

2022 Annual Groundwater Monitoring Report

REVIEWED

By Mike Buchanan at 4:00 pm, May 17, 2023

Review of the 2022 Annual Groundwater Monitoring Report for DCP Plant to Lea Station 6-Inch #2: **Content Satisfactory**

1. Continue to recover hydrocarbon-impacted groundwater monthly for wells MW-1 through MW-5
2. Recovery by SVE and monthly emission sampling to continue for MW-1.
3. Continue sampling for BTEX in MW-1 through MW-8 on an annual basis.
4. Submit the 2023 Groundwater Monitoring Report to OCD by April 1, 2024.

Plains All American Pipeline, LP DCP Plant to Lea Station 6-Inch #2

Lea County, New Mexico

Unit Letter "F", Section 31, Township 20 South, Range 37 East

Latitude 32.5316667 North, Longitude 103.2911111 West

Plains SRS #: 2009-039

NMOCD Reference #: 1RP-2136

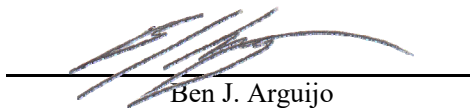
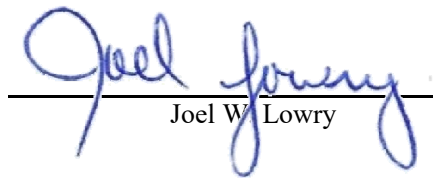
NMOCD Incident ID #: nAPP2109730917

Prepared By:

Etech Environmental & Safety Solutions, Inc.

6309 Indiana Ave., Ste. D

Lubbock, TX 79413


Ben J. Arguijo
Joel W. Lowry

Midland • San Antonio • Lubbock • Hobbs • Lafayette

TABLE OF CONTENTS

1.0 INTRODUCTION & SITE DESCRIPTION.....	1
2.0 BACKGROUND INFORMATION.....	1
3.0 FIELD ACTIVITIES.....	3
3.1 Product Recovery.....	3
3.2 Groundwater Recovery.....	3
3.3 Groundwater Monitoring.....	4
4.0 LABORATORY RESULTS.....	4
5.0 SUMMARY.....	7
6.0 ANTICIPATED ACTIONS.....	8
7.0 LIMITATIONS.....	9
8.0 DISTRIBUTION.....	10

FIGURES

Figure 1 – Site Location Map

Figure 2A – Inferred Groundwater Gradient Map – 1Q2022

Figure 2B – Inferred Groundwater Gradient Map – 2Q2022

Figure 2C – Inferred Groundwater Gradient Map – 3Q2022

Figure 2D – Inferred Groundwater Gradient Map – 4Q2022

Figure 3A – Groundwater Concentration Map – 1Q2022

Figure 3B – Groundwater Concentration Map – 2Q2022

Figure 3C – Groundwater Concentration Map – 3Q2022

Figure 3D – Groundwater Concentration Map – 4Q2022

TABLES

Table 1 – Groundwater Elevation & PSH Thickness Summary

Table 2 – Groundwater BTEX Concentration Analytical Summary

Table 3 – Air Emission Analytical Summary - BTEX & TPH

Table 4 – MW-1 SVE System Operation & PSH Thickness & Recovery Summary

Table 5 – MW-5 Gauging & BTEX Impacted Groundwater Recovery Summary

Table 6 - Concentrations of PAH in Groundwater Summary

APPENDICES

Appendix A – Laboratory Analytical Reports

1.0 INTRODUCTION & SITE DESCRIPTION

Etech Environmental & Safety Solutions (Etech), on behalf of Plains All American Pipeline, LP (Plains), has prepared this *2022 Annual Groundwater Monitoring Report* for the DCP Plant to Lea Station 6" #2 Release Site in accordance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1st of each year.

The legal description of the DCP Plant to Lea Station 6" #2 Release Site is Unit Letter "F" (SE/NW), Section 31, Township 20 South, Range 37 East, in Lea County, New Mexico. The property affected by the release is owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO). The geographic coordinates of the Release Site are 32.5316667° North latitude and 103.2911111° West longitude. A "Site Location Map" is provided as Figure 1.

2.0 BACKGROUND INFORMATION

On February 12, 2009, Plains discovered a crude oil release from a six-inch (6") steel pipeline. During initial response activities, Plains installed a temporary clamp on the pipeline to mitigate the release. Approximately 25 barrels (bbls) of crude oil was released from the pipeline, resulting in a surface stain measuring approximately 10 feet (ft.) in width and 12 ft. in length. Plains notified the NMOCD Hobbs District Office of the release, and a "Release Notification and Corrective Action" (Form C-141) was submitted. The cause of the release was attributed to external corrosion of the pipeline.

On February 17, 2009, following initial response activities, excavation of hydrocarbon-impacted soil began at the Site. Excavated soil was stockpiled on-site on a plastic liner to mitigate the potential leaching of contaminants into the vadose zone. Approximately 2,700 cubic yards (yd³) of soil was stockpiled on-site during excavation activities. The final dimensions of the excavation were approximately 66 ft. in width, approximately 80 ft. in length, and approximately 15 ft. in depth. Upon completion of the excavation activities, confirmation soil samples were collected from the excavation and stockpiles. Review of laboratory analytical results indicated soil samples collected from the excavation and stockpiles exhibited concentrations less than NMOCD regulatory standards.

On April 15, 2009, a soil boring (SB-1) was advanced at the Release Site to evaluate the vertical extent of soil impact. During the advancement of the soil boring, groundwater was encountered at approximately 76 ft. below ground surface (bgs). A temporary casing was installed in the soil boring to allow a groundwater sample to be collected for analysis. During the collection of the groundwater sample, a measurable thickness of PSH was observed on the groundwater. Plains immediately notified NMOCD representatives in the Hobbs District Office and the NMOCD Environmental Bureau (Santa Fe) of the impact to groundwater at the Release Site. On April 16, 2009, soil boring SB-1 was converted to 4-inch monitor well (MW-1).

On June 29, 2009, three (3) additional monitor wells (MW-2, MW-3, and MW-4) were installed to evaluate the status of the groundwater at the Site. Monitor well MW-2 is located approximately

135 ft. to the northwest (up-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 90 ft. bgs. Monitor well MW-3 is located approximately 80 ft. to the southwest (cross-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 90 ft. bgs. Monitor well MW-4 is located approximately 115 ft. to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 88 ft. bgs. Subsequent gauging determined that PSH was not present in monitor wells MW-2, MW-3, or MW-4.

On August 25, 2009, a 20-mil polyurethane liner was installed on the floor of the excavation. Monitor well MW-1, located within the excavation, was extended to the top of the excavation using a 4-inch diameter PVC riser. The riser was fitted with a 40-mil boot, which was chemically welded to the 20-mil liner to ensure impermeability of the liner. The liner was cushioned by a 6-inch layer of sand installed above and below the liner to protect the liner from damage during backfilling. The excavation was backfilled with the stockpiled soil and compacted in 12-inch lifts. The disturbed areas were contoured to fit the surrounding topography and seeded with an NMSLO-approved seeding mixture. Supplemental seeding occurred on October 12, 2010.

On January 24, 2011, one (1) additional monitor well (MW-5) was installed to further monitor the down-gradient migration of the PSH plume. Monitor well MW-5 is located approximately 50 ft. to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 95 ft. bgs. PSH was not detected in monitor well MW-5. Laboratory analytical results of soil samples collected during the installation of monitor well MW-5 indicated benzene, BTEX, and TPH concentrations were less than NMOCD regulatory standards in all submitted soil samples.

On September 10, 2013, two (2) additional monitor wells (MW-6 and MW-7) were installed to further monitor the down-gradient migration of the dissolved-phase plume and to delineate the horizontal extent of PSH. Monitor well MW-6 is located approximately 125 ft. to the east-southeast (cross-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 95 ft. bgs. Monitor well MW-7 is located approximately 175 ft. to the southeast (down-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 100 ft. bgs. Laboratory analytical results of soil samples collected during the installation of monitor wells MW-6 and MW-7 indicated benzene, BTEX, and TPH concentrations were less than NMOCD regulatory standards in all submitted soil samples. PSH was not detected in monitor wells MW-6 or MW-7.

On August 18, 2020, one (1) additional monitor well (MW-8) was installed pursuant to the Work Plan dated November 25th, 2019. Monitor well MW-8 is located approximately 125 ft. to the south (cross-gradient) of monitor well MW-1. The monitor well was installed to a total depth of approximately 100 ft. bgs.

In February 2023, Etech, at the request of Plains, assumed project management and oversight responsibilities for groundwater remediation activities at the DCP Plant to Lea Station 6-Inch #2 Site.

Currently, a total of eight (8) monitor wells are located at the DCP Plant to Lea Station 6-Inch #2 Release Site. Monitor wells MW-2 through MW-8 are gauged and sampled on a quarterly schedule, while monitor well MW-1 is gauged monthly but not sampled due to the presence of PSH.

3.0 FIELD ACTIVITIES

3.1 Product Recovery

A measurable thickness of PSH was detected in monitor well MW-1 during the initial site investigation. Manual recovery of PSH from MW-1 commenced in April 2009, and approximately 6,225 gallons (148.2 barrels) of PSH has been recovered since that time. Approximately 45 gallons of hydrocarbon-impacted groundwater and less than one (1) gallon (approximately 0.9 fluid ounces) of PSH were recovered from monitor well MW-1 during the 2022 reporting period. The maximum PSH thickness measured in monitor well MW-1 during the reporting period was 0.01 feet on May 19, 2022. No measurable thickness of PSH was detected in subsequent monthly recovery events. Groundwater gauging and PSH recovery data for monitor well MW-1 is summarized in Table 4.

All recovered fluids were disposed of at an NMOCD-approved disposal facility.

On July 18, 2012, a Mobile Dual-Phase Extraction (MDPE) unit was installed on monitor well MW-1 by Talon LPE. The MDPE unit was shared with the nearby Release Site known as DCP Plant to Lea Station 6-Inch Sec. 31 (NMOCD Incident ID # nAPP2109730917), and the location of the unit was alternated quarterly. As of July 2017, an estimated 7,901 equivalent gallons (188 bbls) of PSH had been recovered from monitor well MW-1 by MDPE.

On July 19, 2017, the MDPE unit was replaced with a Soil Vapor Extraction (SVE) unit which was permanently installed on monitor well MW-1. Since August 2017, monthly emissions samples were collected to ensure compliance with New Mexico Environment Department (NMED) Air Quality Bureau (AQB) Action Levels. Effluent air samples are collected from the exhaust port of the SVE system during each monthly recovery event. Emission mass calculations resulted in a slight decrease in average emissions of TPH from 8.034 tons/year in 2021 to 5.74 tons/year in 2022. Average emission volume also decreased from 7.433 gal/day in 2021 to 5.31 gal/day in 2022. Effluent air samples were below the AQB criteria of 10 tons of TPH per year throughout the 2022 reporting period. Laboratory analytical results for effluent air samples are summarized in Table 3.

3.2 Groundwater Recovery

Manual recovery of hydrocarbon impacted groundwater from monitor well MW-5 commenced on January 22, 2016. Approximately 45 gallons (1.07 bbls) of impacted groundwater was recovered from monitor well MW-5 during the 2022 reporting period. Approximately 2,482 gallons (59.1 bbls) of impacted groundwater was recovered since 2016. Groundwater gauging and PSH recovery data for monitor well MW-5 is summarized in Table 5.

All recovered fluids were disposed of at an NMOCD-approved disposal facility.

3.3 Groundwater Monitoring

The on-site monitor wells were gauged and sampled by a previous environmental contractor on March 14 (1Q2022), June 14 (2Q2022), and September 7 (3Q2022). Due to a change in project management and oversight, no groundwater sampling was conducted during the fourth (4th) quarter of 2022. Etech assumed oversight responsibilities for the Site in February 2023 and conducted a groundwater monitoring event (4Q2022) on February 9, 2023 (the earliest available opportunity) in order to assess the levels and extent of PSH and dissolved-phase constituents in the groundwater at the Site. Monitor well MW-6 was not able to be sampled during the February 9, 2023, sampling event. The monitor well was sampled during a subsequent site visit on February 17, 2023. The groundwater monitoring events consisted of measuring static water levels in the on-site monitor wells (MW-1 through MW-8), checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Purged water was placed into a polystyrene aboveground storage tank (AST) and disposed of at an NMOCD-approved disposal facility.

Groundwater samples were collected utilizing low-flow sampling equipment, including a bladder pump and multi-parameter meter. Prior to sample collection, readings on the multi-parameter meter were recorded for a minimum of four (4) cycles of five (5) minutes each. Each groundwater sample collected was placed in laboratory-supplied containers appropriate to the analysis requested and placed on ice in a cooler.

An annual monitoring event for polycyclic aromatic hydrocarbons (PAH) was conducted on March 14, 2022. Based on sampling criteria provided by the NMOCD, monitor wells MW-2 and MW-8 were subject to annual PAH monitoring. PAH sampling requirements for the monitor wells had been met in years prior. However, all on-site monitor wells sampled during the 4th quarter of 2020 were inadvertently analyzed for PAH. The resulting analyses indicated that none of the monitor wells sampled during the 4th quarter of 2020 exceeded PAH Action Levels established by Section 20.6.2.3103 of the New Mexico Administrative Code (NMAC). In an effort to adhere to the requirement for two (2) consecutive years of PAH concentrations below action levels set forth by the NMOCD, monitor wells MW-2 through MW-8 were sampled during the first quarter of 2022 (1Q2022). A summary of PAH analyses is provided as Table 6.

Locations of the groundwater monitor wells and the inferred groundwater elevations, which were constructed from measurements collected during the 2022 quarterly sampling events, are depicted in Figures 2A through 2D. With the exception of the gradient map from the 3Q2022 monitoring event, the maps indicate a general groundwater gradient of approximately 0.002 feet/foot to the south-southeast as measured between monitor wells MW-2 and MW-7. Groundwater elevation and PSH thickness data is summarized in Table 1.

4.0 LABORATORY RESULTS

Groundwater samples collected from the on-site monitor wells during the quarterly and annual monitoring events were delivered to Eurofins Environment Testing South Central, LLC, in Midland, Texas, for determination of chloride, BTEX, and/or PAH constituent concentrations by

Environmental Protection Agency (EPA) Methods 300, SW846-8021b, and SW846 8270C, respectively. A summary of laboratory analytical results is presented in Table 2. A summary of PAH constituent concentrations is provided in Table 6. "Groundwater Concentration" maps are provided as Figures 3A through 3D. Laboratory analytical reports are provided as Appendix A.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in Section 20.6.2.3103 of the New Mexico Administrative Code (NMAC).

Monitor well MW-1

Monitor well MW-1 was not sampled during 1Q2022 due to the presence of PSH. The monitor well was inadvertently not sampled in 2Q2022. Quarterly groundwater sampling commenced in 3Q2022. Laboratory analytical results indicated benzene concentrations ranged from 0.0234 mg/L in 3Q2022 to 0.18 mg/L in 4Q2022. Toluene concentrations ranged from less than the appropriate laboratory method detection limit (MDL) in 3Q2022 to 0.0176 mg/L in 4Q2022. Ethylbenzene concentrations ranged from 0.000453 mg/L in 3Q2022 to 0.0778 mg/L in 4Q2022. Total xylene concentrations ranged from 0.00194 mg/L in 3Q2022 to 0.18 mg/L in 4Q2022.

Benzene concentrations exceeded the NMOCD regulatory standard of 0.01 mg/L in 3Q2022 and 4Q2022. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards in all submitted samples.

PAH constituent concentrations in the groundwater sample collected in 4Q2022 were less than New Mexico Water Quality Control Commission (NMWQCC) Drinking Water Standards.

Monitor well MW-2

Laboratory analytical results indicated benzene, ethylbenzene, and total xylene concentrations were both less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples. Toluene concentrations ranged from less than the appropriate laboratory MDL in 1Q2022 and 3Q2022 to 0.000752 mg/L in 2Q2022. Toluene concentrations were less than NMOCD regulatory standards in all submitted samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

Monitor well MW-3

Laboratory analytical results indicated benzene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples. Toluene concentrations ranged from less than the laboratory MDL in 1Q2022 and 3Q2022 to 0.000673 mg/L in 2Q2022. Toluene concentrations were less than NMOCD regulatory standards in all submitted groundwater samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

Monitor well MW-4

Laboratory analytical results indicated benzene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples. Toluene concentrations ranged from less than the appropriate laboratory MDL in 3Q2022 and 4Q2022 to 0.000383 mg/L in 2Q2022. Toluene concentrations were less than NMOCD regulatory standards in all submitted groundwater samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

Monitor well MW-5

Laboratory analytical results indicated benzene concentrations ranged from 0.00177 mg/L in 3Q2022 to 0.622 mg/L in 2Q2022. Toluene concentrations ranged from less than the appropriate laboratory MDL in 1Q2022, 3Q2022, and 4Q2022 to 0.00171 mg/L in 2Q2022. Ethylbenzene concentrations ranged from less than the appropriate laboratory MDL in 3Q2022 to 0.0577 mg/L in 2Q2022. Total xylene concentrations ranged from less than the appropriate laboratory MDL in 1Q2022, 3Q2022, and 4Q2022 to 0.0389 mg/L in 2Q2022.

Benzene concentrations exceeded the NMOCD regulatory standard of 0.01 mg/L in 2Q2022. Toluene, ethylbenzene, and total xylene concentrations were less than NMOCD regulatory standards in all submitted samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

Monitor well MW-6

Laboratory analytical results indicated benzene concentrations ranged from less than the appropriate laboratory MDL in 1Q2022, 3Q2022, and 4Q2022 to 0.000537 mg/L in 2Q2022. Toluene concentrations ranged from less than the appropriate laboratory MDL in 3Q2022 and 4Q2022 to 0.000706 mg/L in 2Q2022. Ethylbenzene and total xylene concentrations were less than the appropriate laboratory MDL in all submitted groundwater samples.

BTEX constituent concentrations were less than NMOCD regulatory standards in all submitted samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

Monitor well MW-7

Laboratory analytical results indicated benzene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples. Toluene concentrations ranged from less than the appropriate laboratory MDL in 3Q2022 and 4Q2022 to 0.000674 mg/L in 1Q2022. Toluene concentrations were less than NMOCD regulatory standards in all submitted groundwater samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

Monitor Well MW-8

Laboratory analytical results indicated benzene, ethylbenzene, and total xylene concentrations were less than the appropriate laboratory MDL and less than NMOCD regulatory standards in all submitted groundwater samples. Toluene concentrations ranged from less than the appropriate laboratory MDL in 2Q2022, 3Q2022, and 4Q2022 to 0.000393 mg/L in 1Q2022. Toluene concentrations were less than NMOCD regulatory standards in all submitted groundwater samples.

PAH constituent concentrations in the annual groundwater sample were less than the appropriate laboratory MDL and less than NMWQCC Drinking Water Standards.

5.0 SUMMARY

This report presents the results of groundwater monitoring activities for the 2022 annual monitoring period. Currently, there are eight (8) groundwater monitor wells (MW-1 through MW-8) on-site. Monitor well MW-1 was not sampled in 1Q2022 due to the presence of PSH in the well, and the monitor well was inadvertently not sampled in 2Q2022. Quarterly sampling of monitor well MW-1 commenced in 3Q2022. Monitor wells MW-2 through MW-8 were gauged and sampled during all four quarters of the monitoring period. The results of these sampling events are summarized above.

Groundwater gauging data collected during the monitoring period indicates a general gradient of approximately 0.002 feet/foot to the south-southeast as measured between monitor wells MW-2 and MW-7.

During the reporting period, approximately 45 gallons of hydrocarbon-impacted groundwater and less than one gallon (approximately 0.9 fluid ounces) of PSH were recovered, by manual recovery, from monitor well MW-1. Approximately 6,225 gallons (148.2 barrels) of PSH has been recovered since manual recovery commenced in April 2009. The maximum PSH thickness measured in MW-1 during the reporting period was 0.01 feet on May 19, 2022. No measurable thickness of PSH was detected in subsequent monthly recovery events. Quarterly groundwater sampling of the well commenced in 3Q2022.

Approximately 45 gallons (1.07 bbls) of impacted groundwater was recovered from monitor well MW-5 during the 2022 reporting period. Approximately 2,482 gallons (59.1 bbls) of impacted groundwater has been recovered since recovery commenced in 2016.

Effluent air samples are collected from the exhaust port of the SVE system during each monthly recovery event. Emission mass calculations resulted in a slight decrease in average emissions of TPH from 8.034 tons/year in 2021 to 5.74 tons/year in 2022. The average emission volume decreased from 7.433 gal/day in 2021 to 5.31 gal/day in 2022. Effluent air samples were below the AQB criteria of 10 tons of TPH per year throughout the 2022 reporting period.

Review of laboratory analytical results from groundwater samples collected during the reporting period indicated benzene concentrations exceeded the NMOCD regulatory standard of 0.01 mg/L in monitor wells MW-1 (3Q2022 and 4Q2022) and MW-5 (2Q2022). Toluene, ethylbenzene, and total xylene, concentrations were less than NMOCD regulatory standards in all submitted groundwater samples. PAH constituent concentrations were less than NMWQCC Drinking Water Standards in each of the annual samples collected from monitor wells MW-1 through MW-8.

6.0 ANTICIPATED ACTIONS

Monitor wells MW-1 through MW-8 will be monitored and sampled quarterly for BTEX. Monitor well MW-1 will be sampled annually for PAH. Results of the 2023 sampling events will be reported in the *2023 Annual Monitoring Report*, which will be submitted to the NMOCD by April 1, 2024.

PAH sampling requirements have been met for monitor wells MW-2 through MW-8. No additional PAH sampling will be conducted from the wells.

Monthly recovery of hydrocarbon-impacted groundwater will continue from monitor wells MW-1 and MW-5 in an effort to control the down-gradient migration of the dissolved-phase plume.

Recovery by SVE and monthly emission sampling will continue from monitor well MW-1.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this *2022 Annual Groundwater Monitoring Report* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains All American Pipeline, LP. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Plains All American Pipeline, LP.

