1664-3	MW-7A	Water	12/01/21 11:00	12/01/21 14:06	N/A
890-1664-4	MW-8A	Water	12/01/21 12:00	12/01/21 14:06	N/A
890-1664-5	MW-17	Water	12/01/21 09:15	12/01/21 14:06	N/A
890-1664-6	MW-18	Water	12/01/21 09:45	12/01/21 14:06	N/A
890-1664-7	MW-12	Water	12/01/21 10:20	12/01/21 14:06	N/A
890-1664-8	MW-16	Water	12/01/21 10:50	12/01/21 14:06	N/A
890-1664-9	MW-1A	Water	12/01/21 11:10	12/01/21 14:06	N/A
890-1664-10	MW-19	Water	12/01/21 12:05	12/01/21 14:06	N/A

Job ID: 890-1664-1

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Salo     Company Name:     LPC II/C     Canyon II/C     Bar of Project       Salo     Finalt:     Address:     Aldress     Reporting: Level II     Reporting: Level II     Project       Salo     Finalt:     Address:     Aldress     Reporting: Level II     Level III     Project       Salo     Due Date     Project     No     Project     No     Project     No       Salo     Due Date     Project     No     Project     No     Project     No       Salo     Due Date     Project     No     Project     No     Project     No       Salo     Due Date     Project     Project     No     Project     No     Project     No       Salo     Due Date     Project     Project     No     Project     No     Project     No       Salo     Due Date     Project     Project     Project     No     Project     No       Salo     Due Date     Project     Project     Project     No     Project     No       Salo     Due Date     Project     Project     Project     No     Project     No       Salo     Project     Project     Project     Project     Project     No     No		mar
roject: : Level II    Level III    Pies: EDD    ADaP les: EDD    ADaP    ADAP		Relinquished by: (Signature)
roject: : Level II [] Level III [] Pies: EDD [] ADaP les: EDD [] ADaP - AD	rge of \$85,00 will be applied to each project and a charge of \$5 nor each simple sub-	arofins Xenco. A minimum chai
oject: Level II   Level III   Pro- es: EDD   ADaP es: FDD   ADaP ADaP I K Se Ag SiO <sub>2</sub> Na Sr Hg: 1631 / 245.1 /	and relinquishment of samples constitutes a valid purchase order from client compa able only for the cost of samples and shall not assume any responsibility for any losse	ce: Signature of this document rvice. Eurofins Xenco will be li
Company Name:     I HC     Curve       BALD     Cmpany Name:     I HC     Curve       Company Name:     I HC     Curve     State of Poiset       Since of Poiset     I Inter Company     State of Poiset     Reporting:     Level II     Level III     Poist       No     Vertice     Inter Adverted by     Poist     Adverted by     Poist     ADverted by     Poist	Total 200.7 / 6010         200.8 / 6020:         8RCRA         13PPM         Texas 11           Circle Method(s) and Metal(s) to be analyzed         TCLP / SPLP 6010 : 8R	Total 200.7 / 6010 rcle Method(s) and
Ball O     Company Name:     Clance:     Attr:     Cannille     Ervant     State of Project:     Reporting:     Level II     Level III     Program:     Beporting:     Level III     Program:     Abap       8'     Turn Around     It     It     Attr:     Conv     Fallow     Program:     Convoir     Abap       8'     Turn Around     Pre     Attr:     Conv     Fallow     Pre     Abap       0     Due Date:     Due Date:     Fallow     Pre     ANALYSIS REQUEST     Abap       7'     Transit the day received by 4300m     Pre     ANALYSIS REQUEST     Abap       7'     Transit the day received by 4300m     Pre     ANALYSIS REQUEST     Abap       7'     Transit the day received by 4300m     Pre     AnALYSIS REQUEST     Abap       10     Due Date:     Yes No     Parameters     Abap     Abap       10:00     N/A     Gab/     off EC     State of Project:     Abap       10:00     N/A     Gab/     off EC     State of Project:     Abap       10:00     N/A     Gab/     off EC     State of Project:     Abap       10:00     N/A     Gab/     off EC     State of Project:     Abap       10:00     N/A	////2:05///	mw-19
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	11:10	L 1
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1 02:00	
Company Name:     I / DC     I	1 / 10:20 / 1	MW-12
Company Name:     Life Life Life Life Life Life Life Life		MU-1 1
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	)   0'12 \ )	M W W
Company Name:     Lipt Linx       Company Name:     Lipt Linx       Clay Clay State ZIP:     Address:       Email:     Address:       Address:     Altra:       Camille Bryant     State of Project:       State of Project:     Reporting: Level II       Prest     Altra:       Due Date:     Prest       No     Wet Ice:       Ves No     Ves No       Moneter ID:     VWM Goal       Parameters     BOO ZIB       Mo     Vet Ice:       Ves No     Parameters       State of Project:     ADap       Prest     Altra: State of Project:       No     Wet Ice:       Ves No     Parameters       No     Wet Ice:       Ves No     Parameters       State of Project:     ADap       Parameters     Altra: State of Project:       No     Wet Ice:     Ves No       Parameters     BOO ZIB       No     Parameters       Sampled     Depth       Grab     Fot       No     Parameters       BOO ZIA     BOO ZIA       No     Parameters       BOO ZIA     A       No     Parameters       BOO ZIA     A <td></td> <td>A A</td>		A A