8.0 DISTRIBUTION

Plains All American Pipeline, LP
1106 Griffith Drive
Midland, Texas 79706

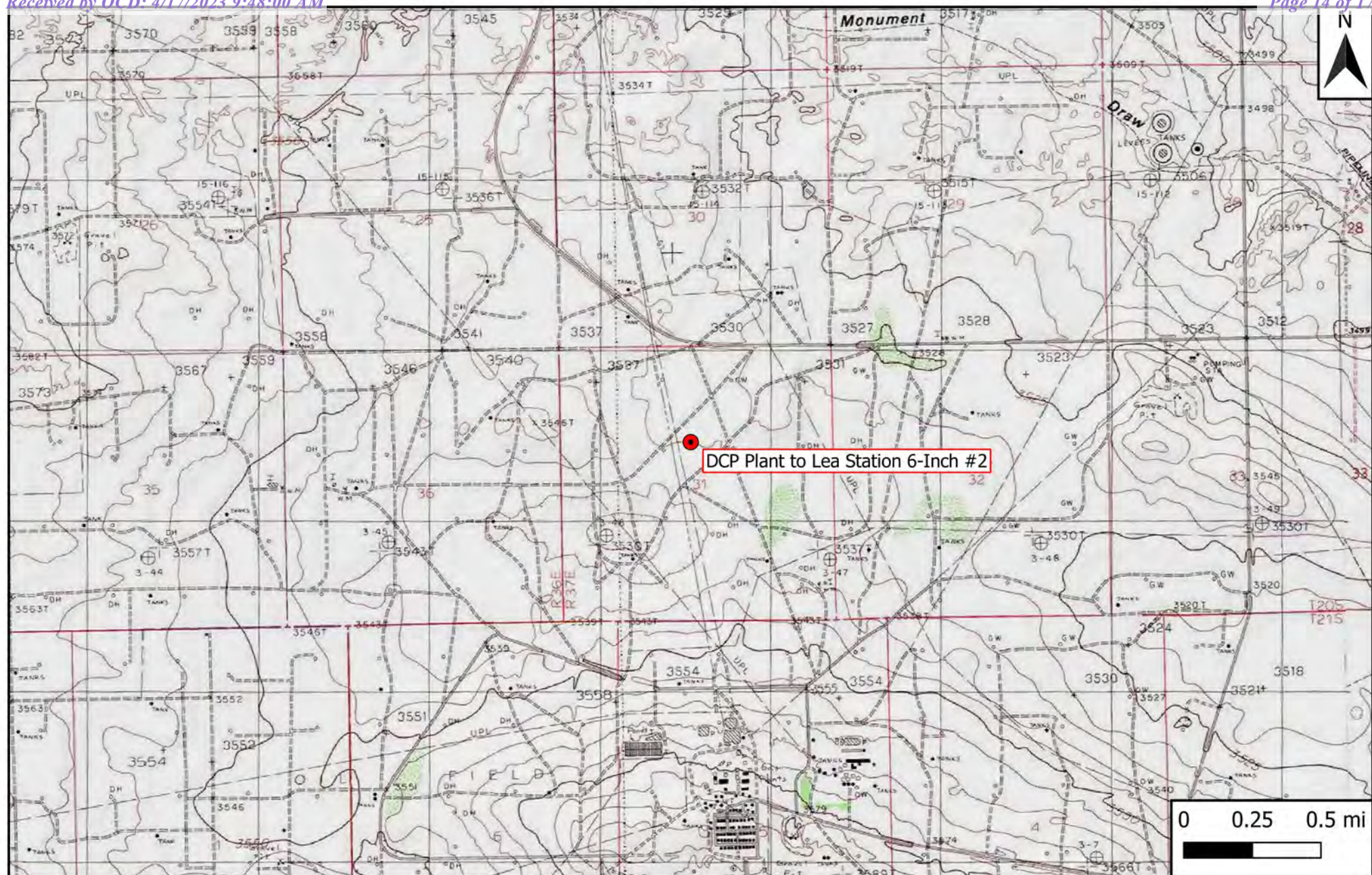
Nelson Velez
Environmental Specialist - Advanced
New Mexico Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

Jeff Dann
Plains All American Pipeline, LP
333 Clay Street, Suite 1600
Houston, Texas 77002

(Electronic Submission)

Figure 1

Site Location Map



Legend

- Site Location

Figure 1

Site Location Map

Plains All American Pipeline, LP
 DCP Plant to Lea Station 6-Inch #2
 GPS: 32.5316667, -103.2911111
 Lea County



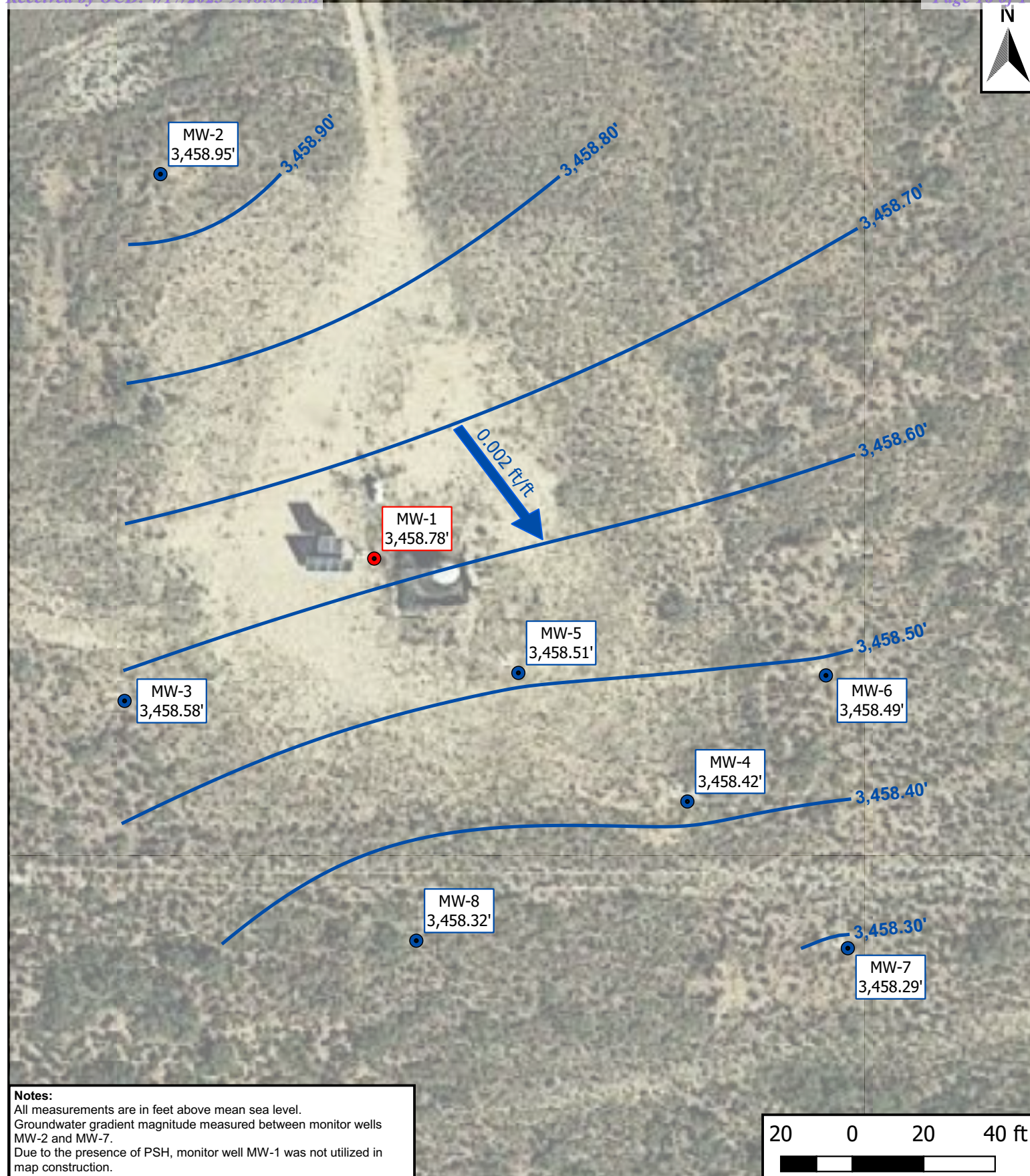
Drafted: bja

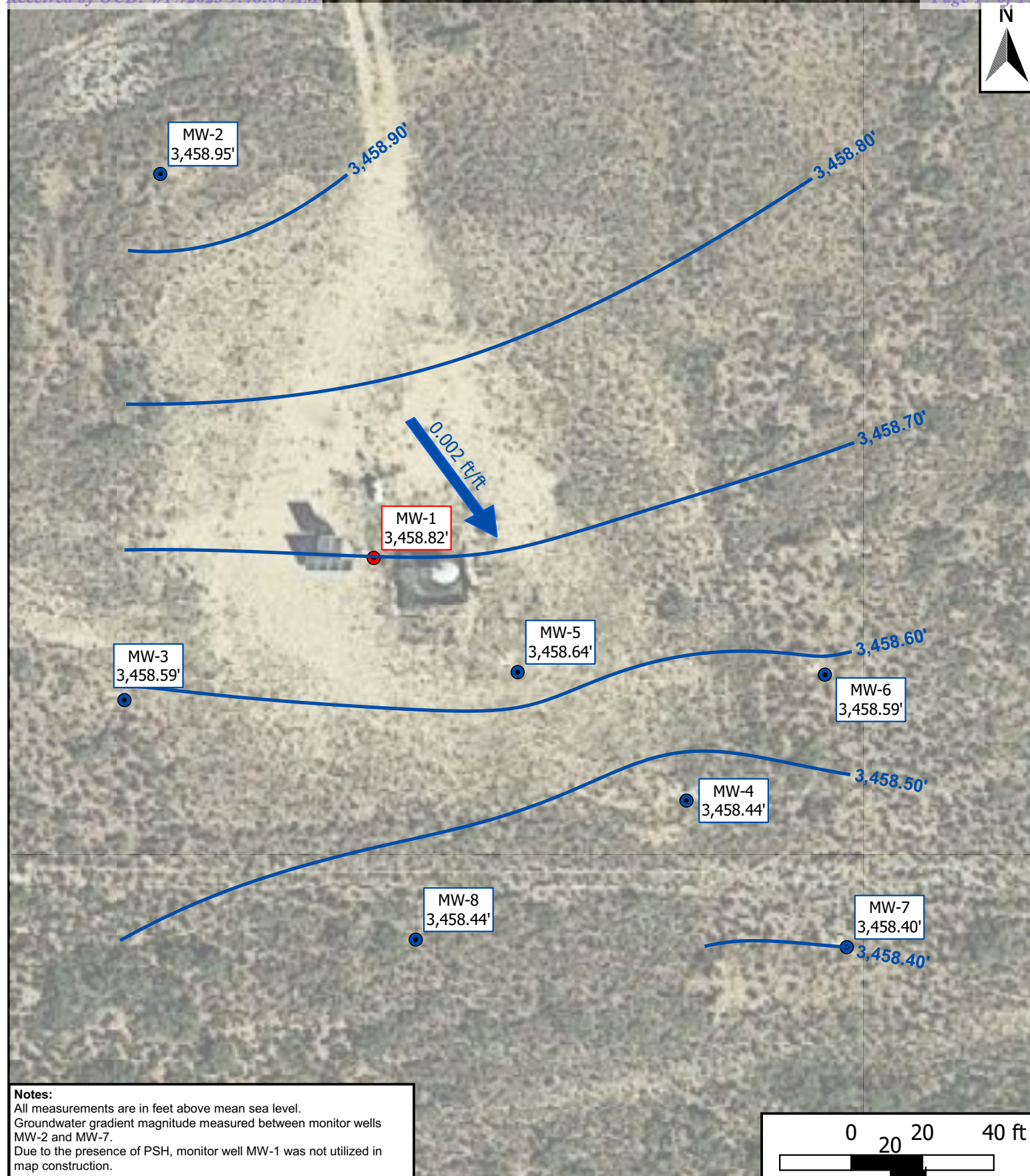
Checked: jwl

Date: 3/28/23

Figures 2A - 2D

Inferred Groundwater Gradient Maps





Legend

- Monitor Well (MW)
- Recovery Well
- Groundwater Elevation Contour (ft)
- ➔ Groundwater Gradient/Magnitude

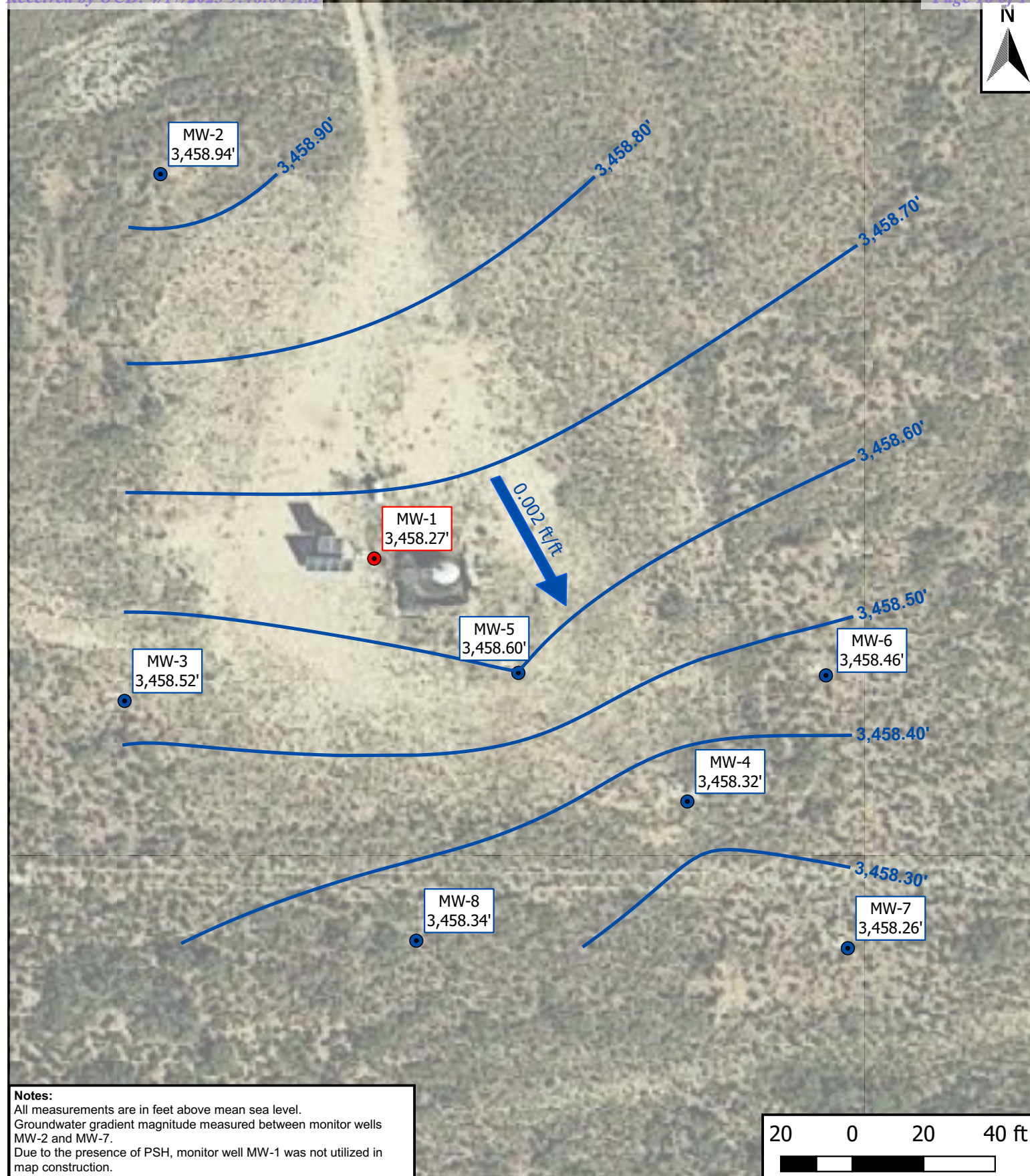
Figure 2B

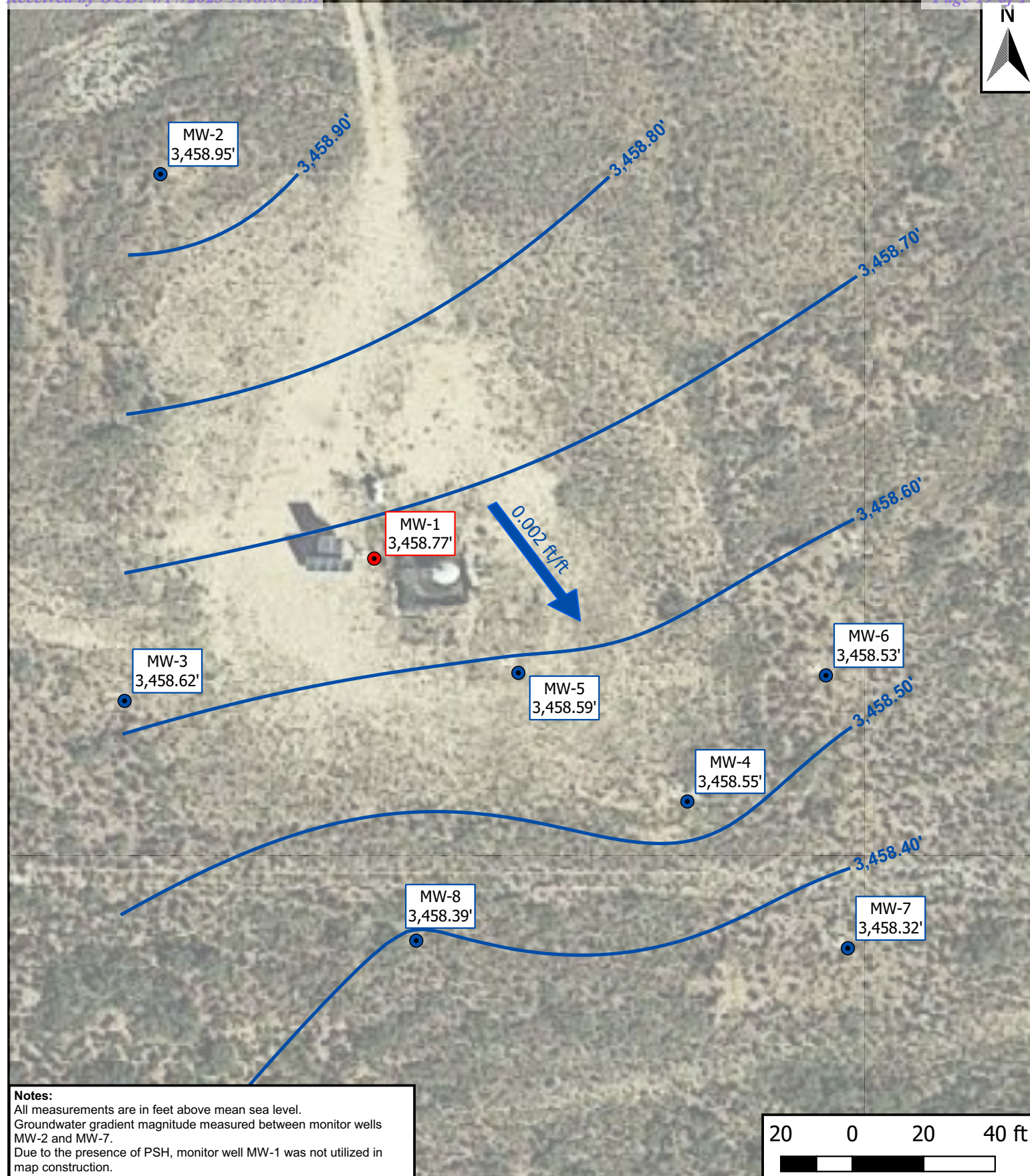
Inferred Groundwater Gradient Map – 2Q2022
 Plains All American Pipeline, LP
 DCP Plant to Lea Station 6-Inch #2
 GPS: 32.5316667, -103.2911111
 Lea County, New Mexico



Checked: jwl
 Drafted: bja

Date: 4/13/23



**Legend**

- Monitor Well (MW)
- Recovery Well
- Groundwater Elevation Contour (ft)
- ➔ Groundwater Gradient/Magnitude

Figure 2D

Inferred Groundwater Gradient Map – 4Q2022
 Plains All American Pipeline, LP
 DCP Plant to Lea Station 6-Inch #2
 GPS: 32.5316667, -103.2911111
 Lea County, New Mexico



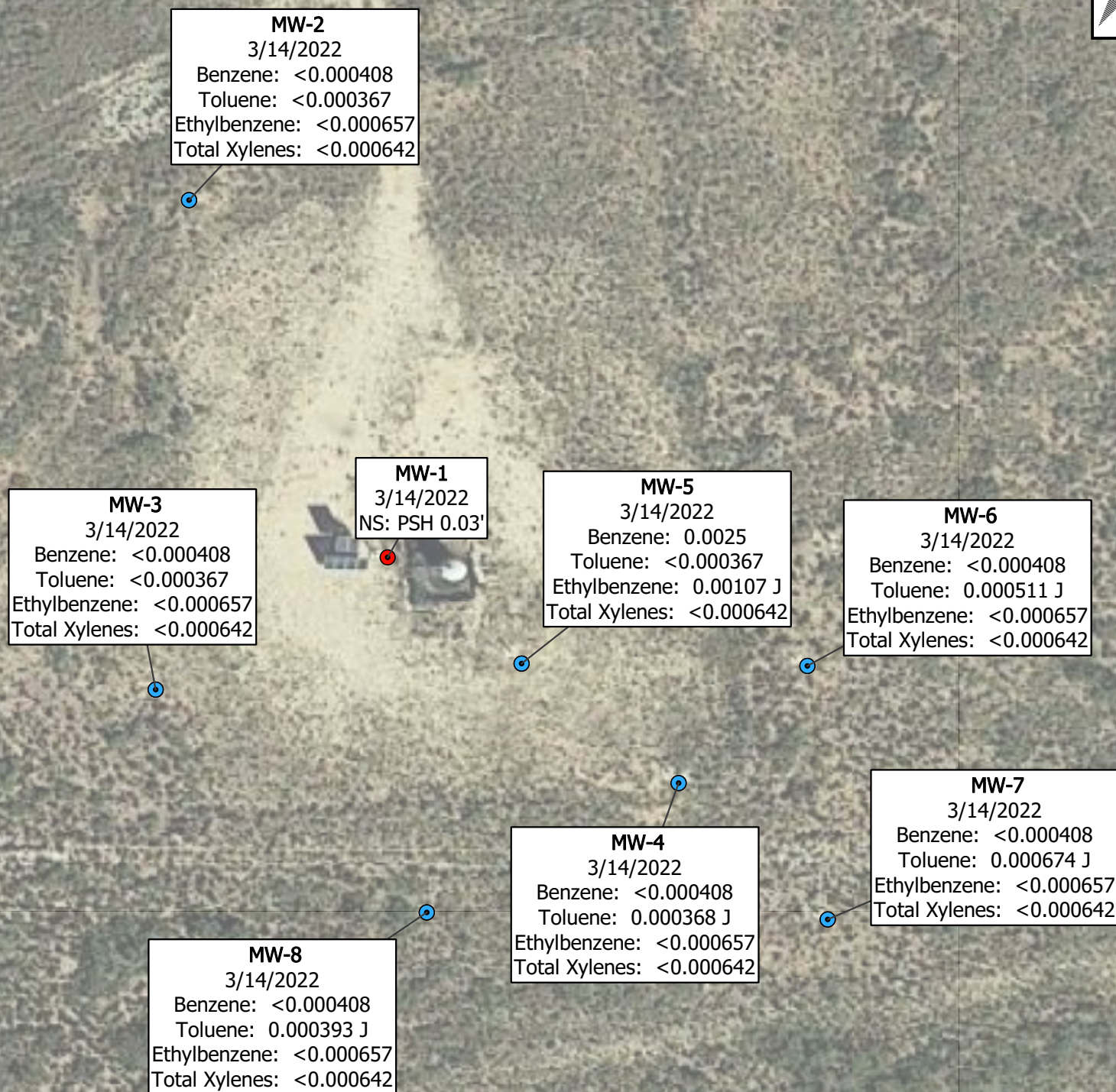
Drafted: bja

Checked: jwl

Date: 4/13/23

Figures 3A - 3D

Groundwater Concentration Maps

**Notes:**

All concentrations are reported in mg/L.
Concentrations in **BOLD** exceed NMOCD regulatory limits.
Monitoring well MW-1 was not sampled due to the presence of PSH.
J: The target analyte was positively identified below the quantitation limit and above the detection limit.
NS: Not Sampled

20 0 20 40 ft

**Legend**

- Monitor Well (MW)
- Recovery Well

Figure 3A

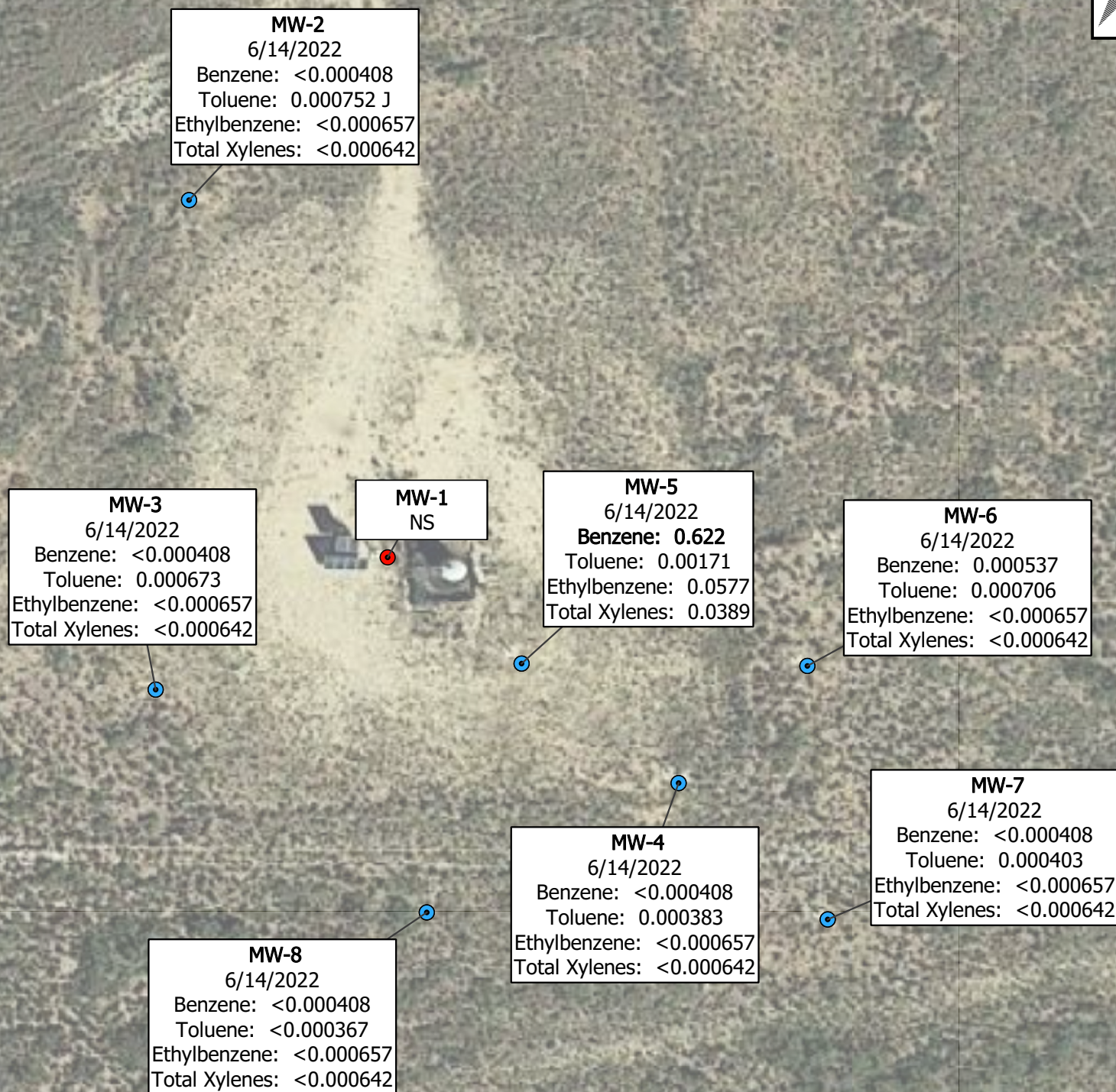
Groundwater Concentration Map – 1Q2022
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch #2
GPS: 32.5316667, -103.2911111
Lea County, New Mexico



Drafted: bja

Checked: jwl

Date: 3/30/23

**Notes:**

All concentrations are reported in mg/L.
Concentrations in **BOLD** exceed NMOC regulatory limits.
Monitoring well MW-1 was not sampled due to the presence of PSH.
J: The target analyte was positively identified below the quantitation limit and above the detection limit.
NS: Monitor well MW-1 was inadvertently not sampled.

20 0 20 40 ft

**Legend**

- Monitor Well (MW)
- Recovery Well

Figure 3B

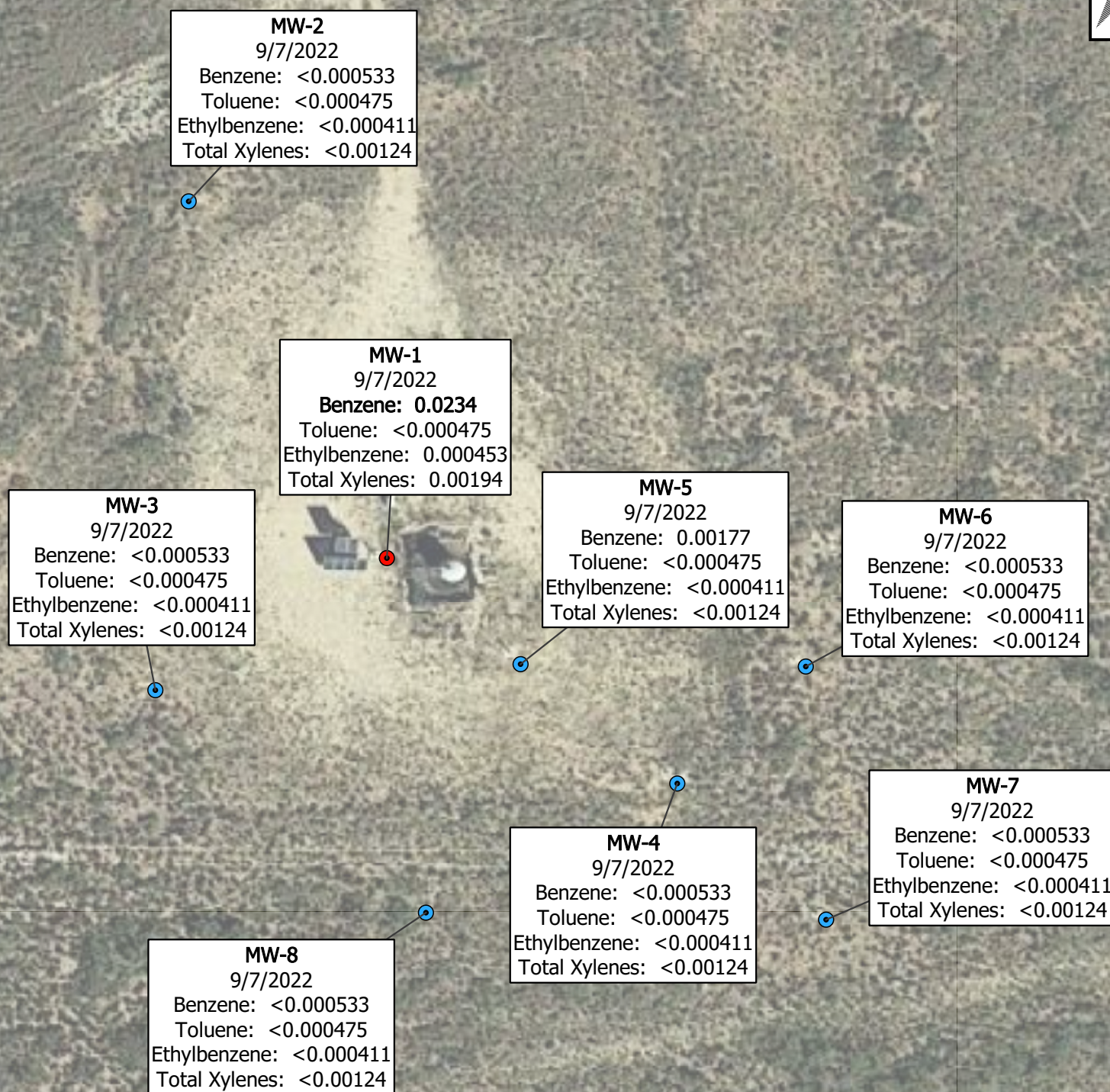
Groundwater Concentration Map – 2Q2022
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch #2
GPS: 32.5316667, -103.2911111
Lea County, New Mexico



Drafted: bja

Checked: jwl

Date: 4/13/23

**Notes:**

All concentrations are reported in mg/L.
Concentrations in **BOLD** exceed NMOCD regulatory limits.

20 0 20 40 ft

**Legend**

- Monitor Well (MW)
- Recovery Well

Figure 3C

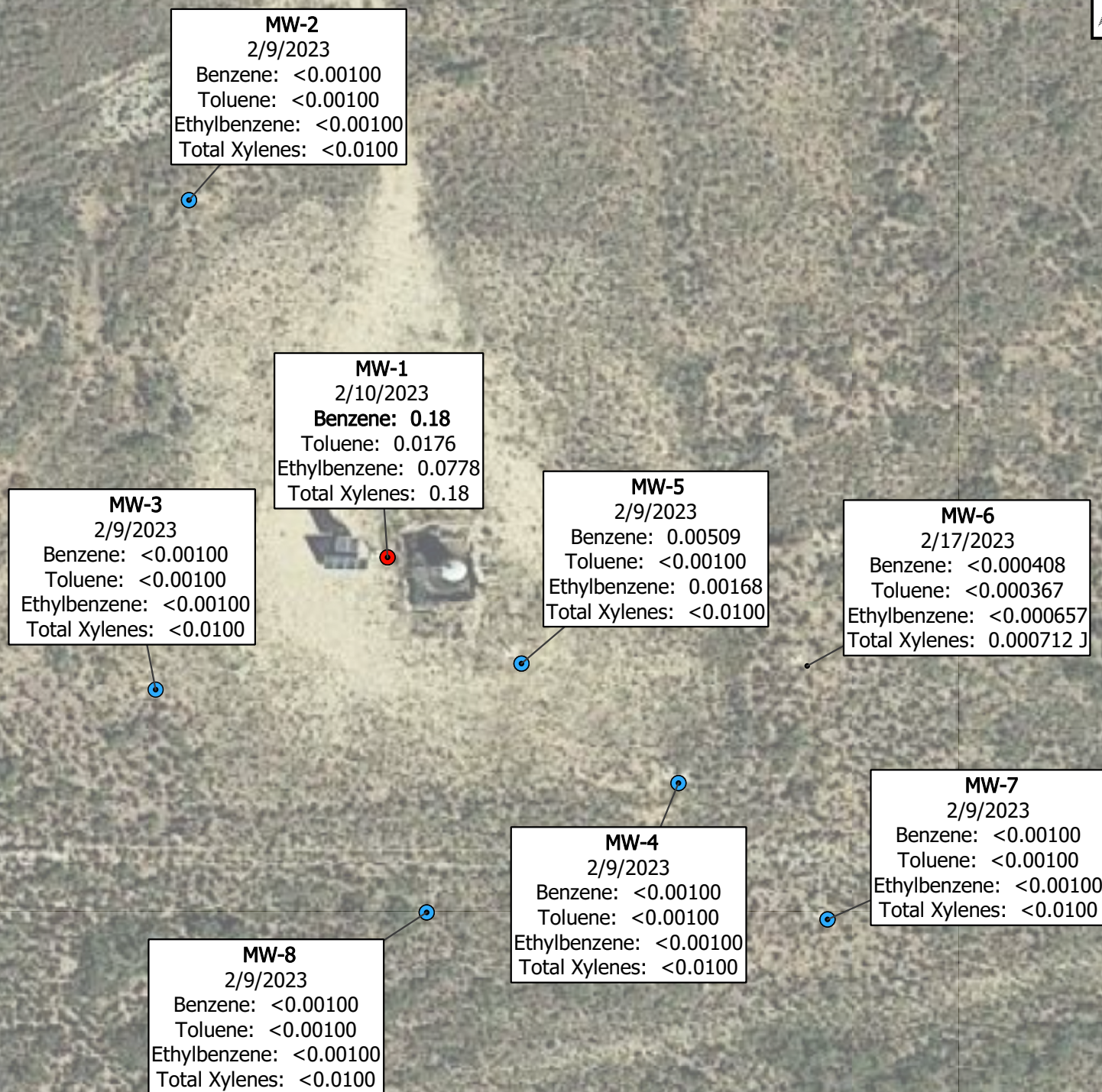
Groundwater Concentration Map – 3Q2022
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch #2
GPS: 32.5316667, -103.2911111
Lea County, New Mexico



Drafted: bja

Checked: jwl

Date: 3/30/23



Notes:
All concentrations are reported in mg/L.
Concentrations in **bold** exceed NMOCD regulatory limits.

20 0 20 40 ft

Legend

- Monitor Well (MW)
- Recovery Well

Figure 3D

Groundwater Concentration Map – 4Q2022
Plains All American Pipeline, LP
DCP Plant to Lea Station 6-Inch #2
GPS: 32.5316667, -103.2911111
Lea County, New Mexico



Drafted: bja

Checked: jwl

Date: 4/14/23

Tables 1 - 6

Table 1
Groundwater Elevation & PSH¹ Thickness Summary

DCP Plant to Lea Station 6-Inch #2
Lea County, New Mexico
Plains SRS #: 2009-039
Etech Project #: 17472
NMOCD² Incident ID #: nAPP2109730917

All measurements are in feet above mean sea level

Monitoring Well (Well Diameter ")	Date Gauged	Top of Casing (TOC) ³ Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH Thickness (feet)	Corrected Groundwater Elevation**
MW-1 (4")	03/11/21	3,540.25	81.43	81.47	0.04	3,458.81
	06/18/21		81.35	81.40	0.05	3,458.89
	09/22/21		81.37	81.41	0.04	3,458.87
	12/15/21		81.42	81.46	0.04	3,458.82
	03/14/22		81.47	81.50	0.03	3,458.78
	06/14/22		81.43	81.43	0.00	3,458.82
	9/6/2022		81.98	81.98	0.00	3458.27
	02/09/23		81.48	81.48	0.00	3458.77
MW-2 (2")	03/11/21	3,538.31	-	79.25	-	3,459.06
	06/18/21		-	79.26	-	3,459.05
	09/22/21		-	79.57	-	3,458.74
	12/15/21		-	79.31	-	3,459.00
	03/14/22		-	79.36	-	3,458.95
	06/14/22		-	79.36	-	3,458.95
	09/06/22		-	79.37	-	3,458.94
	02/09/23		-	79.36	-	3,458.95
MW-3 (2")	03/11/21	3,538.94	-	80.18	-	3,458.76
	06/18/21		-	80.20	-	3,458.74
	09/22/21		-	80.53	-	3,458.41
	12/15/21		-	80.29	-	3,458.65
	03/14/22		-	80.36	-	3,458.58
	06/14/22		-	80.35	-	3,458.59
	09/06/22		-	80.42	-	3,458.52
	02/09/23		-	80.32	-	3,458.62
MW-4 (4")	03/11/21	3,539.67	-	81.11	-	3,458.56
	06/18/21		-	81.10	-	3,458.57
	09/22/21		-	81.23	-	3,458.44
	12/15/21		-	81.14	-	3,458.53
	03/14/22		-	81.25	-	3,458.42
	06/14/22		-	81.23	-	3,458.44
	09/06/22		-	81.35	-	3,458.32
	02/09/23		-	81.12	-	3,458.55
MW-5 (4")	03/11/21	3,539.55	-	80.85	-	3,458.70
	06/18/21		-	80.84	-	3,458.71
	09/22/21		-	80.85	-	3,458.70
	12/15/21		-	80.90	-	3,458.65
	03/14/22		-	81.04	-	3,458.51
	06/14/22		-	80.91	-	3,458.64
	09/06/22		-	80.95	-	3,458.60
	02/09/23		-	80.96	-	3,458.59
MW-6 (2")	03/11/21	3,539.22	-	80.58	-	3,458.64
	06/18/21		-	80.60	-	3,458.62
	09/22/21		-	80.68	-	3,458.54
	12/15/21		-	80.63	-	3,458.59
	03/14/22		-	80.73	-	3,458.49
	06/14/22		-	80.63	-	3,458.59
	09/06/22		-	80.76	-	3,458.46
	02/09/23		-	80.69	-	3,458.53
MW-7 (4")	03/11/21	3,538.97	-	80.54	-	3,458.43
	06/18/21		-	80.61	-	3,458.36
	09/22/21		-	80.63	-	3,458.34
	12/15/21		-	80.64	-	3,458.33
	03/14/22		-	80.68	-	3,458.29
	06/14/22		-	80.57	-	3,458.40
	09/06/22		-	80.71	-	3,458.26
	02/09/23		-	80.65	-	3,458.32
MW-8 (2")	03/11/21	3,540.04	-	81.55	-	3,458.49
	06/18/21		-	81.58	-	3,458.46
	09/22/21		-	81.58	-	3,458.46
	12/15/21		-	81.61	-	3,458.43
	03/14/22		-	81.72	-	3,458.32
	06/14/22		-	81.60	-	3,458.44
	09/06/22		-	81.70	-	3,458.34
	02/09/23		-	81.65	-	3,458.39

Notes:

1. PSH: Phase Separated Hydrocarbons

2. NMOCD: New Mexico Oil Conservation Division

3. TOC: Top of Casing

* Elevations based on the North American Vertical Datum of 1988.

** Corrected groundwater elevations were extrapolated using a PSH specific gravity of 0.85, if PSH was gauged in the monitoring well.

Table 2
Groundwater BTEX¹ Concentration Analytical Summary

DCP Plant to Lea Station 6-Inch #2
Lea County, New Mexico
Plains SRS #: 2009-039
Etech Project #: 17472
NMOCD² Incident ID#: nAPP2109730917

All concentrations are in milligrams per liter (mg/l)

Monitoring Well		Date Sampled	EPA SW846-8021B					
			Benzene	Toluene	Ethylbenzene	M,P-Xylenes	O-Xylenes	Total Xylenes
NMOCD RRAL CRITERIA ³		0.01	0.75	0.75	TOTAL XYLENES 0.62			NE ⁴
MW -1	03/11/21	MW-1 Not Sampled Due to PSH ⁵						
	06/18/21							
	09/22/21							
	12/15/21							
	03/14/22							
	06/14/22							
	09/07/22	0.0234	<0.000475	0.000453	0.00134	0.000602	0.00194	0.0258
02/10/23	0.180	0.0176	0.0778	0.136	0.0442	0.18	0.456	
MW-2	03/11/21	<0.00198	<0.00198	<0.00198	<0.00397	<0.00198	<0.00198	<0.00198
	06/18/21	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200
	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	03/14/22	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	06/14/22	<0.000408	0.000752 J	<0.000657	<0.000629	<0.000642	<0.000642	0.000752 J
	09/07/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
02/09/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.0100	
MW-3	03/12/21	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199
	06/18/21	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200
	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	03/14/22	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	06/14/22	<0.000408	0.000673	<0.000657	<0.000629	<0.000642	<0.000642	0.000673
	09/07/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
02/09/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.00124	
MW-4	03/12/21	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00200	<0.00200
	06/18/21	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200
	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	03/14/22	<0.000408	0.000368 J	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	06/14/22	<0.000408	0.000383	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	09/07/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
02/09/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.0100	
MW-5	03/12/21	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199
	06/18/21	0.253	0.000452 J	0.0320	0.0256	0.00402	0.0296	0.315
	DUP-1	0.210	0.000581 J	0.0289	0.0233	0.00343	0.0267	0.266
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	0.00219
	DUP-1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	0.00254
	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	DUP-1	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	03/14/22	0.00250	<0.000367	0.00107 J	<0.000629	<0.000642	<0.000642	0.00357 J
	06/14/22	0.622	0.00171	0.0577	0.0373	0.00162	0.0389	0.72
	09/07/22	0.00177	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	0.00177
02/09/23	0.00509	<0.00100	0.00168	<0.0100	<0.00100	<0.0100	0.00677	

Notes:

1. BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes
 2. NMOCD: New Mexico Oil Conservation Division
 3. RRAL Criteria: Recommended Remediation Action Level Criteria
 4. NE: Not Established
 5. PSH: Phase-Separated Hydrocarbons
- J: The target analyte was positively identified below the quantitation limit and above the detection limit
- Bold** text indicates a concentration exceeding the NMOCD RRAL Criteria

Table 2
Groundwater BTEX¹ Concentration Analytical Summary

DCP Plant to Lea Station 6-Inch #2
Lea County, New Mexico
Plains SRS #: 2009-039
Etech Project #: 17472
NMOCD² Incident ID#: nAPP2109730917

All concentrations are in milligrams per liter (mg/l)

Air concentrations are in milligrams per meter (mg/m³)								
Monitoring Well	Date Sampled	EPA SW846-8021B						
		Benzene	Toluene	Ethylbenzene	M,P-Xylenes	O-Xylenes	Total Xylenes	Total BTEX
NMOCD RRAL CRITERIA ³		0.01	0.75	0.75	TOTAL XYLENES 0.62			NE ⁴
MW-6	03/11/21	<0.00200	<0.00200	<0.00200	<0.00399	<0.00200	<0.00200	<0.00200
	06/18/21	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200
	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	03/14/22	<0.000408	0.000511 J	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	06/14/22	0.000537	0.000706	<0.000657	<0.000629	<0.000642	<0.000642	0.00124
	09/07/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
	02/17/23	<0.000408	<0.000367	<0.000657	0.000712J	<0.000642	0.000712J	0.000712J
MW-7	03/11/21	<0.00198	<0.00198	<0.00198	<0.00396	<0.00198	<0.00198	<0.00198
	06/18/21	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200
	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	03/14/22	<0.000408	0.000674 J	<0.000657	<0.000629	<0.000642	<0.000642	0.000674J
	06/14/22	<0.000408	0.000403	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	09/07/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
	02/09/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.00124
MW-8	03/11/21	<0.00199	<0.00199	<0.00199	<0.00398	<0.00199	<0.00199	<0.00199
	06/18/21	<0.000408	<0.000367	0.000671 J	0.000714 J	<0.000642	0.000714 J	0.00139 J
	09/22/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00200
	12/15/21	<0.00200	<0.00200	<0.00200	<0.00400	<0.00200	<0.00400	<0.00400
	03/14/22	<0.000408	0.000393 J	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	06/14/22	<0.000408	<0.000367	<0.000657	<0.000629	<0.000642	<0.000642	<0.000657
	09/07/22	<0.000533	<0.000475	<0.000411	<0.00124	<0.000551	<0.00124	<0.00124
	02/09/23	<0.00100	<0.00100	<0.00100	<0.0100	<0.00100	<0.0100	<0.00124