Company Name:       If the life investigation of the life investigatinterviewinde life investigation of the life investinterviewind of	11:00	MLI-JA
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1, 00:01 1,	P1-14
Company Name:       I PC I I PC       Address:       A II PC I PC       State of Project:         State of Project:       Email:       A d k inst (k inst (k inst (k inst (k inst k))))       A d k inst (k inst (k inst k))       A d k inst (k inst k)       A d k inst (k inst k) <td>9:00 N/A</td> <td>MW-15</td>	9:00 N/A	MW-15
Company Name:       I + C	Matrix Date Time Depth	Sample Identification
Company Name:       LTPC II //C         Address:       Attra : Camille Bryant       State of Project:         Ball O       City, State ZIP:       Casmille Bryant       State of Project:         Email:       Address:       Attra : Camille Bryant       Reporting: Level II    Level II    Deliverables:       EDD    ADaPT    Other:         Brouvine       Image:       Alon /pc. Com       ANALYSIS REQUEST       Preservative C         No       Wet Ice:       Yes No       Al B       None: NO       Di         Andress:       Freeservative C       ANALYSIS REQUEST       Preservative C       None: NO       Di         No       Wet Ice:       Yes No       B       B       H, H, PO 4; HP       H, PO 4; HP       H, PO 4; HP         NaHSO 4; NABIS       Al A       NaHSO 4; NABIS       NaHSO 3; NASO 3       Zn Acetate+MaOH: Z       Na Acetate+MaOH: Z	Corrected Temperature: 1.0	Total Containers:
Company Name:       Lipc Linc       Program:       Ostrost       Program:       Ostrost <td>No N/A Temperature Reading:</td> <td>Sample Custody Seals:</td>	No N/A Temperature Reading:	Sample Custody Seals:
Company Name:       Lipc Linc       Program:       Ostrost       Ostrost       Ostrost <td>Correction Factor:</td> <td>Cooler Custody Seals:</td>	Correction Factor:	Cooler Custody Seals:
Company Name:       Lipc Linc       Program:       Ostrost       Other:       O	Thermometer ID:	Samples Received Intact:
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Kes No Wet Ice:	SAMPLE RECEIPT
Company Name:       Lipe Line       Program:       Ostrost       Program:       Ostrost </td <td>2000-10757</td> <td></td>	2000-10757	
Company Name:       Lipc Linc       Program:       Ostrost       Program:       Ostrost </td <td>11+ Pana</td> <td>Sampler's Name: Ro</td>	11+ Pana	Sampler's Name: Ro
Company Name:       Lipc Linc       Program:       Ostrosi         Ostrosi         Ostrosi         Ostrosi         Ostrosi         Ostrosi         Ostrosi         <	Lea Contraction Dille Date:	
Company Name:       Lipc Linc       Program:       Ostrosic       Ostrosic       Ostrosic	<b>X</b> Routine	ver:
Company Name:       Lipe Inc.       Program:       Ostrost       Program:       Ostrost <td></td> <td>Project Name:</td>		Project Name:
Company Name:       Lipc Linc       Program:       Usi/Psi         P	1-4835 Email:	
AHD: Camille Bryant State of Project:	512 NM 88210	e ZIP:
	Texas	
Departament Istract DBD Brownfalds BRC	LPE	
S Bill to: (If different) Plains All American Work Order Comments	David Adkins Bill to: (If differen	Project Manager:
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334       WOR CICCL INC.         EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296       Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199         www.xenco.com       Page / of /		
Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300	Environment Testing	<ul> <li>eurofins</li> </ul>

12/8/2021

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Job Number: 890-1664-1

List Source: Eurofins Xenco, Carlsbad

## Login Sample Receipt Checklist

Client: Talon/LPE

Login Number: 1664 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	

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-1664-1

List Source: Eurofins Xenco, Midland

List Creation: 12/02/21 11:44 AM

## Login Sample Receipt Checklist

Client: Talon/LPE

Login Number: 1664 List Number: 2 Creator: Lowe, Katie

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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 92062

CONDITIONS			
Operator:	OGRID:		
PLAINS MARKETING L.P.	34053		
333 Clay Street Suite 1900	Action Number:		
Houston, TX 77002	92062		
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)		

#### CONDITIONS

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