Notes:

1. BTEX: Benzene, Toluene, Ethylbenzene, and Total Xylenes
 2. NMOCD: New Mexico Oil Conservation Division
 3. RRAL Criteria: Recommended Remediation Action Level Criteria
 4. NE: Not Established
 5. PSH: Phase-Separated Hydrocarbons
- J: The target analyte was positively identified below the quantitation limit and above the detection limit
- Bold** text indicates a concentration exceeding the NMOCD RRAL Criteria

Table 3
Air Emission¹ Analytical Summary - BTEX² & TPH³

DCP Plant to Lea Station 6-Inch #2
Lea County, New Mexico
Plains SRS#: 2009-039
Etech Project #: 17472
NMOCD Incident ID#: nAPP2109730917

Sample I.D.	Sample Date	Laboratory	BTEX / TPH (mg/m ³)	Emission Mass ⁴ (tons/year)	Emission Volume (gal/day)
New Mexico Environment Department (NMED) Air Quality Bureau (AQB) Action Level requiring an Air Permit				10	
EFF-1 (01272022)	01/27/2022	Pace	Benzene - ND	ND	ND
			Toluene - 253	0.172	0.129
			Ethylbenzene - 43.2	0.029	0.022
			Total Xylene - 135	0.092	0.069
			Total BTEX - 431	0.294	0.221
			TPH - GRO - 12,000	8.17	7.56
EFF-1 (02242022)	02/24/2022	Pace	Benzene - 6.01	4.091	3.076
			Toluene - 234	0.159	0.120
			Ethylbenzene - 46.0	0.031	0.024
			Total Xylene - 101	0.031	0.024
			Total BTEX - 6,391	4.351	3.271
			TPH - GRO - 10,000	6.81	6.30
EFF-1 (03282022)	03/28/2022	Pace	Benzene - 21.0	0.078	0.011
			Toluene - 22.5	0.084	0.012
			Ethylbenzene - 13.2	0.009	0.007
			Total Xylene - 383	0.031	0.024
			Total BTEX - 440	0.299	0.225
			TPH - GRO - 7,640	5.20	4.81
EFF-1 (04252022)	04/25/2022	Pace	Benzene - 4.30	0.003	0.002
			Toluene - 5.60	0.004	0.003
			Ethylbenzene - 0.80	0.001	0.000
			Total Xylene - 15.1	0.031	0.024
			Total BTEX - 25.8	0.018	0.013
			TPH - GRO - 3,420	2.33	2.15
EFF-1 (05192022)	05/19/2022	Pace	Benzene - 0	0.00	0.00
			Toluene - 288	0.20	0.15
			Ethylbenzene - 64.2	0.04	0.03
			Total Xylene - 195	0.13	0.10
			Total BTEX - 547	0.37	0.28
			TPH - GRO - 11,100	7.56	6.99
EFF-1 (06292022)	06/29/2022	Pace	Benzene - 7.60	0.000146	0.004
			Toluene - 252	0.000374	0.129
			Ethylbenzene - 49.4	0.0000106	0.025
			Total Xylene - 136	0.031314	0.07
			Total BTEX - 445	0.001838	0.228
			TPH - GRO - 10,100	0.632401	6.36
EFF-1 (07252022)	07/25/2022	Pace	Benzene - 0.214	0.005174	0
			Toluene - 0.60	0.171545	0
			Ethylbenzene - 0.20	0.033628	0
			Total Xylene - 1.90	0.092852	0.024
			Total BTEX - 2.70	0.303198	0.001
			TPH - GRO - 929	6.875404	0.585
EFF-1 (08222022)	08/22/2022	Pace	Benzene - 0	0	0
			Toluene - 302	0.205581	0.155
			Ethylbenzene - 68.9	0.046903	0.035
			Total Xylene - 200	0.135874	0.102
			Total BTEX - 571	0.3888358	0.292
			TPH - GRO - 10,500	7.147697	6.612
EFF-1 (09292022)	09/29/2022	Pace	Benzene - 4.44	0.003022	0.002
			Toluene - 235	0.159972	0.12
			Ethylbenzene - 46.0	0.031314	0.024
			Total Xylene - 133	0.090537	0.068
			Total BTEX - 418	0.388358	0.292
			TPH - GRO - 10,100	6.875404	6.36

Table 3
Air Emission¹ Analytical Summary - BTEX² & TPH³

DCP Plant to Lea Station 6-Inch #2
Lea County, New Mexico
Plains SRS#: 2009-039
Etech Project #: 17472
NMOCD Incident ID#: nAPP2109730917

Sample I.D.	Sample Date	Laboratory	BTEX / TPH (mg/m³)	Emission Mass ⁴ (tons/year)	Emission Volume (gal/day)
New Mexico Environment Department (NMED) Air Quality Burea (AQB) Action Level requiring an Air Permit				10	
EFF-1 (10202022)	10/20/2022	Pace	Benzene - 2.07	0.001409	0.001
			Toluene - 178	0.12117	0.091
			Ethylbenzene - 51.2	0.034854	0.026
			Total Xylene - 140	0.095507	0.072
			Total BTEX - 372	0.25294	0.19
			TPH - GRO - 8,760	5.963221	5.516
EFF-1 (11282022)	11/28/2022	Pace	Benzene - ND	0	0
			Toluene - 236	0.160653	0.121
			Ethylbenzene - 50.7	0.034513	0.026
			Total Xylene - 158	0.107215	0.081
			Total BTEX - 444	0.302382	0.227
			TPH - GRO - 8,220	5.595626	5.175
EFF-1 (03323)	03/03/2023	Eurofins Xenco	Benzene - 0.574	0.000391	0
			Toluene - 38.8	0.026412	0.02
			Ethylbenzene - 8.34	0.005677	0.004
			Total Xylene - 23.3	0.015861	0.012
			Total BTEX - 71.0	0.048342	0.036
			TPH - GRO - 575	0.391421	0.362
2022 TPH Average:				5.74	5.31

1. SVE Emission: Soil Vapor Extraction

2. BTEX: Benzene, toluene, ethylbenzene, total xylene analyzed by EPA Method 8021B

3. TPH: Total petroleum hydrocarbons analyzed by EPA Method 8015

4. Emission Mass calculated assuming flowrate 1.1073 (m³/min) and constituent concentration were constant for the entirety of a year.

NA: Indicates constituent was not analyzed

ND: Not detected at the Method Quantitation Limit.

< = Constituent not detected above laboratory sample detection limit (SDL)

Bold denotes concentrations that could potentially be in violation of applicable NMED AQB criteria.

Table 4
MW-1 SVE¹ System Operation & PSH² Thickness & Recovery Summary

DCP Plant to Lea Station 6-Inch #2
Lea County, New Mexico
Plains SRS #: 2009-039
Etech Project #: 17472
NMOCD³ Incident ID#: nAPP2109730917

All elevation measurements are in feet above mean sea level

Monitoring Well	Date	Top of Casing (TOC) ⁴ Elevation*	Depth to PSH Below TOC (feet)	Depth to Water Below TOC (feet)	PSH Thickness (feet)	PID ⁵ Reading	Hours of Operation	Total Fluid Recovery (gallons)	PSH Recovered (gallons)
MW-1	08/25/21	3,540.25	81.55	81.86	0.31	1,475	27,752	5.00	0.202
	10/28/21		81.35	81.40	0.05	-	28,779	5.00	0.033
	11/30/21		Not Measured			1,326	29,571	5.00	-
	12/20/21		84.76	85.60	0.84	-	30,051	5.00	0.549
	01/27/22		81.35	81.35	SHEEN	-	30,583	5.00	-
	02/24/22		81.17	81.17	SHEEN	1,886	31,254	5.00	-
	03/28/22		81.27	81.27	SHEEN	1,397	31,849	5.00	-
	04/15/22		81.39	81.39	SHEEN	1,126	32,520	5.00	-
	05/19/22		81.35	81.36	0.01	1,103	33,094	5.00	0.007
	06/14/22		81.43	81.43	SHEEN	-	-	-	-
	06/29/22		81.90	81.90	SHEEN	2,168	33,598	5.00	-
	08/22/22		81.91	81.91	SHEEN	-	34,894	5.00	-
	09/29/22		81.74	81.74	SHEEN	2,623.00	35,613	5.00	-
	10/20/22		81.80	81.80	SHEEN	1,766	36,099	5.00	-
	11/28/22		81.90	81.90	SHEEN	1,356	-	5.00	-
Average PSH Thickness					0.01	2022 Total Recovered		45.0	0.007

Notes:

1. SVE: Soil Vapor Extraction
2. PSH: Phase Separated Hydrocarbons
3. NMOCD: New Mexico Oil Conservation Division
4. TOC: Top Of Casing
5. PID: Photoionization Detector

* Elevations based on the North American Vertical Datum of 1988.

** Corrected groundwater elevations were extrapolated using a PSH specific gravity of 0.85, if PSH was gauged in the monitoring well.

Table 5
MW-5 Gauging & BTEX¹ Impacted Groundwater Recovery Summary

DCP Plant to Lea Station 6-Inch #2
Lea County, New Mexico
Plains SRS #: 2009-039
Etech Project #: 17472
NMOCD³ Incident ID #: nAPP2109730917

All elevation measurements are in feet above mean sea level

Monitoring Well	Date	Top of Casing (TOC) ³ Elevation	Depth to Water	Corrected Groundwater Elevation	Groundwater Recovered (gallons)
MW-5	03/30/21	3,539.55	-	-	5.0
	04/27/21		-	-	5.0
	05/28/21		-	-	5.0
	06/28/21		-	-	5.0
	07/27/21		-	-	5.0
	08/25/21		-	-	5.0
	10/28/21		-	-	5.0
	11/30/21		-	-	5.0
	12/20/21		-	-	5.0
	01/27/22		-	-	5.0
	02/04/22		-	-	5.0
	03/28/22		-	-	5.0
	04/25/22		-	-	5.0
	05/19/22		-	-	5.0
	06/29/22		-	-	5.0
	08/22/22		-	-	5.0
	09/29/22		Not enough bailers to recover		0.0
	10/20/22		-	-	5.0
	11/28/22		-	-	5.0
	2022 GW Recovered				

Notes:

1. BTEX: Benzene, Toluene, Ethylbenzene, Total Xylene
2. NMOCD: New Mexico Oil Conservation Division
3. TOC: Top Of Casing
4. GW: Groundwater

Table 6
Concentrations of PAH¹ in Groundwater Summary

DCP Plant to Lea Station 6-Inch #2
Lea County, New Mexico
Plains SRS #: 2009-039
Etech Project #: 17472
NMOCD² Incident ID#: nAPP2109729126

All concentrations are reported in milligrams per liter (mg/L)

Well ID	Date Sampled	EPA 8270D																
		N/Aphtalene	Benzo(a)pyrene	AceN/Aphtene	AceN/Aphtylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)Pyrene	Phen/Anthrene	Pyrene
NMWQCC Standard ³		0.03	0.0007	NE ⁴														
MW-1	12/10/09	N/A	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	N/A	<0.100	<0.100	<0.100	<0.100	<0.100
	12/16/20	Well Not Sampled Due To Phase Separate Hydrocarbons (PSH)																
	02/10/23	0.00704	<0.000184	0.000239	<0.000184	<0.000184	0.000336	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	N/A	<0.000184	0.000979	<0.000184	0.000605	0.000243
MW-2	07/01/09	N/A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	12/16/20	<0.000104	<0.0000609	<0.000107	<0.0000899	<0.0000925	<0.000144	<0.0000759	<0.000121	<0.000124	<0.000167	<0.0000812	N/A	<0.000168	<0.000108	<0.0000975	<0.0000908	<0.000139
	03/14/22	<0.0000963	<0.0000566	<0.0000991	<0.0000834	<0.0000892	<0.000133	<0.0000694	<0.000112	<0.000115	<0.000155	<0.0000753	<0.0000991	<0.000156	<0.000100	<0.0000905	<0.0000842	<0.000129
MW-3	07/01/09	N/A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	12/16/11	N/A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	11/09/12	<0.00031	<0.000019	<0.00035	<0.00033	<0.00016	<0.00024	<0.00036	<0.00028	<0.00049	<0.00022	<0.00019	N/A	<0.00024	<0.00030	<0.00032	<0.00027	<0.00027
	12/16/20	<0.000106	<0.0000623	<0.000109	<0.0000920	<0.0000946	<0.000147	<0.0000777	<0.000124	<0.000127	<0.000171	<0.0000830	N/A	<0.000172	<0.000110	<0.0000998	<0.0000929	<0.000142
	03/14/22	<0.0000991	<0.0000834	<0.0000892	<0.000133	<0.0000566	<0.0000694	<0.000112	<0.000115	<0.000155	<0.0000753	<0.0000991	<0.000156	<0.000100	<0.0000905	<0.0000963	<0.0000842	<0.000129
MW-4	07/01/09	N/A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	12/16/11	N/A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	11/09/12	<0.00032	<0.000020	<0.00037	<0.00034	<0.00016	<0.00025	<0.00038	<0.00029	<0.00051	<0.00023	<0.00020	N/A	<0.00025	<0.00031	<0.00034	<0.00028	<0.00028
	12/16/20	<0.000108	<0.0000637	<0.000112	<0.0000939	<0.0000966	<0.000150	<0.0000793	<0.000126	<0.000130	<0.000174	<0.0000848	N/A	<0.000175	<0.000112	<0.000102	<0.0000949	<0.000145
	03/14/22	<0.0000996	<0.0000839	<0.0000897	<0.000134	<0.0000569	<0.0000697	<0.000113	<0.000116	<0.000155	<0.0000757	<0.0000996	<0.000156	<0.000101	<0.0000910	<0.0000968	<0.0000847	<0.000130
MW-5	03/25/11	N/A	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	N/A	<0.005	<0.005	<0.005	<0.005	<0.005
	11/09/12	<0.00032	<0.000020	<0.00037	<0.00034	<0.00016	<0.00025	<0.00038	<0.00029	<0.00051	<0.00023	<0.00020	N/A	<0.00025	<0.00031	<0.00034	<0.00028	<0.00028
	12/23/13	0.000535	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049	N/A	<0.000049	<0.000049	<0.000049	<0.000049	<0.000049
	05/08/14	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	12/16/20	<0.0000986	<0.0000579	<0.000101	<0.0000854	<0.0000879	<0.000136	<0.0000721	<0.000115	<0.000118	<0.000158	<0.0000771	N/A	<0.000159	<0.000102	<0.0000926	<0.0000863	<0.000132
	03/14/22	<0.0000993	<0.0000836	<0.0000894	<0.000133	<0.0000567	<0.0000695	<0.000112	<0.000115	<0.000155	<0.0000755	<0.0000993	<0.000156	<0.000100	<0.0000906	<0.0000965	<0.0000844	<0.000129
MW-6	05/08/14	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	12/16/20	<0.000119	<0.0000698	<0.000122	<0.000103	<0.000106	<0.000164	<0.0000869	<0.000138	<0.000142	<0.000191	<0.0000929	N/A	<0.000192	<0.000123	<0.000112	<0.000104	<0.000159
	03/14/22	<0.0000995	<0.0000837	<0.0000895	<0.000133	<0.0000568	<0.0000696	<0.000112	<0.000115	<0.000155	<0.0000756	<0.0000995	<0.000156	<0.000100	<0.0000908	<0.0000967	<0.0000845	<0.000129
MW-7	05/08/14	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	N/A	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
	12/16/20	<0.000110	<0.0000644	<0.000113	<0.0000951	<0.0000978	<0.000152	<0.0000803	<0.000128	<0.000131	<0.000176	<0.0000858	N/A	<0.000177	<0.000114	<0.000103	<0.0000960	<0.000147
	03/14/22	<0.0000996	<0.0000839	<0.0000897	<0.000134	<0.0000569	<0.0000697	<0.000113	<0.000116	<0.000155	<0.0000757	<0.0000996	<0.000156	<0.000101	<0.0000910	<0.0000968	<0.0000847	<0.000130
MW-8	12/16/20	<0.0000646	<0.000110	<0.000113	<0.0000954	<0.0000981	<0.000152	<0.0000805	<0.000128	<0.000132	<0.000177	<0.0000861	N/A	<0.000178	<0.000114	<0.000103	<0.0000963	<0.000148
	03/14/22	<0.000100	<0.0000842	<0.0000900	<0.000134	<0.0000571	<0.0000700	<0.000113	<0.000116	<0.000156	<0.0000760	<0.000100	<0.000157	<0.000101	<0.0000913	<0.0000972	<0.0000850	<0.000130

Notes:

1. PAH: Polycyclic Aromatic Hydrocarbons
2. NMOCD: New Mexico Oil Conservation Division
3. NMWQCC: New Mexico Water Quality Control Commission
4. NE: Not Established

Bold text indicates a concentration exceeding NMWQCC Drinking Water Standards

Appendix A

Laboratory Analytical Reports



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-3678-1

Laboratory Sample Delivery Group: AR227008

Client Project/Site: DCP #2

For:

Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Attn: Brett Dennis

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

Authorized for release by:
3/28/2022 5:02:24 PM

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

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Laboratory Job ID: 820-3678-1
SDG: AR227008

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	12
QC Sample Results	13
QC Association Summary	19
Lab Chronicle	21
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	28

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

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Qualifiers

GC/MS Semi VOA

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

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Job ID: 820-3678-1

Laboratory: Eurofins Lubbock

Narrative	
	Job Narrative 820-3678-1

Receipt

The samples were received on 3/16/2022 11:56 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 4.1°C

GC/MS Semi VOA

Method 8270D_SIM: The surrogate recovery for the blank associated with preparation batch 860-45602 and analytical batch 860-45678 was outside the upper control limits.

Method 8270D_SIM: Surrogate recovery for the following samples were outside the upper control limit: MW-3 (820-3678-2), MW-4 (820-3678-3), MW-5 (820-3678-4), MW-6 (820-3678-5), MW-7 (820-3678-6) and MW-8 (820-3678-7). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

GC VOA

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

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Client Sample ID: MW-2

Lab Sample ID: 820-3678-1

Date Collected: 03/14/22 14:35

Matrix: Water

Date Received: 03/16/22 11:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000991	U	0.000180	0.0000991	mg/L		03/18/22 19:48	03/21/22 13:09	1
Acenaphthylene	<0.0000834	U	0.000180	0.0000834	mg/L		03/18/22 19:48	03/21/22 13:09	1
Anthracene	<0.0000892	U	0.000180	0.0000892	mg/L		03/18/22 19:48	03/21/22 13:09	1
Benzo[a]anthracene	<0.000133	U	0.000180	0.000133	mg/L		03/18/22 19:48	03/21/22 13:09	1
Benzo[a]pyrene	<0.0000566	U	0.000180	0.0000566	mg/L		03/18/22 19:48	03/21/22 13:09	1
Benzo[b]fluoranthene	<0.0000694	U	0.000180	0.0000694	mg/L		03/18/22 19:48	03/21/22 13:09	1
Benzo[g,h,i]perylene	<0.000112	U	0.000180	0.000112	mg/L		03/18/22 19:48	03/21/22 13:09	1
Benzo[k]fluoranthene	<0.000115	U	0.000180	0.000115	mg/L		03/18/22 19:48	03/21/22 13:09	1
Chrysene	<0.000155	U	0.000180	0.000155	mg/L		03/18/22 19:48	03/21/22 13:09	1
Dibenz[a,h]anthracene	<0.0000753	U	0.000180	0.0000753	mg/L		03/18/22 19:48	03/21/22 13:09	1
Dibenzofuran	<0.0000991	U	0.000180	0.0000991	mg/L		03/18/22 19:48	03/21/22 13:09	1
Fluoranthene	<0.000156	U	0.000180	0.000156	mg/L		03/18/22 19:48	03/21/22 13:09	1
Fluorene	<0.000100	U	0.000180	0.000100	mg/L		03/18/22 19:48	03/21/22 13:09	1
Indeno[1,2,3-cd]pyrene	<0.0000905	U	0.000180	0.0000905	mg/L		03/18/22 19:48	03/21/22 13:09	1
Naphthalene	<0.0000963	U	0.00361	0.0000963	mg/L		03/18/22 19:48	03/21/22 13:09	1
Phenanthrene	<0.0000842	U	0.000180	0.0000842	mg/L		03/18/22 19:48	03/21/22 13:09	1
Pyrene	<0.000129	U	0.000180	0.000129	mg/L		03/18/22 19:48	03/21/22 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	133		54 - 146	03/18/22 19:48	03/21/22 13:09	1
Nitrobenzene-d5	121		46 - 151	03/18/22 19:48	03/21/22 13:09	1
p-Terphenyl-d14	100		51 - 139	03/18/22 19:48	03/21/22 13:09	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/24/22 00:54	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/24/22 00:54	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/24/22 00:54	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 00:54	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/24/22 00:54	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/24/22 00:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130		03/24/22 00:54	1
1,4-Difluorobenzene (Surr)	102		70 - 130		03/24/22 00:54	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/24/22 16:40	1

Client Sample ID: MW-3

Lab Sample ID: 820-3678-2

Date Collected: 03/14/22 15:30

Matrix: Water

Date Received: 03/16/22 11:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000996	U	0.000181	0.0000996	mg/L		03/18/22 19:48	03/21/22 13:28	1
Acenaphthylene	<0.0000839	U	0.000181	0.0000839	mg/L		03/18/22 19:48	03/21/22 13:28	1
Anthracene	<0.0000897	U	0.000181	0.0000897	mg/L		03/18/22 19:48	03/21/22 13:28	1
Benzo[a]anthracene	<0.000134	U	0.000181	0.000134	mg/L		03/18/22 19:48	03/21/22 13:28	1
Benzo[a]pyrene	<0.0000569	U	0.000181	0.0000569	mg/L		03/18/22 19:48	03/21/22 13:28	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Client Sample ID: MW-3

Lab Sample ID: 820-3678-2

Date Collected: 03/14/22 15:30

Matrix: Water

Date Received: 03/16/22 11:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<0.0000697	U	0.000181	0.0000697	mg/L		03/18/22 19:48	03/21/22 13:28	1
Benzo[g,h,i]perylene	<0.000113	U	0.000181	0.000113	mg/L		03/18/22 19:48	03/21/22 13:28	1
Benzo[k]fluoranthene	<0.000116	U	0.000181	0.000116	mg/L		03/18/22 19:48	03/21/22 13:28	1
Chrysene	<0.000155	U	0.000181	0.000155	mg/L		03/18/22 19:48	03/21/22 13:28	1
Dibenz[a,h]anthracene	<0.0000757	U	0.000181	0.0000757	mg/L		03/18/22 19:48	03/21/22 13:28	1
Dibenzofuran	<0.0000996	U	0.000181	0.0000996	mg/L		03/18/22 19:48	03/21/22 13:28	1
Fluoranthene	<0.000156	U	0.000181	0.000156	mg/L		03/18/22 19:48	03/21/22 13:28	1
Fluorene	<0.000101	U	0.000181	0.000101	mg/L		03/18/22 19:48	03/21/22 13:28	1
Indeno[1,2,3-cd]pyrene	<0.0000910	U	0.000181	0.0000910	mg/L		03/18/22 19:48	03/21/22 13:28	1
Naphthalene	<0.0000968	U	0.00363	0.0000968	mg/L		03/18/22 19:48	03/21/22 13:28	1
Phenanthrene	<0.0000847	U	0.000181	0.0000847	mg/L		03/18/22 19:48	03/21/22 13:28	1
Pyrene	<0.000130	U	0.000181	0.000130	mg/L		03/18/22 19:48	03/21/22 13:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	163	S1+	54 - 146	03/18/22 19:48	03/21/22 13:28	1
Nitrobenzene-d5	143		46 - 151	03/18/22 19:48	03/21/22 13:28	1
p-Terphenyl-d14	128		51 - 139	03/18/22 19:48	03/21/22 13:28	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/24/22 01:14	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/24/22 01:14	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/24/22 01:14	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 01:14	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/24/22 01:14	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/24/22 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130		03/24/22 01:14	1
1,4-Difluorobenzene (Surr)	102		70 - 130		03/24/22 01:14	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/24/22 16:40	1

Client Sample ID: MW-4

Lab Sample ID: 820-3678-3

Date Collected: 03/14/22 16:45

Matrix: Water

Date Received: 03/16/22 11:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000993	U	0.000181	0.0000993	mg/L		03/18/22 19:48	03/21/22 13:48	1
Acenaphthylene	<0.0000836	U	0.000181	0.0000836	mg/L		03/18/22 19:48	03/21/22 13:48	1
Anthracene	<0.0000894	U	0.000181	0.0000894	mg/L		03/18/22 19:48	03/21/22 13:48	1
Benzo[a]anthracene	<0.000133	U	0.000181	0.000133	mg/L		03/18/22 19:48	03/21/22 13:48	1
Benzo[a]pyrene	<0.0000567	U	0.000181	0.0000567	mg/L		03/18/22 19:48	03/21/22 13:48	1
Benzo[b]fluoranthene	<0.0000695	U	0.000181	0.0000695	mg/L		03/18/22 19:48	03/21/22 13:48	1
Benzo[g,h,i]perylene	<0.000112	U	0.000181	0.000112	mg/L		03/18/22 19:48	03/21/22 13:48	1
Benzo[k]fluoranthene	<0.000115	U	0.000181	0.000115	mg/L		03/18/22 19:48	03/21/22 13:48	1
Chrysene	<0.000155	U	0.000181	0.000155	mg/L		03/18/22 19:48	03/21/22 13:48	1
Dibenz[a,h]anthracene	<0.0000755	U	0.000181	0.0000755	mg/L		03/18/22 19:48	03/21/22 13:48	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Client Sample ID: MW-4

Lab Sample ID: 820-3678-3

Date Collected: 03/14/22 16:45

Matrix: Water

Date Received: 03/16/22 11:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<0.0000993	U	0.000181	0.0000993	mg/L		03/18/22 19:48	03/21/22 13:48	1
Fluoranthene	<0.000156	U	0.000181	0.000156	mg/L		03/18/22 19:48	03/21/22 13:48	1
Fluorene	<0.000100	U	0.000181	0.000100	mg/L		03/18/22 19:48	03/21/22 13:48	1
Indeno[1,2,3-cd]pyrene	<0.0000906	U	0.000181	0.0000906	mg/L		03/18/22 19:48	03/21/22 13:48	1
Naphthalene	<0.0000965	U	0.00361	0.0000965	mg/L		03/18/22 19:48	03/21/22 13:48	1
Phenanthrene	<0.0000844	U	0.000181	0.0000844	mg/L		03/18/22 19:48	03/21/22 13:48	1
Pyrene	<0.000129	U	0.000181	0.000129	mg/L		03/18/22 19:48	03/21/22 13:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	157	S1+	54 - 146	03/18/22 19:48	03/21/22 13:48	1
Nitrobenzene-d5	139		46 - 151	03/18/22 19:48	03/21/22 13:48	1
p-Terphenyl-d14	122		51 - 139	03/18/22 19:48	03/21/22 13:48	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/24/22 01:34	1
Toluene	0.000368	J	0.00200	0.000367	mg/L			03/24/22 01:34	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/24/22 01:34	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 01:34	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/24/22 01:34	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/24/22 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130		03/24/22 01:34	1
1,4-Difluorobenzene (Surr)	105		70 - 130		03/24/22 01:34	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/24/22 16:40	1

Client Sample ID: MW-5

Lab Sample ID: 820-3678-4

Date Collected: 03/14/22 17:30

Matrix: Water

Date Received: 03/16/22 11:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000995	U	0.000181	0.0000995	mg/L		03/18/22 19:48	03/21/22 14:07	1
Acenaphthylene	<0.0000837	U	0.000181	0.0000837	mg/L		03/18/22 19:48	03/21/22 14:07	1
Anthracene	<0.0000895	U	0.000181	0.0000895	mg/L		03/18/22 19:48	03/21/22 14:07	1
Benzo[a]anthracene	<0.000133	U	0.000181	0.000133	mg/L		03/18/22 19:48	03/21/22 14:07	1
Benzo[a]pyrene	<0.0000568	U	0.000181	0.0000568	mg/L		03/18/22 19:48	03/21/22 14:07	1
Benzo[b]fluoranthene	<0.0000696	U	0.000181	0.0000696	mg/L		03/18/22 19:48	03/21/22 14:07	1
Benzo[g,h,i]perylene	<0.000112	U	0.000181	0.000112	mg/L		03/18/22 19:48	03/21/22 14:07	1
Benzo[k]fluoranthene	<0.000115	U	0.000181	0.000115	mg/L		03/18/22 19:48	03/21/22 14:07	1
Chrysene	<0.000155	U	0.000181	0.000155	mg/L		03/18/22 19:48	03/21/22 14:07	1
Dibenz(a,h)anthracene	<0.0000756	U	0.000181	0.0000756	mg/L		03/18/22 19:48	03/21/22 14:07	1
Dibenzofuran	<0.0000995	U	0.000181	0.0000995	mg/L		03/18/22 19:48	03/21/22 14:07	1
Fluoranthene	<0.000156	U	0.000181	0.000156	mg/L		03/18/22 19:48	03/21/22 14:07	1
Fluorene	<0.000100	U	0.000181	0.000100	mg/L		03/18/22 19:48	03/21/22 14:07	1
Indeno[1,2,3-cd]pyrene	<0.0000908	U	0.000181	0.0000908	mg/L		03/18/22 19:48	03/21/22 14:07	1
Naphthalene	<0.0000967	U	0.00362	0.0000967	mg/L		03/18/22 19:48	03/21/22 14:07	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Client Sample ID: MW-5

Lab Sample ID: 820-3678-4

Date Collected: 03/14/22 17:30

Matrix: Water

Date Received: 03/16/22 11:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<0.0000845	U	0.000181	0.0000845	mg/L		03/18/22 19:48	03/21/22 14:07	1
Pyrene	<0.000129	U	0.000181	0.000129	mg/L		03/18/22 19:48	03/21/22 14:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	155	S1+	54 - 146				03/18/22 19:48	03/21/22 14:07	1
Nitrobenzene-d5	139		46 - 151				03/18/22 19:48	03/21/22 14:07	1
p-Terphenyl-d14	119		51 - 139				03/18/22 19:48	03/21/22 14:07	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00250		0.00200	0.000408	mg/L			03/24/22 01:55	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/24/22 01:55	1
Ethylbenzene	0.00107	J	0.00200	0.000657	mg/L			03/24/22 01:55	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 01:55	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/24/22 01:55	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/24/22 01:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130					03/24/22 01:55	1
1,4-Difluorobenzene (Surr)	101		70 - 130					03/24/22 01:55	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00357	J	0.00400	0.000657	mg/L			03/24/22 16:40	1

Client Sample ID: MW-6

Lab Sample ID: 820-3678-5

Date Collected: 03/14/22 11:20

Matrix: Water

Date Received: 03/16/22 11:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000993	U	0.000181	0.0000993	mg/L		03/18/22 19:48	03/21/22 14:27	1
Acenaphthylene	<0.0000836	U	0.000181	0.0000836	mg/L		03/18/22 19:48	03/21/22 14:27	1
Anthracene	<0.0000894	U	0.000181	0.0000894	mg/L		03/18/22 19:48	03/21/22 14:27	1
Benzo[a]anthracene	<0.000133	U	0.000181	0.000133	mg/L		03/18/22 19:48	03/21/22 14:27	1
Benzo[a]pyrene	<0.0000567	U	0.000181	0.0000567	mg/L		03/18/22 19:48	03/21/22 14:27	1
Benzo[b]fluoranthene	<0.0000695	U	0.000181	0.0000695	mg/L		03/18/22 19:48	03/21/22 14:27	1
Benzo[g,h,i]perylene	<0.000112	U	0.000181	0.000112	mg/L		03/18/22 19:48	03/21/22 14:27	1
Benzo[k]fluoranthene	<0.000115	U	0.000181	0.000115	mg/L		03/18/22 19:48	03/21/22 14:27	1
Chrysene	<0.000155	U	0.000181	0.000155	mg/L		03/18/22 19:48	03/21/22 14:27	1
Dibenz[a,h]anthracene	<0.0000755	U	0.000181	0.0000755	mg/L		03/18/22 19:48	03/21/22 14:27	1
Dibenzofuran	<0.0000993	U	0.000181	0.0000993	mg/L		03/18/22 19:48	03/21/22 14:27	1
Fluoranthene	<0.000156	U	0.000181	0.000156	mg/L		03/18/22 19:48	03/21/22 14:27	1
Fluorene	<0.000100	U	0.000181	0.000100	mg/L		03/18/22 19:48	03/21/22 14:27	1
Indeno[1,2,3-cd]pyrene	<0.0000906	U	0.000181	0.0000906	mg/L		03/18/22 19:48	03/21/22 14:27	1
Naphthalene	<0.0000965	U	0.00361	0.0000965	mg/L		03/18/22 19:48	03/21/22 14:27	1
Phenanthrene	<0.0000844	U	0.000181	0.0000844	mg/L		03/18/22 19:48	03/21/22 14:27	1
Pyrene	<0.000129	U	0.000181	0.000129	mg/L		03/18/22 19:48	03/21/22 14:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	153	S1+	54 - 146				03/18/22 19:48	03/21/22 14:27	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Client Sample ID: MW-6

Lab Sample ID: 820-3678-5

Date Collected: 03/14/22 11:20

Matrix: Water

Date Received: 03/16/22 11:56

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	137		46 - 151	03/18/22 19:48	03/21/22 14:27	1
p-Terphenyl-d14	79		51 - 139	03/18/22 19:48	03/21/22 14:27	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/24/22 02:15	1
Toluene	0.000511	J	0.00200	0.000367	mg/L			03/24/22 02:15	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/24/22 02:15	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 02:15	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/24/22 02:15	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/24/22 02:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		03/24/22 02:15	1
1,4-Difluorobenzene (Surr)	104		70 - 130		03/24/22 02:15	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/24/22 16:40	1

Client Sample ID: MW-7

Lab Sample ID: 820-3678-6

Date Collected: 03/14/22 12:30

Matrix: Water

Date Received: 03/16/22 11:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.0000996	U	0.000181	0.0000996	mg/L		03/18/22 19:48	03/21/22 14:46	1
Acenaphthylene	<0.0000839	U	0.000181	0.0000839	mg/L		03/18/22 19:48	03/21/22 14:46	1
Anthracene	<0.0000897	U	0.000181	0.0000897	mg/L		03/18/22 19:48	03/21/22 14:46	1
Benzo[a]anthracene	<0.000134	U	0.000181	0.000134	mg/L		03/18/22 19:48	03/21/22 14:46	1
Benzo[a]pyrene	<0.0000569	U	0.000181	0.0000569	mg/L		03/18/22 19:48	03/21/22 14:46	1
Benzo[b]fluoranthene	<0.0000697	U	0.000181	0.0000697	mg/L		03/18/22 19:48	03/21/22 14:46	1
Benzo[g,h,i]perylene	<0.000113	U	0.000181	0.000113	mg/L		03/18/22 19:48	03/21/22 14:46	1
Benzo[k]fluoranthene	<0.000116	U	0.000181	0.000116	mg/L		03/18/22 19:48	03/21/22 14:46	1
Chrysene	<0.000155	U	0.000181	0.000155	mg/L		03/18/22 19:48	03/21/22 14:46	1
Dibenz(a,h)anthracene	<0.0000757	U	0.000181	0.0000757	mg/L		03/18/22 19:48	03/21/22 14:46	1
Dibenzofuran	<0.0000996	U	0.000181	0.0000996	mg/L		03/18/22 19:48	03/21/22 14:46	1
Fluoranthene	<0.000156	U	0.000181	0.000156	mg/L		03/18/22 19:48	03/21/22 14:46	1
Fluorene	<0.000101	U	0.000181	0.000101	mg/L		03/18/22 19:48	03/21/22 14:46	1
Indeno[1,2,3-cd]pyrene	<0.0000910	U	0.000181	0.0000910	mg/L		03/18/22 19:48	03/21/22 14:46	1
Naphthalene	<0.0000968	U	0.00363	0.0000968	mg/L		03/18/22 19:48	03/21/22 14:46	1
Phenanthrene	<0.0000847	U	0.000181	0.0000847	mg/L		03/18/22 19:48	03/21/22 14:46	1
Pyrene	<0.000130	U	0.000181	0.000130	mg/L		03/18/22 19:48	03/21/22 14:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	158	S1+	54 - 146	03/18/22 19:48	03/21/22 14:46	1
Nitrobenzene-d5	137		46 - 151	03/18/22 19:48	03/21/22 14:46	1
p-Terphenyl-d14	95		51 - 139	03/18/22 19:48	03/21/22 14:46	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Client Sample ID: MW-7

Lab Sample ID: 820-3678-6

Date Collected: 03/14/22 12:30

Matrix: Water

Date Received: 03/16/22 11:56

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/25/22 05:30	1
Toluene	0.000674	J F2 F1	0.00200	0.000367	mg/L			03/25/22 05:30	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/25/22 05:30	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/25/22 05:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/25/22 05:30	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/25/22 05:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130					03/25/22 05:30	1
1,4-Difluorobenzene (Surr)	106		70 - 130					03/25/22 05:30	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000674	J	0.00400	0.000657	mg/L			03/24/22 16:40	1

Client Sample ID: MW-8

Lab Sample ID: 820-3678-7

Date Collected: 03/14/22 13:35

Matrix: Water

Date Received: 03/16/22 11:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000100	U	0.000182	0.000100	mg/L		03/18/22 19:48	03/21/22 15:05	1
Acenaphthylene	<0.0000842	U	0.000182	0.0000842	mg/L		03/18/22 19:48	03/21/22 15:05	1
Anthracene	<0.0000900	U	0.000182	0.0000900	mg/L		03/18/22 19:48	03/21/22 15:05	1
Benzo[a]anthracene	<0.000134	U	0.000182	0.000134	mg/L		03/18/22 19:48	03/21/22 15:05	1
Benzo[a]pyrene	<0.0000571	U	0.000182	0.0000571	mg/L		03/18/22 19:48	03/21/22 15:05	1
Benzo[b]fluoranthene	<0.0000700	U	0.000182	0.0000700	mg/L		03/18/22 19:48	03/21/22 15:05	1
Benzo[g,h,i]perylene	<0.000113	U	0.000182	0.000113	mg/L		03/18/22 19:48	03/21/22 15:05	1
Benzo[k]fluoranthene	<0.000116	U	0.000182	0.000116	mg/L		03/18/22 19:48	03/21/22 15:05	1
Chrysene	<0.000156	U	0.000182	0.000156	mg/L		03/18/22 19:48	03/21/22 15:05	1
Dibenz(a,h)anthracene	<0.0000760	U	0.000182	0.0000760	mg/L		03/18/22 19:48	03/21/22 15:05	1
Dibenzofuran	<0.000100	U	0.000182	0.000100	mg/L		03/18/22 19:48	03/21/22 15:05	1
Fluoranthene	<0.000157	U	0.000182	0.000157	mg/L		03/18/22 19:48	03/21/22 15:05	1
Fluorene	<0.000101	U	0.000182	0.000101	mg/L		03/18/22 19:48	03/21/22 15:05	1
Indeno[1,2,3-cd]pyrene	<0.0000913	U	0.000182	0.0000913	mg/L		03/18/22 19:48	03/21/22 15:05	1
Naphthalene	<0.0000972	U	0.00364	0.0000972	mg/L		03/18/22 19:48	03/21/22 15:05	1
Phenanthrene	<0.0000850	U	0.000182	0.0000850	mg/L		03/18/22 19:48	03/21/22 15:05	1
Pyrene	<0.000130	U	0.000182	0.000130	mg/L		03/18/22 19:48	03/21/22 15:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	156	S1+	54 - 146				03/18/22 19:48	03/21/22 15:05	1
Nitrobenzene-d5	134		46 - 151				03/18/22 19:48	03/21/22 15:05	1
p-Terphenyl-d14	91		51 - 139				03/18/22 19:48	03/21/22 15:05	1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/25/22 05:51	1
Toluene	0.000393	J	0.00200	0.000367	mg/L			03/25/22 05:51	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/25/22 05:51	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/25/22 05:51	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/25/22 05:51	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Client Sample ID: MW-8

Lab Sample ID: 820-3678-7

Date Collected: 03/14/22 13:35

Matrix: Water

Date Received: 03/16/22 11:56

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/25/22 05:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130		03/25/22 05:51	1
1,4-Difluorobenzene (Surr)	105		70 - 130		03/25/22 05:51	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			03/24/22 16:40	1

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (54-146)	NBZ (46-151)	TPHd14 (51-139)
820-3678-1	MW-2	133	121	100
820-3678-2	MW-3	163 S1+	143	128
820-3678-3	MW-4	157 S1+	139	122
820-3678-4	MW-5	155 S1+	139	119
820-3678-5	MW-6	153 S1+	137	79
820-3678-6	MW-7	158 S1+	137	95
820-3678-7	MW-8	156 S1+	134	91
LCS 860-45602/2-A	Lab Control Sample	128	128	126
LCSD 860-45602/3-A	Lab Control Sample Dup	137	138	130
MB 860-45602/1-A	Method Blank	146	132	147 S1+
Surrogate Legend				
FBP = 2-Fluorobiphenyl				
NBZ = Nitrobenzene-d5				
TPHd14 = p-Terphenyl-d14				

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
820-3678-1	MW-2	106	102
820-3678-1 MS	MW-2	94	102
820-3678-1 MSD	MW-2	91	101
820-3678-2	MW-3	108	102
820-3678-3	MW-4	111	105
820-3678-4	MW-5	103	101
820-3678-5	MW-6	109	104
820-3678-6	MW-7	110	106
820-3678-6 MS	MW-7	98	102
820-3678-6 MSD	MW-7	97	101
820-3678-7	MW-8	109	105
LCS 880-22187/34	Lab Control Sample	96	101
LCS 880-22265/34	Lab Control Sample	99	103
LCSD 880-22187/35	Lab Control Sample Dup	92	103
LCSD 880-22265/35	Lab Control Sample Dup	101	107
MB 880-21823/5-A	Method Blank	98	102
MB 880-21852/5-A	Method Blank	99	101
MB 880-22187/39	Method Blank	99	98
MB 880-22265/39	Method Blank	98	101
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

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

Lab Sample ID: MB 860-45602/1-A

Matrix: Water

Analysis Batch: 45678

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45602

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000100	U	0.000182	0.000100	mg/L		03/18/22 19:48	03/21/22 11:13	1
Acenaphthylene	<0.0000844	U	0.000182	0.0000844	mg/L		03/18/22 19:48	03/21/22 11:13	1
Anthracene	<0.0000902	U	0.000182	0.0000902	mg/L		03/18/22 19:48	03/21/22 11:13	1
Benzo[a]anthracene	<0.000134	U	0.000182	0.000134	mg/L		03/18/22 19:48	03/21/22 11:13	1
Benzo[a]pyrene	<0.0000572	U	0.000182	0.0000572	mg/L		03/18/22 19:48	03/21/22 11:13	1
Benzo[b]fluoranthene	<0.0000701	U	0.000182	0.0000701	mg/L		03/18/22 19:48	03/21/22 11:13	1
Benzo[g,h,i]perylene	<0.000113	U	0.000182	0.000113	mg/L		03/18/22 19:48	03/21/22 11:13	1
Benzo[k]fluoranthene	<0.000116	U	0.000182	0.000116	mg/L		03/18/22 19:48	03/21/22 11:13	1
Chrysene	<0.000156	U	0.000182	0.000156	mg/L		03/18/22 19:48	03/21/22 11:13	1
Dibenz(a,h)anthracene	<0.0000761	U	0.000182	0.0000761	mg/L		03/18/22 19:48	03/21/22 11:13	1
Dibenzofuran	<0.000100	U	0.000182	0.000100	mg/L		03/18/22 19:48	03/21/22 11:13	1
Fluoranthene	<0.000157	U	0.000182	0.000157	mg/L		03/18/22 19:48	03/21/22 11:13	1
Fluorene	<0.000101	U	0.000182	0.000101	mg/L		03/18/22 19:48	03/21/22 11:13	1
Indeno[1,2,3-cd]pyrene	<0.0000915	U	0.000182	0.0000915	mg/L		03/18/22 19:48	03/21/22 11:13	1
Naphthalene	<0.0000974	U	0.00365	0.0000974	mg/L		03/18/22 19:48	03/21/22 11:13	1
Phenanthrene	<0.0000852	U	0.000182	0.0000852	mg/L		03/18/22 19:48	03/21/22 11:13	1
Pyrene	<0.000130	U	0.000182	0.000130	mg/L		03/18/22 19:48	03/21/22 11:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	146		54 - 146	03/18/22 19:48	03/21/22 11:13	1
Nitrobenzene-d5	132		46 - 151	03/18/22 19:48	03/21/22 11:13	1
p-Terphenyl-d14	147	S1+	51 - 139	03/18/22 19:48	03/21/22 11:13	1

Lab Sample ID: LCS 860-45602/2-A

Matrix: Water

Analysis Batch: 45678

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45602

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	0.0181	0.02201		mg/L		121	66 - 174
Acenaphthylene	0.0181	0.02182		mg/L		120	67 - 182
Anthracene	0.0181	0.02430		mg/L		134	55 - 191
Benzo[a]anthracene	0.0181	0.02211		mg/L		122	16 - 171
Benzo[a]pyrene	0.0181	0.02419		mg/L		133	10 - 165
Benzo[b]fluoranthene	0.0181	0.02551		mg/L		141	10 - 166
Benzo[g,h,i]perylene	0.0181	0.02273		mg/L		125	10 - 154
Benzo[k]fluoranthene	0.0181	0.02349		mg/L		129	10 - 178
Chrysene	0.0181	0.02178		mg/L		120	10 - 172
Dibenz(a,h)anthracene	0.0181	0.02433		mg/L		134	10 - 168
Dibenzofuran	0.0181	0.02248		mg/L		124	68 - 178
Fluoranthene	0.0181	0.02444		mg/L		135	52 - 185
Fluorene	0.0181	0.02273		mg/L		125	64 - 184
Indeno[1,2,3-cd]pyrene	0.0181	0.02677		mg/L		147	10 - 160
Naphthalene	0.0181	0.02094		mg/L		115	66 - 166
Phenanthrene	0.0181	0.02248		mg/L		124	66 - 184
Pyrene	0.0181	0.02268		mg/L		125	58 - 181

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	128		54 - 146

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

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

Lab Sample ID: LCS 860-45602/2-A

Matrix: Water

Analysis Batch: 45678

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 45602

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Nitrobenzene-d5	128		46 - 151
p-Terphenyl-d14	126		51 - 139

Lab Sample ID: LCSD 860-45602/3-A

Matrix: Water

Analysis Batch: 45678

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45602

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	0.0182	0.02457		mg/L		135	66 - 174	11	40
Acenaphthylene	0.0182	0.02456		mg/L		135	67 - 182	12	40
Anthracene	0.0182	0.02695		mg/L		148	55 - 191	10	40
Benzo[a]anthracene	0.0182	0.02296		mg/L		126	16 - 171	4	50
Benzo[a]pyrene	0.0182	0.02409		mg/L		132	10 - 165	0	50
Benzo[b]fluoranthene	0.0182	0.02579		mg/L		141	10 - 166	1	50
Benzo[g,h,i]perylene	0.0182	0.02223		mg/L		122	10 - 154	2	50
Benzo[k]fluoranthene	0.0182	0.02318		mg/L		127	10 - 178	1	50
Chrysene	0.0182	0.02285		mg/L		125	10 - 172	5	50
Dibenz(a,h)anthracene	0.0182	0.02392		mg/L		131	10 - 168	2	50
Dibenzofuran	0.0182	0.02503		mg/L		137	68 - 178	11	40
Fluoranthene	0.0182	0.02665		mg/L		146	52 - 185	9	40
Fluorene	0.0182	0.02523		mg/L		138	64 - 184	10	40
Indeno[1,2,3-cd]pyrene	0.0182	0.02634		mg/L		144	10 - 160	2	50
Naphthalene	0.0182	0.02428		mg/L		133	66 - 166	15	40
Phenanthrene	0.0182	0.02483		mg/L		136	66 - 184	10	40
Pyrene	0.0182	0.02543		mg/L		139	58 - 181	11	40

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	137		54 - 146
Nitrobenzene-d5	138		46 - 151
p-Terphenyl-d14	130		51 - 139

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21823/5-A

Matrix: Water

Analysis Batch: 22265

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21823

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/24/22 07:30	03/24/22 17:25	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/24/22 07:30	03/24/22 17:25	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/24/22 07:30	03/24/22 17:25	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/24/22 07:30	03/24/22 17:25	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/24/22 07:30	03/24/22 17:25	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/24/22 07:30	03/24/22 17:25	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
4-Bromofluorobenzene (Surr)	98		70 - 130	03/24/22 07:30	03/24/22 17:25	1			
1,4-Difluorobenzene (Surr)	102		70 - 130	03/24/22 07:30	03/24/22 17:25	1			

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21852/5-A

Matrix: Water

Analysis Batch: 22187

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		03/23/22 07:30	03/23/22 12:49	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		03/23/22 07:30	03/23/22 12:49	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		03/23/22 07:30	03/23/22 12:49	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		03/23/22 07:30	03/23/22 12:49	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		03/23/22 07:30	03/23/22 12:49	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		03/23/22 07:30	03/23/22 12:49	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	03/23/22 07:30	03/23/22 12:49	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/23/22 07:30	03/23/22 12:49	1

Lab Sample ID: MB 880-22187/39

Matrix: Water

Analysis Batch: 22187

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/24/22 00:25	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/24/22 00:25	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/24/22 00:25	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/24/22 00:25	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/24/22 00:25	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/24/22 00:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130		03/24/22 00:25	1
1,4-Difluorobenzene (Surr)	98		70 - 130		03/24/22 00:25	1

Lab Sample ID: LCS 880-22187/34

Matrix: Water

Analysis Batch: 22187

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08615		mg/L		86	70 - 130
Toluene	0.100	0.08619		mg/L		86	70 - 130
Ethylbenzene	0.100	0.08574		mg/L		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1982		mg/L		99	70 - 130
o-Xylene	0.100	0.1001		mg/L		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-22187/35

Matrix: Water

Analysis Batch: 22187

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08363		mg/L		84	70 - 130	3	20

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

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

Lab Sample ID: LCSD 880-22187/35

Matrix: Water

Analysis Batch: 22187

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08001		mg/L		80	70 - 130	7	20
Ethylbenzene	0.100	0.08117		mg/L		81	70 - 130	5	20
m-Xylene & p-Xylene	0.200	0.1853		mg/L		93	70 - 130	7	20
o-Xylene	0.100	0.09285		mg/L		93	70 - 130	8	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	92		70 - 130						
1,4-Difluorobenzene (Surr)	103		70 - 130						

Lab Sample ID: 820-3678-1 MS

Matrix: Water

Analysis Batch: 22187

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.000408	U	0.100	0.08313		mg/L		83	70 - 130		
Toluene	<0.000367	U	0.100	0.08127		mg/L		81	70 - 130		
Ethylbenzene	<0.000657	U	0.100	0.08213		mg/L		82	70 - 130		
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1928		mg/L		96	70 - 130		
o-Xylene	<0.000642	U	0.100	0.09702		mg/L		97	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
4-Bromofluorobenzene (Surr)	94		70 - 130								
1,4-Difluorobenzene (Surr)	102		70 - 130								

Lab Sample ID: 820-3678-1 MSD

Matrix: Water

Analysis Batch: 22187

Client Sample ID: MW-2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.000408	U	0.100	0.08182		mg/L		82	70 - 130	2	25
Toluene	<0.000367	U	0.100	0.08165		mg/L		82	70 - 130	0	25
Ethylbenzene	<0.000657	U	0.100	0.08230		mg/L		82	70 - 130	0	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.1921		mg/L		96	70 - 130	0	25
o-Xylene	<0.000642	U	0.100	0.09529		mg/L		95	70 - 130	2	25
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	91		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

Lab Sample ID: MB 880-22265/39

Matrix: Water

Analysis Batch: 22265

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/25/22 05:02	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/25/22 05:02	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/25/22 05:02	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/25/22 05:02	1

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

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

Lab Sample ID: MB 880-22265/39

Matrix: Water

Analysis Batch: 22265

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/25/22 05:02	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/25/22 05:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130					03/25/22 05:02	1
1,4-Difluorobenzene (Surr)	101		70 - 130					03/25/22 05:02	1

Lab Sample ID: LCS 880-22265/34

Matrix: Water

Analysis Batch: 22265

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08847		mg/L		88	70 - 130
Toluene	0.100	0.08497		mg/L		85	70 - 130
Ethylbenzene	0.100	0.09013		mg/L		90	70 - 130
m-Xylene & p-Xylene	0.200	0.2092		mg/L		105	70 - 130
o-Xylene	0.100	0.1045		mg/L		105	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	99		70 - 130				
1,4-Difluorobenzene (Surr)	103		70 - 130				

Lab Sample ID: LCSD 880-22265/35

Matrix: Water

Analysis Batch: 22265

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09222		mg/L		92	70 - 130	4	20
Toluene	0.100	0.08628		mg/L		86	70 - 130	2	20
Ethylbenzene	0.100	0.08990		mg/L		90	70 - 130	0	20
m-Xylene & p-Xylene	0.200	0.2081		mg/L		104	70 - 130	1	20
o-Xylene	0.100	0.1047		mg/L		105	70 - 130	0	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		70 - 130						
1,4-Difluorobenzene (Surr)	107		70 - 130						

Lab Sample ID: 820-3678-6 MS

Matrix: Water

Analysis Batch: 22265

Client Sample ID: MW-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.000408	U	0.100	0.09033		mg/L		90	70 - 130
Toluene	0.000674	J F2 F1	0.100	0.08631		mg/L		86	70 - 130
Ethylbenzene	<0.000657	U	0.100	0.09064		mg/L		91	70 - 130
m-Xylene & p-Xylene	<0.000629	U	0.200	0.2108		mg/L		105	70 - 130
o-Xylene	<0.000642	U	0.100	0.1046		mg/L		105	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

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

Lab Sample ID: 820-3678-6 MS

Matrix: Water

Analysis Batch: 22265

Client Sample ID: MW-7

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 820-3678-6 MSD

Matrix: Water

Analysis Batch: 22265

Client Sample ID: MW-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.000408	U	0.100	0.09011		mg/L		90	70 - 130	0	25
Toluene	0.000674	J F2 F1	0.100	0.03878	F2 F1	mg/L		38	70 - 130	76	25
Ethylbenzene	<0.000657	U	0.100	0.08917		mg/L		89	70 - 130	2	25
m-Xylene & p-Xylene	<0.000629	U	0.200	0.2073		mg/L		104	70 - 130	2	25
o-Xylene	<0.000642	U	0.100	0.1026		mg/L		103	70 - 130	2	25
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	97		70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

GC/MS Semi VOA

Prep Batch: 45602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-1	MW-2	Total/NA	Water	3511	
820-3678-2	MW-3	Total/NA	Water	3511	
820-3678-3	MW-4	Total/NA	Water	3511	
820-3678-4	MW-5	Total/NA	Water	3511	
820-3678-5	MW-6	Total/NA	Water	3511	
820-3678-6	MW-7	Total/NA	Water	3511	
820-3678-7	MW-8	Total/NA	Water	3511	
MB 860-45602/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-45602/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-45602/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 45678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-1	MW-2	Total/NA	Water	8270D SIM	45602
820-3678-2	MW-3	Total/NA	Water	8270D SIM	45602
820-3678-3	MW-4	Total/NA	Water	8270D SIM	45602
820-3678-4	MW-5	Total/NA	Water	8270D SIM	45602
820-3678-5	MW-6	Total/NA	Water	8270D SIM	45602
820-3678-6	MW-7	Total/NA	Water	8270D SIM	45602
820-3678-7	MW-8	Total/NA	Water	8270D SIM	45602
MB 860-45602/1-A	Method Blank	Total/NA	Water	8270D SIM	45602
LCS 860-45602/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	45602
LCSD 860-45602/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	45602

GC VOA

Prep Batch: 21823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21823/5-A	Method Blank	Total/NA	Water	5035	

Prep Batch: 21852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21852/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 22187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-1	MW-2	Total/NA	Water	8021B	
820-3678-2	MW-3	Total/NA	Water	8021B	
820-3678-3	MW-4	Total/NA	Water	8021B	
820-3678-4	MW-5	Total/NA	Water	8021B	
820-3678-5	MW-6	Total/NA	Water	8021B	
MB 880-21852/5-A	Method Blank	Total/NA	Water	8021B	21852
MB 880-22187/39	Method Blank	Total/NA	Water	8021B	
LCS 880-22187/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-22187/35	Lab Control Sample Dup	Total/NA	Water	8021B	
820-3678-1 MS	MW-2	Total/NA	Water	8021B	
820-3678-1 MSD	MW-2	Total/NA	Water	8021B	

Analysis Batch: 22265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-6	MW-7	Total/NA	Water	8021B	

Eurofins Lubbock

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

GC VOA (Continued)

Analysis Batch: 22265 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-7	MW-8	Total/NA	Water	8021B	21823
MB 880-21823/5-A	Method Blank	Total/NA	Water	8021B	
MB 880-22265/39	Method Blank	Total/NA	Water	8021B	
LCS 880-22265/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-22265/35	Lab Control Sample Dup	Total/NA	Water	8021B	
820-3678-6 MS	MW-7	Total/NA	Water	8021B	
820-3678-6 MSD	MW-7	Total/NA	Water	8021B	

Analysis Batch: 22304

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-3678-1	MW-2	Total/NA	Water	Total BTEX	
820-3678-2	MW-3	Total/NA	Water	Total BTEX	
820-3678-3	MW-4	Total/NA	Water	Total BTEX	
820-3678-4	MW-5	Total/NA	Water	Total BTEX	
820-3678-5	MW-6	Total/NA	Water	Total BTEX	
820-3678-6	MW-7	Total/NA	Water	Total BTEX	
820-3678-7	MW-8	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Client Sample ID: MW-2

Lab Sample ID: 820-3678-1

Date Collected: 03/14/22 14:35

Matrix: Water

Date Received: 03/16/22 11:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.5 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 13:09	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22187	03/24/22 00:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

Client Sample ID: MW-3

Lab Sample ID: 820-3678-2

Date Collected: 03/14/22 15:30

Matrix: Water

Date Received: 03/16/22 11:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.2 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 13:28	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22187	03/24/22 01:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

Client Sample ID: MW-4

Lab Sample ID: 820-3678-3

Date Collected: 03/14/22 16:45

Matrix: Water

Date Received: 03/16/22 11:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.4 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 13:48	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22187	03/24/22 01:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

Client Sample ID: MW-5

Lab Sample ID: 820-3678-4

Date Collected: 03/14/22 17:30

Matrix: Water

Date Received: 03/16/22 11:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.3 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 14:07	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22187	03/24/22 01:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

Client Sample ID: MW-6

Lab Sample ID: 820-3678-5

Date Collected: 03/14/22 11:20

Matrix: Water

Date Received: 03/16/22 11:56

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.4 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 14:27	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22187	03/24/22 02:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Client Sample ID: MW-7
Date Collected: 03/14/22 12:30
Date Received: 03/16/22 11:56

Lab Sample ID: 820-3678-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55.2 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 14:46	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22265	03/25/22 05:30	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

Client Sample ID: MW-8
Date Collected: 03/14/22 13:35
Date Received: 03/16/22 11:56

Lab Sample ID: 820-3678-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3511			55 mL	2 mL	45602	03/18/22 19:48	MR	XEN STF
Total/NA	Analysis	8270D SIM		1			45678	03/21/22 15:05	IS	XEN STF
Total/NA	Analysis	8021B		1	5 mL	5 mL	22265	03/25/22 05:51	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			22304	03/24/22 16:40	AJ	XEN MID

Laboratory References:

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

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22
USDA	US Federal Programs	P330-22-00025	03-02-23

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

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

Protocol References:

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-3678-1
SDG: AR227008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-3678-1	MW-2	Water	03/14/22 14:35	03/16/22 11:56
820-3678-2	MW-3	Water	03/14/22 15:30	03/16/22 11:56
820-3678-3	MW-4	Water	03/14/22 16:45	03/16/22 11:56
820-3678-4	MW-5	Water	03/14/22 17:30	03/16/22 11:56
820-3678-5	MW-6	Water	03/14/22 11:20	03/16/22 11:56
820-3678-6	MW-7	Water	03/14/22 12:30	03/16/22 11:56
820-3678-7	MW-8	Water	03/14/22 13:35	03/16/22 11:56

3678

Loc: 820
3678

[illegible]

Eurofins Lubbock

6701 Aberdeen Ave. Suite 8

Lubbock TX 79424

Phone: 806-794-1296

Chain of Custody Record



**Environment Testing
America**

Client Information (Sub Contract Lab)						Lab PM:		Carrier Tracking No(s):		COC No:		
Client Contact Shipping/Receiving						Phone:		E-Mail: jessica.kramer@eurofinset.com		State of Origin: Texas		
Company: Eurofins Environment Testing South Centr						Accreditations Required (See note): NELAP Texas				Page: Page 1 of 1		
Address: 4145 Greenbriar Dr						Due Date Requested: 3/22/2022		Analysis Requested		Job #: 820-3678-1		
City: Stafford						TAT Requested (days):		Retained Sample (see note) 82700_SIM3511 Polycyclic Aromatic Hydrocarbons (PAHs)		Preservation Codes:		
State, Zip: TX, 77477										A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Z other (specify)		
Phone: 281-240-4200(Tel)						PO #:				Other:		
Email:						WO #:						
Project Name: DCP #2						Project #: 82000654						
Site:						SSOW#:						
Sample Identification - Client ID (Lab ID)						Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Waste)	Special Instructions/Note:		
MW-2 (820-3678-1)						3/14/22	14:35 Central	Water	X			
MW-3 (820-3678-2)						3/14/22	15:30 Central	Water	X			
MW-4 (820-3678-3)						3/14/22	16:45 Central	Water	X			
MW-5 (820-3678-4)						3/14/22	17:30 Central	Water	X			
MW-6 (820-3678-5)						3/14/22	11:20 Central	Water	X			
MW-7 (820-3678-6)						3/14/22	12:30 Central	Water	X			
MW-8 (820-3678-7)						3/14/22	13:35 Central	Water	X			
									Temp: IRID:HOU-223			
									C/F -0.1 38			
									Corrected Temp: 37			
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.												
Possible Hazard Identification									Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)			
Unconfirmed									☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months			
Deliverable Requested: I II III IV Other (specify)						Primary Deliverable Rank: 2			Special Instructions/QC Requirements.			
Empty Kit Relinquished by						Date:		Time:		Method of Shipment:		
Relinquished by: [Signature]						Date/Time: 3/16/22 17:00		Company:		Received by: [Signature] Date/Time: 3/16/22 1645 Company: EX		
Relinquished by: [Signature]						Date/Time:		Company:		Received by: [Signature] Date/Time: Company:		
Relinquished by:						Date/Time:		Company:		Received by: [Signature] Date/Time: Company:		
Custody Seals Intact Δ Yes Δ No			Custody Seal No.			Cooler Temperature(s) °C and Other Remarks:						

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3678-1

SDG Number: AR227008

Login Number: 3678

List Number: 1

Creator: Ruggles, Ashley

List Source: Eurofins Lubbock

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3678-1

SDG Number: AR227008

Login Number: 3678

List Number: 3

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 03/17/22 01:06 PM

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-3678-1

SDG Number: AR227008

Login Number: 3678

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 03/17/22 10:31 AM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-4628-1

Laboratory Sample Delivery Group: AR217008

Client Project/Site: DCP #2

For:

Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Attn: Brett Dennis

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

Authorized for release by:

6/21/2022 11:02:57 AM

Jessica Kramer, Project Manager

(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Laboratory Job ID: 820-4628-1
SDG: AR217008

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

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by EQC field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. EQC is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· EQC is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by EQC: Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Jessica Kramer
Project Manager
6/21/2022 11:02:57 AM

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Laboratory Job ID: 820-4628-1
SDG: AR217008

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	15
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

Qualifiers

GC VOA

Qualifier	Qualifier Description
J	Result is less than the MQL but greater than or equal to the SDL and the concentration is an estimated value.
U	Analyte was not detected at or above the SDL.

Glossary

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

Job ID: 820-4628-1

Laboratory: Eurofins Lubbock

Narrative	
	Job Narrative 820-4628-1

Receipt

The samples were received on 6/15/2022 11:45 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 5.0°C

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: DUP-1 (820-4628-8). 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.

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

Client Sample ID: MW-2

Lab Sample ID: 820-4628-1

Date Collected: 06/14/22 11:35

Matrix: Water

Date Received: 06/15/22 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/18/22 00:52	1
Toluene	0.000752	J	0.00200	0.000367	mg/L			06/18/22 00:52	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/18/22 00:52	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 00:52	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/18/22 00:52	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130		06/18/22 00:52	1
1,4-Difluorobenzene (Surr)	96		70 - 130		06/18/22 00:52	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000752	J	0.00400	0.000657	mg/L			06/20/22 13:47	1

Client Sample ID: MW-3

Lab Sample ID: 820-4628-2

Date Collected: 06/14/22 12:25

Matrix: Water

Date Received: 06/15/22 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/18/22 01:13	1
Toluene	0.000673	J	0.00200	0.000367	mg/L			06/18/22 01:13	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/18/22 01:13	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 01:13	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/18/22 01:13	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		06/18/22 01:13	1
1,4-Difluorobenzene (Surr)	98		70 - 130		06/18/22 01:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000673	J	0.00400	0.000657	mg/L			06/20/22 13:47	1

Client Sample ID: MW-4

Lab Sample ID: 820-4628-3

Date Collected: 06/14/22 13:30

Matrix: Water

Date Received: 06/15/22 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/18/22 01:33	1
Toluene	0.000383	J	0.00200	0.000367	mg/L			06/18/22 01:33	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/18/22 01:33	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 01:33	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/18/22 01:33	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130		06/18/22 01:33	1
1,4-Difluorobenzene (Surr)	99		70 - 130		06/18/22 01:33	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

Client Sample ID: MW-4

Lab Sample ID: 820-4628-3

Date Collected: 06/14/22 13:30

Matrix: Water

Date Received: 06/15/22 11:45

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			06/20/22 13:47	1

Client Sample ID: MW-5

Lab Sample ID: 820-4628-4

Date Collected: 06/14/22 14:15

Matrix: Water

Date Received: 06/15/22 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.622		0.0400	0.00816	mg/L			06/21/22 06:13	20
Toluene	0.00171	J	0.00200	0.000367	mg/L			06/18/22 01:53	1
Ethylbenzene	0.0577		0.00200	0.000657	mg/L			06/18/22 01:53	1
m-Xylene & p-Xylene	0.0373		0.00400	0.000629	mg/L			06/18/22 01:53	1
o-Xylene	0.00162	J	0.00200	0.000642	mg/L			06/18/22 01:53	1
Xylenes, Total	0.0389		0.00400	0.000642	mg/L			06/18/22 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130		06/18/22 01:53	1
1,4-Difluorobenzene (Surr)	101		70 - 130		06/18/22 01:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.720		0.00400	0.000657	mg/L			06/20/22 13:47	1

Client Sample ID: MW-6

Lab Sample ID: 820-4628-5

Date Collected: 06/14/22 16:30

Matrix: Water

Date Received: 06/15/22 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.000537	J	0.00200	0.000408	mg/L			06/18/22 04:24	1
Toluene	0.000706	J	0.00200	0.000367	mg/L			06/18/22 04:24	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/18/22 04:24	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 04:24	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/18/22 04:24	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130		06/18/22 04:24	1
1,4-Difluorobenzene (Surr)	100		70 - 130		06/18/22 04:24	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00124	J	0.00400	0.000657	mg/L			06/20/22 13:47	1

Client Sample ID: MW-7

Lab Sample ID: 820-4628-6

Date Collected: 06/14/22 17:50

Matrix: Water

Date Received: 06/15/22 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/18/22 04:45	1
Toluene	0.000403	J	0.00200	0.000367	mg/L			06/18/22 04:45	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

Client Sample ID: MW-7

Lab Sample ID: 820-4628-6

Date Collected: 06/14/22 17:50

Matrix: Water

Date Received: 06/15/22 11:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/18/22 04:45	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 04:45	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/18/22 04:45	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 04:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130					06/18/22 04:45	1
1,4-Difluorobenzene (Surr)	100		70 - 130					06/18/22 04:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			06/20/22 13:47	1

Client Sample ID: MW-8

Lab Sample ID: 820-4628-7

Date Collected: 06/14/22 18:40

Matrix: Water

Date Received: 06/15/22 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/18/22 05:05	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/18/22 05:05	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/18/22 05:05	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/18/22 05:05	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/18/22 05:05	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/18/22 05:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130					06/18/22 05:05	1
1,4-Difluorobenzene (Surr)	100		70 - 130					06/18/22 05:05	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.000657	U	0.00400	0.000657	mg/L			06/20/22 13:47	1

Client Sample ID: DUP-1

Lab Sample ID: 820-4628-8

Date Collected: 06/14/22 00:00

Matrix: Water

Date Received: 06/15/22 11:45

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.568		0.0400	0.00816	mg/L			06/21/22 06:40	20
Toluene	0.00133	J	0.00200	0.000367	mg/L			06/18/22 05:26	1
Ethylbenzene	0.0456		0.00200	0.000657	mg/L			06/18/22 05:26	1
m-Xylene & p-Xylene	0.0292		0.00400	0.000629	mg/L			06/18/22 05:26	1
o-Xylene	0.00144	J	0.00200	0.000642	mg/L			06/18/22 05:26	1
Xylenes, Total	0.0306		0.00400	0.000642	mg/L			06/18/22 05:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130					06/18/22 05:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130					06/18/22 05:26	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

Client Sample ID: DUP-1 Lab Sample ID: 820-4628-8
Date Collected: 06/14/22 00:00 Matrix: Water
Date Received: 06/15/22 11:45

Method: Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.646		0.00400	0.000657	mg/L			06/20/22 13:47	1

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

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
820-4628-1	MW-2	98	96
820-4628-2	MW-3	96	98
820-4628-3	MW-4	105	99
820-4628-4	MW-5	86	101
820-4628-5	MW-6	101	100
820-4628-6	MW-7	89	100
820-4628-7	MW-8	91	100
820-4628-8	DUP-1	86	101
LCS 880-27744/34	Lab Control Sample	96	100
LCS 880-27881/34	Lab Control Sample	103	94
LCSD 880-27744/35	Lab Control Sample Dup	99	98
LCSD 880-27881/35	Lab Control Sample Dup	127	96
MB 880-27544/5-A	Method Blank	94	98
MB 880-27744/39	Method Blank	96	97
MB 880-27836/5-A	Method Blank	93	89
MB 880-27881/39	Method Blank	97	87
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-27544/5-A

Matrix: Water

Analysis Batch: 27744

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		06/14/22 16:18	06/17/22 11:23	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		06/14/22 16:18	06/17/22 11:23	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		06/14/22 16:18	06/17/22 11:23	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		06/14/22 16:18	06/17/22 11:23	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		06/14/22 16:18	06/17/22 11:23	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		06/14/22 16:18	06/17/22 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	06/14/22 16:18	06/17/22 11:23	1
1,4-Difluorobenzene (Surr)	98		70 - 130	06/14/22 16:18	06/17/22 11:23	1

Lab Sample ID: MB 880-27744/39

Matrix: Water

Analysis Batch: 27744

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/17/22 23:01	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/17/22 23:01	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/17/22 23:01	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/17/22 23:01	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/17/22 23:01	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/17/22 23:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		06/17/22 23:01	1
1,4-Difluorobenzene (Surr)	97		70 - 130		06/17/22 23:01	1

Lab Sample ID: LCS 880-27744/34

Matrix: Water

Analysis Batch: 27744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09224		mg/L		92	70 - 130
Toluene	0.100	0.08672		mg/L		87	70 - 130
Ethylbenzene	0.100	0.08921		mg/L		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1765		mg/L		88	70 - 130
o-Xylene	0.100	0.09775		mg/L		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-27744/35

Matrix: Water

Analysis Batch: 27744

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	0.100	0.08991		mg/L		90	70 - 130	3	20

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

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

Lab Sample ID: LCSD 880-27744/35

Matrix: Water

Analysis Batch: 27744

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08885		mg/L		89	70 - 130	2	20
Ethylbenzene	0.100	0.09146		mg/L		91	70 - 130	2	20
m-Xylene & p-Xylene	0.200	0.1831		mg/L		92	70 - 130	4	20
o-Xylene	0.100	0.1011		mg/L		101	70 - 130	3	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: MB 880-27836/5-A

Matrix: Water

Analysis Batch: 27881

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27836

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		06/17/22 16:16	06/20/22 12:57	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		06/17/22 16:16	06/20/22 12:57	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		06/17/22 16:16	06/20/22 12:57	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		06/17/22 16:16	06/20/22 12:57	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		06/17/22 16:16	06/20/22 12:57	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		06/17/22 16:16	06/20/22 12:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130	06/17/22 16:16	06/20/22 12:57	1
1,4-Difluorobenzene (Surr)	89		70 - 130	06/17/22 16:16	06/20/22 12:57	1

Lab Sample ID: MB 880-27881/39

Matrix: Water

Analysis Batch: 27881

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			06/21/22 02:24	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			06/21/22 02:24	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			06/21/22 02:24	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			06/21/22 02:24	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			06/21/22 02:24	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			06/21/22 02:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130		06/21/22 02:24	1
1,4-Difluorobenzene (Surr)	87		70 - 130		06/21/22 02:24	1

Lab Sample ID: LCS 880-27881/34

Matrix: Water

Analysis Batch: 27881

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08703		mg/L		87	70 - 130
Toluene	0.100	0.08921		mg/L		89	70 - 130

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

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

Lab Sample ID: LCS 880-27881/34

Matrix: Water

Analysis Batch: 27881

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	0.100	0.09521		mg/L		95	70 - 130
m-Xylene & p-Xylene	0.200	0.1873		mg/L		94	70 - 130
o-Xylene	0.100	0.09385		mg/L		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-27881/35

Matrix: Water

Analysis Batch: 27881

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08987		mg/L		90	70 - 130	3	20
Toluene	0.100	0.09108		mg/L		91	70 - 130	2	20
Ethylbenzene	0.100	0.09636		mg/L		96	70 - 130	1	20
m-Xylene & p-Xylene	0.200	0.1918		mg/L		96	70 - 130	2	20
o-Xylene	0.100	0.09599		mg/L		96	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	127		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

GC VOA

Prep Batch: 27544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27544/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 27744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4628-1	MW-2	Total/NA	Water	8021B	
820-4628-2	MW-3	Total/NA	Water	8021B	
820-4628-3	MW-4	Total/NA	Water	8021B	
820-4628-4	MW-5	Total/NA	Water	8021B	
820-4628-5	MW-6	Total/NA	Water	8021B	
820-4628-6	MW-7	Total/NA	Water	8021B	
820-4628-7	MW-8	Total/NA	Water	8021B	
820-4628-8	DUP-1	Total/NA	Water	8021B	
MB 880-27544/5-A	Method Blank	Total/NA	Water	8021B	27544
MB 880-27744/39	Method Blank	Total/NA	Water	8021B	
LCS 880-27744/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-27744/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Prep Batch: 27836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27836/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 27881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4628-4	MW-5	Total/NA	Water	8021B	
820-4628-8	DUP-1	Total/NA	Water	8021B	
MB 880-27836/5-A	Method Blank	Total/NA	Water	8021B	27836
MB 880-27881/39	Method Blank	Total/NA	Water	8021B	
LCS 880-27881/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-27881/35	Lab Control Sample Dup	Total/NA	Water	8021B	

Analysis Batch: 27916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-4628-1	MW-2	Total/NA	Water	Total BTEX	
820-4628-2	MW-3	Total/NA	Water	Total BTEX	
820-4628-3	MW-4	Total/NA	Water	Total BTEX	
820-4628-4	MW-5	Total/NA	Water	Total BTEX	
820-4628-5	MW-6	Total/NA	Water	Total BTEX	
820-4628-6	MW-7	Total/NA	Water	Total BTEX	
820-4628-7	MW-8	Total/NA	Water	Total BTEX	
820-4628-8	DUP-1	Total/NA	Water	Total BTEX	

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

Client Sample ID: MW-2

Date Collected: 06/14/22 11:35

Date Received: 06/15/22 11:45

Lab Sample ID: 820-4628-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 00:52	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

Client Sample ID: MW-3

Date Collected: 06/14/22 12:25

Date Received: 06/15/22 11:45

Lab Sample ID: 820-4628-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 01:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

Client Sample ID: MW-4

Date Collected: 06/14/22 13:30

Date Received: 06/15/22 11:45

Lab Sample ID: 820-4628-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 01:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

Client Sample ID: MW-5

Date Collected: 06/14/22 14:15

Date Received: 06/15/22 11:45

Lab Sample ID: 820-4628-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 01:53	MR	XEN MID
Total/NA	Analysis	8021B		20			27881	06/21/22 06:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

Client Sample ID: MW-6

Date Collected: 06/14/22 16:30

Date Received: 06/15/22 11:45

Lab Sample ID: 820-4628-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 04:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

Client Sample ID: MW-7

Date Collected: 06/14/22 17:50

Date Received: 06/15/22 11:45

Lab Sample ID: 820-4628-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 04:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

Client Sample ID: MW-8
Date Collected: 06/14/22 18:40
Date Received: 06/15/22 11:45

Lab Sample ID: 820-4628-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 05:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

Client Sample ID: DUP-1
Date Collected: 06/14/22 00:00
Date Received: 06/15/22 11:45

Lab Sample ID: 820-4628-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	27744	06/18/22 05:26	MR	XEN MID
Total/NA	Analysis	8021B		20			27881	06/21/22 06:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27916	06/20/22 13:47	AJ	XEN MID

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

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

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

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

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-4628-1
SDG: AR217008

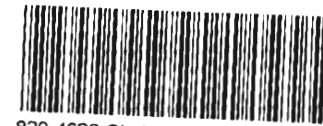
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-4628-1	MW-2	Water	06/14/22 11:35	06/15/22 11:45
820-4628-2	MW-3	Water	06/14/22 12:25	06/15/22 11:45
820-4628-3	MW-4	Water	06/14/22 13:30	06/15/22 11:45
820-4628-4	MW-5	Water	06/14/22 14:15	06/15/22 11:45
820-4628-5	MW-6	Water	06/14/22 16:30	06/15/22 11:45
820-4628-6	MW-7	Water	06/14/22 17:50	06/15/22 11:45
820-4628-7	MW-8	Water	06/14/22 18:40	06/15/22 11:45
820-4628-8	DUP-1	Water	06/14/22 00:00	06/15/22 11:45

Loc: 820
4628

4628

CHAIN OF CUSTODY RECORD

Terracon		Laboratory: Xenco		ANALYSIS REQUESTED		LAB USE ONLY	
		Address: 6701 Aberdeen Lubbock, Texas 79424				DUE DATE:	
Office Location: Lubbock		Phone: _____		BTEX (EPA Method 8021)		TEMP OF COOLER WHEN RECEIVED (°C) 5.1/5.0°C	
Project Manager: Brett Dennis		Contact: _____				Page 1 of 1	
Sampler's Name: Aaron Adams		SRS #: 2009-039					
Project Number: AR217008		Project Name: DCP #2		No. Type of Containers		Lab Sample ID	
Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth
GW	6/14/2022	1135		X	MW-2		
GW	6/14/2022	1225		X	MW-3		
GW	6/14/2022	1330		X	MW-4		
GW	6/14/2022	1415		X	MW-5		
GW	6/14/2022	1630		X	MW-6		
GW	6/14/2022	1750		X	MW-7		
GW	6/14/2022	1840		X	MW-8		
GW	6/14/2022	-		X	DUP-1		
TURNAROUND TIME ☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush TRRP Laboratory Review Checklist ☐ Yes ☐ No							
Relinquished by (Signature): <i>[Signature]</i>		Date: 6-15-2022	Time: 11:45		Received by (Signature): <i>[Signature]</i>		Date: 6/15/22
Relinquished by (Signature):		Date:	Time:		Received by (Signature):		Time: 11:45
Relinquished by (Signature):		Date:	Time:		Received by (Signature):		
Relinquished by (Signature):		Date:	Time:		Received by (Signature):		
NOTES: Bill directly to Plains Pipeline e-mail results to: brett.dennis@terracon.com erin.loyd@terracon.com algroves@paalp.com maochoa@paalp.com cjbryant@paalp.com							
Matrix: WW - Wastewater W - Water S - Sol L - Liquid A - Air Bag C - Charcoal tube SL - Sludge Container: VOA - 40 ml vial A/G - Amber Glass 1L 250 ml - Glass wide mouth P/O - Plastic or other _____							
Lubbock Office ■ 5847 50th Street ■ Lubbock, Texas 79424 ■ 806-300-0140 Responsive ■ Resourceful ■ Reliable							



820-4628 Chain of Custody

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4628-1

SDG Number: AR217008

Login Number: 4628

List Number: 1

Creator: Ruggles, Ashley

List Source: Eurofins Lubbock

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-4628-1

SDG Number: AR217008

Login Number: 4628

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 06/16/22 11:07 AM

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



Environment Testing America

ANALYTICAL REPORT

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock, TX 79424
Tel: (806)794-1296

Laboratory Job ID: 820-5728-1

Laboratory Sample Delivery Group: AR227008

Client Project/Site: DCP #2

For:

Terracon Consulting Eng & Scientists
5847 50th St
Lubbock, Texas 79424

Attn: Erin Lloyd

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

Authorized for release by:

9/14/2022 5:03:51 PM

Jessica Kramer, Project Manager
(432)704-5440

Jessica.Kramer@et.eurofinsus.com

LINKS

Review your project
results through



Have a Question?



Visit us at:

www.eurofinsus.com/Env

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

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

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Laboratory Job ID: 820-5728-1
SDG: AR227008

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

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Coliform MCLs

· Based on the EPA primary drinking water standard MCL for total coliforms, a water supply is considered bacteriologically "SAFE" if no coliform bacteria are detected. To be considered "SAFE" your report should indicate "<1 cfu/100mL" or "NEG" for the coliform test. If you report indicates a positive result "POS" or a value greater than or equal to one, then your supply is "UNSAFE FOR DRINKING" contact your local health department.

Warranties, Terms, and Conditions

· Analyses for Field Parameters are performed by Eurofins Philadelphia field staff. Locations and certifications are identified on the Chain of Custody as follows:

ERF = field staff performs tests under NJ State certification #02015

VL = field staff performs tests under NJ State certification #06005

WG = field staff performs tests under NJ State certification #PA001

H = field staff performs tests under NJ NELAP certification #PA093, PA NELAP certification # 46-

05499

· Test results meet all TNI or other applicable regulatory agency requirements, including holding times and preservation, unless otherwise indicated.

· The report shall not be reproduced, except in full, without the written consent of the laboratory

· All samples are collected as "grab" samples unless otherwise identified.

· Reported results related only to the samples as tested. Eurofins Philadelphia is not responsible for sample integrity unless sampling has been performed by a member of our staff.

· Eurofins Philadelphia is not responsible for sampling and/or testing omissions. Note that regulatory authorities may assess substantial fines for testing omissions. Please track your sample collection schedules and results on a regular basis (e.g. weekly, monthly, or quarterly) to ensure compliance.

· Eurofins' online data portal "TotalAccess" will provide you with real-time access to collection dates and testing results. Please contact Client Services for further information.

· The following personnel or their deputies have approved the results of the tests performed by Eurofins Philadelphia : Nicki Smith (Environmental Chemistry) and Jacqueline Gartner (Water Microbiology).



Jessica Kramer
Project Manager
9/14/2022 5:03:51 PM

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Laboratory Job ID: 820-5728-1
SDG: AR227008

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	14
Lab Chronicle	15
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	22

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Qualifiers

GC/MS 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.
X	Surrogate recovery exceeds control limits

Glossary

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

Case Narrative

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Job ID: 820-5728-1

Laboratory: Eurofins Lubbock

Narrative	
	Job Narrative 820-5728-1

Receipt

The samples were received on 9/9/2022 9:50 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 1.8°C

GC/MS VOA

Method 8260C: Surrogate, 4-Bromofluorobenzene (Surrogate) recovery for the following samples were outside control limits: MW-6 (820-5728-1), MW-7 (820-5728-2), MW-8 (820-5728-3), MW-4 (820-5728-6), MW-5 (820-5728-7) and (860-32970-C-1). This surrogate does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

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

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

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Client Sample ID: MW-6

Lab Sample ID: 820-5728-1

Date Collected: 09/07/22 10:50

Matrix: Water

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 02:59	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 02:59	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 02:59	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 02:59	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 02:59	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 02:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		09/13/22 02:59	1
4-Bromofluorobenzene (Surr)	126	X	74 - 124		09/13/22 02:59	1
Dibromofluoromethane (Surr)	95		75 - 131		09/13/22 02:59	1
Toluene-d8 (Surr)	103		80 - 117		09/13/22 02:59	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 16:26	1

Client Sample ID: MW-7

Lab Sample ID: 820-5728-2

Date Collected: 09/07/22 11:30

Matrix: Water

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 03:20	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 03:20	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 03:20	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 03:20	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 03:20	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 03:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		09/13/22 03:20	1
4-Bromofluorobenzene (Surr)	129	X	74 - 124		09/13/22 03:20	1
Dibromofluoromethane (Surr)	95		75 - 131		09/13/22 03:20	1
Toluene-d8 (Surr)	102		80 - 117		09/13/22 03:20	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 16:26	1

Client Sample ID: MW-8

Lab Sample ID: 820-5728-3

Date Collected: 09/07/22 12:32

Matrix: Water

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 03:41	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 03:41	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 03:41	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 03:41	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 03:41	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Client Sample ID: MW-8

Lab Sample ID: 820-5728-3

Date Collected: 09/07/22 12:32

Matrix: Water

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 03:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 144					09/13/22 03:41	1
4-Bromofluorobenzene (Surr)	125	X	74 - 124					09/13/22 03:41	1
Dibromofluoromethane (Surr)	100		75 - 131					09/13/22 03:41	1
Toluene-d8 (Surr)	104		80 - 117					09/13/22 03:41	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 16:26	1

Client Sample ID: MW-2

Lab Sample ID: 820-5728-4

Date Collected: 09/07/22 13:40

Matrix: Water

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 04:01	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 04:01	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 04:01	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:01	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 04:01	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 144					09/13/22 04:01	1
4-Bromofluorobenzene (Surr)	124		74 - 124					09/13/22 04:01	1
Dibromofluoromethane (Surr)	100		75 - 131					09/13/22 04:01	1
Toluene-d8 (Surr)	106		80 - 117					09/13/22 04:01	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 16:26	1

Client Sample ID: MW-3

Lab Sample ID: 820-5728-5

Date Collected: 09/07/22 14:30

Matrix: Water

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 04:22	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 04:22	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 04:22	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:22	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 04:22	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144					09/13/22 04:22	1
4-Bromofluorobenzene (Surr)	121		74 - 124					09/13/22 04:22	1
Dibromofluoromethane (Surr)	98		75 - 131					09/13/22 04:22	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Client Sample ID: MW-3

Lab Sample ID: 820-5728-5

Date Collected: 09/07/22 14:30

Matrix: Water

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 117		09/13/22 04:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 16:26	1

Client Sample ID: MW-4

Lab Sample ID: 820-5728-6

Date Collected: 09/07/22 15:26

Matrix: Water

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 04:42	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 04:42	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 04:42	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:42	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 04:42	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 144		09/13/22 04:42	1
4-Bromofluorobenzene (Surr)	125	X	74 - 124		09/13/22 04:42	1
Dibromofluoromethane (Surr)	101		75 - 131		09/13/22 04:42	1
Toluene-d8 (Surr)	103		80 - 117		09/13/22 04:42	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 16:26	1

Client Sample ID: MW-5

Lab Sample ID: 820-5728-7

Date Collected: 09/07/22 16:06

Matrix: Water

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00177		0.00100	0.000533	mg/L			09/13/22 06:45	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 06:45	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 06:45	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 06:45	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 06:45	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 06:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		09/13/22 06:45	1
4-Bromofluorobenzene (Surr)	127	X	74 - 124		09/13/22 06:45	1
Dibromofluoromethane (Surr)	99		75 - 131		09/13/22 06:45	1
Toluene-d8 (Surr)	105		80 - 117		09/13/22 06:45	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00177	J	0.0100	0.00124	mg/L			09/13/22 16:26	1

Eurofins Lubbock

Client Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Client Sample ID: MW-1

Lab Sample ID: 820-5728-8

Date Collected: 09/07/22 16:55

Matrix: Water

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0234		0.00100	0.000533	mg/L			09/13/22 12:36	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 12:36	1
Ethylbenzene	0.000453	J	0.00100	0.000411	mg/L			09/13/22 12:36	1
m,p-Xylenes	0.00134	J	0.0100	0.00124	mg/L			09/13/22 12:36	1
o-Xylene	0.000602	J	0.00100	0.000551	mg/L			09/13/22 12:36	1
Xylenes, Total	0.00194	J	0.0100	0.00124	mg/L			09/13/22 12:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		63 - 144		09/13/22 12:36	1
4-Bromofluorobenzene (Surr)	112		74 - 124		09/13/22 12:36	1
Dibromofluoromethane (Surr)	97		75 - 131		09/13/22 12:36	1
Toluene-d8 (Surr)	103		80 - 117		09/13/22 12:36	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0258		0.0100	0.00124	mg/L			09/14/22 16:34	1

Client Sample ID: DUP-1

Lab Sample ID: 820-5728-9

Date Collected: 09/07/22 00:00

Matrix: Water

Date Received: 09/09/22 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00175		0.00100	0.000533	mg/L			09/13/22 05:03	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 05:03	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 05:03	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 05:03	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 05:03	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 05:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 144		09/13/22 05:03	1
4-Bromofluorobenzene (Surr)	122		74 - 124		09/13/22 05:03	1
Dibromofluoromethane (Surr)	100		75 - 131		09/13/22 05:03	1
Toluene-d8 (Surr)	104		80 - 117		09/13/22 05:03	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00175	J	0.0100	0.00124	mg/L			09/13/22 16:26	1

Eurofins Lubbock

Surrogate Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-117)
820-5728-1	MW-6	102	126 X	95	103
820-5728-2	MW-7	102	129 X	95	102
820-5728-3	MW-8	103	125 X	100	104
820-5728-4	MW-2	100	124	100	106
820-5728-5	MW-3	101	121	98	103
820-5728-6	MW-4	106	125 X	101	103
820-5728-7	MW-5	99	127 X	99	105
820-5728-8	MW-1	105	112	97	103
820-5728-8 MS	MW-1	104	98	98	104
820-5728-9	DUP-1	107	122	100	104
LCS 860-68713/3	Lab Control Sample	106	99	103	101
LCS 860-68792/3	Lab Control Sample	106	101	98	103
LCSD 860-68713/4	Lab Control Sample Dup	97	94	102	101
LCSD 860-68792/4	Lab Control Sample Dup	105	99	98	101
MB 860-68713/8	Method Blank	99	122	104	103
MB 860-68792/8	Method Blank	101	119	96	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-68713/8

Matrix: Water

Analysis Batch: 68713

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 01:17	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 01:17	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 01:17	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 01:17	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 01:17	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 01:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144		09/13/22 01:17	1
4-Bromofluorobenzene (Surr)	122		74 - 124		09/13/22 01:17	1
Dibromofluoromethane (Surr)	104		75 - 131		09/13/22 01:17	1
Toluene-d8 (Surr)	103		80 - 117		09/13/22 01:17	1

Lab Sample ID: LCS 860-68713/3

Matrix: Water

Analysis Batch: 68713

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05214		mg/L		104	66 - 142
Toluene	0.0500	0.05098		mg/L		102	59 - 139
Ethylbenzene	0.0500	0.05037		mg/L		101	75 - 125
m,p-Xylenes	0.0500	0.05044		mg/L		101	75 - 125
o-Xylene	0.0500	0.05178		mg/L		104	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
Toluene-d8 (Surr)	101		80 - 117

Lab Sample ID: LCSD 860-68713/4

Matrix: Water

Analysis Batch: 68713

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05260		mg/L		105	66 - 142	1	25
Toluene	0.0500	0.05318		mg/L		106	59 - 139	4	25
Ethylbenzene	0.0500	0.05147		mg/L		103	75 - 125	2	25
m,p-Xylenes	0.0500	0.05270		mg/L		105	75 - 125	4	25
o-Xylene	0.0500	0.05335		mg/L		107	75 - 125	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		63 - 144
4-Bromofluorobenzene (Surr)	94		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	101		80 - 117

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-68792/8

Matrix: Water

Analysis Batch: 68792

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000533	U	0.00100	0.000533	mg/L			09/13/22 12:16	1
Toluene	<0.000475	U	0.00100	0.000475	mg/L			09/13/22 12:16	1
Ethylbenzene	<0.000411	U	0.00100	0.000411	mg/L			09/13/22 12:16	1
m,p-Xylenes	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 12:16	1
o-Xylene	<0.000551	U	0.00100	0.000551	mg/L			09/13/22 12:16	1
Xylenes, Total	<0.00124	U	0.0100	0.00124	mg/L			09/13/22 12:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 144		09/13/22 12:16	1
4-Bromofluorobenzene (Surr)	119		74 - 124		09/13/22 12:16	1
Dibromofluoromethane (Surr)	96		75 - 131		09/13/22 12:16	1
Toluene-d8 (Surr)	103		80 - 117		09/13/22 12:16	1

Lab Sample ID: LCS 860-68792/3

Matrix: Water

Analysis Batch: 68792

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05363		mg/L		107	66 - 142
Toluene	0.0500	0.05299		mg/L		106	59 - 139
Ethylbenzene	0.0500	0.05178		mg/L		104	75 - 125
m,p-Xylenes	0.0500	0.05303		mg/L		106	75 - 125
o-Xylene	0.0500	0.05353		mg/L		107	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		63 - 144
4-Bromofluorobenzene (Surr)	101		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	103		80 - 117

Lab Sample ID: LCSD 860-68792/4

Matrix: Water

Analysis Batch: 68792

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05425		mg/L		109	66 - 142	1	25
Toluene	0.0500	0.05379		mg/L		108	59 - 139	2	25
Ethylbenzene	0.0500	0.05275		mg/L		105	75 - 125	2	25
m,p-Xylenes	0.0500	0.05406		mg/L		108	75 - 125	2	25
o-Xylene	0.0500	0.05455		mg/L		109	75 - 125	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	101		80 - 117

Eurofins Lubbock

QC Sample Results

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 820-5728-8 MS

Matrix: Water

Analysis Batch: 68792

Client Sample ID: MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0234		0.0500	0.08045		mg/L		114	66 - 142
Toluene	<0.000475	U	0.0500	0.05829		mg/L		117	59 - 139
Ethylbenzene	0.000453	J	0.0500	0.05692		mg/L		113	75 - 125
m,p-Xylenes	0.00134	J	0.0500	0.05966		mg/L		117	75 - 125
o-Xylene	0.000602	J	0.0500	0.05852		mg/L		116	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	104		80 - 117

QC Association Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

GC/MS VOA

Analysis Batch: 68713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5728-1	MW-6	Total/NA	Water	8260C	
820-5728-2	MW-7	Total/NA	Water	8260C	
820-5728-3	MW-8	Total/NA	Water	8260C	
820-5728-4	MW-2	Total/NA	Water	8260C	
820-5728-5	MW-3	Total/NA	Water	8260C	
820-5728-6	MW-4	Total/NA	Water	8260C	
820-5728-7	MW-5	Total/NA	Water	8260C	
820-5728-9	DUP-1	Total/NA	Water	8260C	
MB 860-68713/8	Method Blank	Total/NA	Water	8260C	
LCS 860-68713/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-68713/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 68792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5728-8	MW-1	Total/NA	Water	8260C	
MB 860-68792/8	Method Blank	Total/NA	Water	8260C	
LCS 860-68792/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-68792/4	Lab Control Sample Dup	Total/NA	Water	8260C	
820-5728-8 MS	MW-1	Total/NA	Water	8260C	

Analysis Batch: 68880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5728-1	MW-6	Total/NA	Water	Total BTEX	
820-5728-2	MW-7	Total/NA	Water	Total BTEX	
820-5728-3	MW-8	Total/NA	Water	Total BTEX	
820-5728-4	MW-2	Total/NA	Water	Total BTEX	
820-5728-5	MW-3	Total/NA	Water	Total BTEX	
820-5728-6	MW-4	Total/NA	Water	Total BTEX	
820-5728-7	MW-5	Total/NA	Water	Total BTEX	
820-5728-9	DUP-1	Total/NA	Water	Total BTEX	

Analysis Batch: 69073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-5728-8	MW-1	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Client Sample ID: MW-6

Lab Sample ID: 820-5728-1

Date Collected: 09/07/22 10:50

Matrix: Water

Date Received: 09/09/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 02:59	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Client Sample ID: MW-7

Lab Sample ID: 820-5728-2

Date Collected: 09/07/22 11:30

Matrix: Water

Date Received: 09/09/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 03:20	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Client Sample ID: MW-8

Lab Sample ID: 820-5728-3

Date Collected: 09/07/22 12:32

Matrix: Water

Date Received: 09/09/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 03:41	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Client Sample ID: MW-2

Lab Sample ID: 820-5728-4

Date Collected: 09/07/22 13:40

Matrix: Water

Date Received: 09/09/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 04:01	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Client Sample ID: MW-3

Lab Sample ID: 820-5728-5

Date Collected: 09/07/22 14:30

Matrix: Water

Date Received: 09/09/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 04:22	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Client Sample ID: MW-4

Lab Sample ID: 820-5728-6

Date Collected: 09/07/22 15:26

Matrix: Water

Date Received: 09/09/22 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 04:42	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Eurofins Lubbock

Lab Chronicle

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Client Sample ID: MW-5
Date Collected: 09/07/22 16:06
Date Received: 09/09/22 09:50

Lab Sample ID: 820-5728-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 06:45	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

Client Sample ID: MW-1
Date Collected: 09/07/22 16:55
Date Received: 09/09/22 09:50

Lab Sample ID: 820-5728-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68792	09/13/22 12:36	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			69073	09/14/22 16:34	JBS	EET HOU

Client Sample ID: DUP-1
Date Collected: 09/07/22 00:00
Date Received: 09/09/22 09:50

Lab Sample ID: 820-5728-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	68713	09/13/22 05:03	JBS	EET HOU
Total/NA	Analysis	Total BTEX		1			68880	09/13/22 16:26	JBS	EET HOU

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

Accreditation/Certification Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-22-47	06-30-23

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

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

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

Method Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Terracon Consulting Eng & Scientists
Project/Site: DCP #2

Job ID: 820-5728-1
SDG: AR227008

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-5728-1	MW-6	Water	09/07/22 10:50	09/09/22 09:50
820-5728-2	MW-7	Water	09/07/22 11:30	09/09/22 09:50
820-5728-3	MW-8	Water	09/07/22 12:32	09/09/22 09:50
820-5728-4	MW-2	Water	09/07/22 13:40	09/09/22 09:50
820-5728-5	MW-3	Water	09/07/22 14:30	09/09/22 09:50
820-5728-6	MW-4	Water	09/07/22 15:26	09/09/22 09:50
820-5728-7	MW-5	Water	09/07/22 16:06	09/09/22 09:50
820-5728-8	MW-1	Water	09/07/22 16:55	09/09/22 09:50
820-5728-9	DUP-1	Water	09/07/22 00:00	09/09/22 09:50

Loc: 820
5728**Terracon**Laboratory: Xenco
Address: 6701 Aberdeen
Lubbock, Texas 79424

CHAIN OF CUSTODY RECORD

Office Location Lubbock
Project Manager Erin Loyd
Sampler's Name Aaron AdamsPhone: _____
Contact: _____
SRS #: 2009-039
Sampler's Signature Aaron AdamsANALYSIS
REQUESTEDLAB USE ONLY
DUE DATE:TEMP OF COOLER
WHEN RECEIVED (°C) 1.9/1.8Page 1 of 1Project Number AR227008 Project Name DCP #2 No. Type of Containers

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	Start Depth	End Depth	40 ml VO			
GW	9/7/2022	10:50		X	MW-6			3			
GW	9/7/2022	11:30		X	MW-7			3			
GW	9/7/2022	12:32		X	MW-8			3			
GW	9/7/2022	13:40		X	MW-2			3			
GW	9/7/2022	14:30		X	MW-3			3			
GW	9/7/2022	15:26		X	MW-4			3			
GW	9/7/2022	16:06		X	MW-5			3			
GW	9/7/2022	16:55		X	MW-1			3			
GW	9/7/2022			X	DUP-1			3			

BTX (EPA Method 8021)

Lab Sample ID



820-5728 Chain of Custody

TURNAROUND TIME ☒ Normal ☐ 48-Hour Rush ☐ 24-Hour Rush TRRP Laboratory Review Checklist ☐ Yes ☐ No

Relinquished by (Signature) <u>Aaron Adams</u>	Date: <u>9-9-22</u>	Time: <u>9:50</u>	Received by (Signature) <u>Andrew Kuepper</u>	Date: <u>9/9/22</u>	Time: <u>9:50</u>
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:
Relinquished by (Signature)	Date:	Time:	Received by (Signature)	Date:	Time:

NOTES: Bill directly to Plains Pipeline

e-mail results to:
1. CJBRYANT@PAALP.COM
2. MAOCHOA@PAALP.COM
3. AUSTIN.WORLEY@TERRACON.COM
4. ERIN.LOYD@TERRACON.COM
5. AARON.ADAMS@TERRACON.COMMatrix WW Wastewater W - Water S - Soil L - Liquid A - Air Bag C - Charcoal tube SL - Sludge
Container VOA - 40 ml vial A/G - Amber Glass 1L 250 ml - Glass wide mouth P/O - Plastic or other

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140

Responsive ■ Resourceful ■ Reliable

Eurofins Lubbock

6701 Aberdeen Ave. Suite 8
Lubbock, TX 79424
Phone: 806-794-1296

Chain of Custody Record



Environment Testing
America

Client Information (Sub Contract Lab)		Sampler		Lab PM: Kramer Jessica		Carrier Tracking No(s):		COC No: 820-4835.1	
Client Contact: Shipping/Receiving		Phone:		E-Mail: Jessica.Kramer@eurofinsus.com		State of Origin: Texas		Page: Page 1 of 1	
Company Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP Texas		Job #: 820-5728-1					
Address: 4145 Greenbriar Dr		Due Date Requested: 9/15/2022		Analysis Requested		Preservation Codes: A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify) Other:			
City: Stafford		TAT Requested (days):							
State, Zip: TX, 77477		PO #:							
Phone: 281-240-4200(Tel)		WO #:							
Email:		Project #: 82000286		Project Name: DCP #2					
Site:		SSOW#:							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Water, Solid, Organic, Inorganic, ST=Issue, AmAl)				
MW-6 (820-5728-1)		9/7/22	10:50 Central		Water	X	X		
MW-7 (820-5728-2)		9/7/22	11:30 Central		Water	X	X		
MW-8 (820-5728-3)		9/7/22	12:32 Central		Water	X	X		
MW-2 (820-5728-4)		9/7/22	13:40 Central		Water	X	X		
MW-3 (820-5728-5)		9/7/22	14:30 Central		Water	X	X		
MW-4 (820-5728-6)		9/7/22	15:26 Central		Water	X	X		
MW-5 (820-5728-7)		9/7/22	16:06 Central		Water	X	X		
MW-1 (820-5728-8)		9/7/22	16:55 Central		Water	X	X		
DUP-1 (820-5728-9)		9/7/22	Central		Water	X	X		
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.									
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Unconfirmed					☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months				
Deliverable Requested: I II III IV Other (specify)					Primary Deliverable Rank: 2				
Special Instructions/QC Requirements:									
Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:			
Relinquished by: <i>Andrew Kugler</i>		Date/Time: 9/9/22 17:00		Company:		Received by: FedEx		Date/Time:	
Relinquished by: FedEx		Date/Time:		Company:		Received by:		Date/Time: 9/10/2022 9:04	
Relinquished by:		Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:					

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5728-1

SDG Number: AR227008

Login Number: 5728

List Number: 1

Creator: Ruggles, Ashley

List Source: Eurofins Lubbock

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

Login Sample Receipt Checklist

Client: Terracon Consulting Eng & Scientists

Job Number: 820-5728-1

SDG Number: AR227008

Login Number: 5728

List Number: 2

Creator: Milone, Jeancarlo

List Source: Eurofins Houston

List Creation: 09/10/22 11:28 AM

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



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Joel Lowry
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Generated 4/14/2023 9:18:33 AM Revision 1

JOB DESCRIPTION

DCP #2
SDG NUMBER Lea County NM

JOB NUMBER

820-7414-1

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock TX 79424

Eurofins Lubbock

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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

Generated
4/14/2023 9:18:33 AM
Revision 1

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Laboratory Job ID: 820-7414-1
SDG: Lea County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	18
Lab Chronicle	20
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	28

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

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

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Job ID: 820-7414-1

Laboratory: Eurofins Lubbock

Narrative

Job Narrative 820-7414-1

REVISION

The report being provided is a revision of the original report sent on 2/20/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID correction.

Report revision history

Receipt

The samples were received on 2/13/2023 3:25 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 15.1°C

Receipt Exceptions

The following samples were received at the laboratory outside the required temperature criteria: MW 1 (820-7414-1), MW 2 (820-7414-2), MW 4 (820-7414-3), MW 5 (820-7414-4), MW 3 (820-7414-5), MW 7 (820-7414-6) and MW 8 (820-7414-7). This does not meet regulatory requirements. The client was contacted regarding this issue, and the laboratory was instructed to proceed with analysis.

GC/MS VOA

Method 8260C: Internal standard (ISTD) response for 1,4-Dichlorobenzene-d4 for the following samples in analytical batch 860-90101 was outside acceptance criteria: MW 2 (820-7414-2), MW 4 (820-7414-3), (MB 860-90101/10) and (860-42965-E-1). This ISTD does not correspond to any of the requested target compounds reported from this analytical batch; therefore, the data have been reported.

Method 8260C: The surrogate 4-Bromofluorobenzene (Surrogate) recovery for the blank associated with analytical batch 860-90283 was outside the upper control limits. This surrogate is not associated with any target analytes.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: MW 1 (820-7414-1). 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.

GC/MS Semi VOA

Method 8270D_SIM: Surrogate recovery for the following sample was outside control limits: MW 1 (820-7414-1). 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.

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Client Sample ID: MW 1

Lab Sample ID: 820-7414-1

Date Collected: 02/10/23 10:00

Matrix: Water

Date Received: 02/13/23 15:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	0.0176		0.00100		mg/L			02/15/23 22:29	1
Ethylbenzene	0.0778		0.00100		mg/L			02/15/23 22:29	1
m,p-Xylenes	0.136		0.0100		mg/L			02/15/23 22:29	1
o-Xylene	0.0442		0.00100		mg/L			02/15/23 22:29	1
Xylenes, Total	0.180		0.0100		mg/L			02/15/23 22:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		63 - 144		02/15/23 22:29	1
4-Bromofluorobenzene (Surr)	102		74 - 124		02/15/23 22:29	1
Dibromofluoromethane (Surr)	100		75 - 131		02/15/23 22:29	1
Toluene-d8 (Surr)	100		80 - 117		02/15/23 22:29	1

Method: SW846 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.180		0.00500		mg/L			02/16/23 13:28	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		02/16/23 13:28	5
4-Bromofluorobenzene (Surr)	106		74 - 124		02/16/23 13:28	5
Dibromofluoromethane (Surr)	95		75 - 131		02/16/23 13:28	5
Toluene-d8 (Surr)	102		80 - 117		02/16/23 13:28	5

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.456		0.0100		mg/L			02/16/23 17:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	0.000239		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Acenaphthylene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Anthracene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Benzo[a]anthracene	0.000336		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Benzo[a]pyrene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Benzo[b]fluoranthene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Benzo[g,h,i]perylene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Benzo[k]fluoranthene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Chrysene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Dibenz(a,h)anthracene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Fluoranthene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Fluorene	0.000979		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Indeno[1,2,3-cd]pyrene	<0.000184	U	0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Naphthalene	0.00704		0.00368		mg/L		02/17/23 18:18	02/18/23 12:14	1
Phenanthrene	0.000605		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
Pyrene	0.000243		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
1-Methylnaphthalene	0.00773		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1
2-Methylnaphthalene	0.00454		0.000184		mg/L		02/17/23 18:18	02/18/23 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	199	S1+	54 - 146	02/17/23 18:18	02/18/23 12:14	1
Nitrobenzene-d5	226	S1+	46 - 151	02/17/23 18:18	02/18/23 12:14	1
p-Terphenyl-d14	115		51 - 139	02/17/23 18:18	02/18/23 12:14	1

Eurofins Lubbock

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Client Sample ID: MW 2

Lab Sample ID: 820-7414-2

Date Collected: 02/09/23 09:00

Matrix: Water

Date Received: 02/13/23 15:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 05:45	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 05:45	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 05:45	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 05:45	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 05:45	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 05:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 144		02/15/23 05:45	1
4-Bromofluorobenzene (Surr)	124	*3	74 - 124		02/15/23 05:45	1
Dibromofluoromethane (Surr)	78		75 - 131		02/15/23 05:45	1
Toluene-d8 (Surr)	103		80 - 117		02/15/23 05:45	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L			02/16/23 17:21	1

Client Sample ID: MW 4

Lab Sample ID: 820-7414-3

Date Collected: 02/09/23 13:30

Matrix: Water

Date Received: 02/13/23 15:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 06:05	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 06:05	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 06:05	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 06:05	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 06:05	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		63 - 144		02/15/23 06:05	1
4-Bromofluorobenzene (Surr)	112	*3	74 - 124		02/15/23 06:05	1
Dibromofluoromethane (Surr)	75		75 - 131		02/15/23 06:05	1
Toluene-d8 (Surr)	105		80 - 117		02/15/23 06:05	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L			02/16/23 17:21	1

Client Sample ID: MW 5

Lab Sample ID: 820-7414-4

Date Collected: 02/09/23 11:00

Matrix: Water

Date Received: 02/13/23 15:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00509		0.00100		mg/L			02/16/23 13:48	1
Toluene	<0.00100	U	0.00100		mg/L			02/16/23 13:48	1
Ethylbenzene	0.00168		0.00100		mg/L			02/16/23 13:48	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/16/23 13:48	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/16/23 13:48	1

Eurofins Lubbock

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Client Sample ID: MW 5

Lab Sample ID: 820-7414-4

Date Collected: 02/09/23 11:00

Matrix: Water

Date Received: 02/13/23 15:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/16/23 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144					02/16/23 13:48	1
4-Bromofluorobenzene (Surr)	116		74 - 124					02/16/23 13:48	1
Dibromofluoromethane (Surr)	92		75 - 131					02/16/23 13:48	1
Toluene-d8 (Surr)	109		80 - 117					02/16/23 13:48	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L			02/16/23 17:21	1

Client Sample ID: MW 3

Lab Sample ID: 820-7414-5

Date Collected: 02/09/23 12:00

Matrix: Water

Date Received: 02/13/23 15:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 23:10	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 23:10	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 23:10	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 23:10	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 23:10	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 23:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		63 - 144					02/15/23 23:10	1
4-Bromofluorobenzene (Surr)	117		74 - 124					02/15/23 23:10	1
Dibromofluoromethane (Surr)	94		75 - 131					02/15/23 23:10	1
Toluene-d8 (Surr)	108		80 - 117					02/15/23 23:10	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L			02/16/23 17:21	1

Client Sample ID: MW 7

Lab Sample ID: 820-7414-6

Date Collected: 02/09/23 14:00

Matrix: Water

Date Received: 02/13/23 15:25

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 23:31	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 23:31	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 23:31	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 23:31	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 23:31	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 23:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144					02/15/23 23:31	1
4-Bromofluorobenzene (Surr)	110		74 - 124					02/15/23 23:31	1
Dibromofluoromethane (Surr)	95		75 - 131					02/15/23 23:31	1

Eurofins Lubbock

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Client Sample ID: MW 7

Date Collected: 02/09/23 14:00

Date Received: 02/13/23 15:25

Lab Sample ID: 820-7414-6

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 117		02/15/23 23:31	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L			02/16/23 17:21	1

Client Sample ID: MW 8

Date Collected: 02/09/23 14:28

Date Received: 02/13/23 15:25

Lab Sample ID: 820-7414-7

Matrix: Water

Method: SW846 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 23:51	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 23:51	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 23:51	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 23:51	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 23:51	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 23:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		02/15/23 23:51	1
4-Bromofluorobenzene (Surr)	112		74 - 124		02/15/23 23:51	1
Dibromofluoromethane (Surr)	85		75 - 131		02/15/23 23:51	1
Toluene-d8 (Surr)	105		80 - 117		02/15/23 23:51	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0100	U	0.0100		mg/L			02/16/23 17:21	1

Eurofins Lubbock

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (63-144)	BFB (74-124)	DBFM (75-131)	TOL (80-117)
820-7414-1	MW 1	94	102	100	100
820-7414-1 - DL	MW 1	97	106	95	102
820-7414-2	MW 2	95	124 *3	78	103
820-7414-3	MW 4	89	112 *3	75	105
820-7414-4	MW 5	96	116	92	109
820-7414-5	MW 3	99	117	94	108
820-7414-6	MW 7	96	110	95	107
820-7414-7	MW 8	97	112	85	105
820-7415-B-3 MS	Matrix Spike	111	97	103	107
860-42965-C-1 MS	Matrix Spike	100	92	85	101
860-42965-C-1 MSD	Matrix Spike Duplicate	113	92	84	99
860-43164-E-3 MS	Matrix Spike	102	93	97	102
LCS 860-90101/3	Lab Control Sample	101	93	83	101
LCS 860-90283/1010	Lab Control Sample	112	102	102	102
LCS 860-90368/3	Lab Control Sample	104	93	98	102
LCSD 860-90101/4	Lab Control Sample Dup	91	93	81	102
LCSD 860-90283/11	Lab Control Sample Dup	104	99	103	103
LCSD 860-90368/4	Lab Control Sample Dup	112	98	96	102
MB 860-90101/10	Method Blank	96	114 *3	82	108
MB 860-90283/15	Method Blank	104	127 S1+	95	109
MB 860-90368/8	Method Blank	102	118	90	109

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (54-146)	NBZ (46-151)	TPHd14 (51-139)
820-7414-1	MW 1	199 S1+	226 S1+	115
LCS 860-90690/2-A	Lab Control Sample	133	142	93
LCSD 860-90690/3-A	Lab Control Sample Dup	117	125	93
MB 860-90690/1-A	Method Blank	121	131	104

Surrogate Legend

FBP = 2-Fluorobiphenyl

NBZ = Nitrobenzene-d5

TPHd14 = p-Terphenyl-d14

Eurofins Lubbock

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-90101/10

Matrix: Water

Analysis Batch: 90101

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 00:57	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 00:57	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 00:57	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 00:57	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 00:57	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 00:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		02/15/23 00:57	1
4-Bromofluorobenzene (Surr)	114	*3	74 - 124		02/15/23 00:57	1
Dibromofluoromethane (Surr)	82		75 - 131		02/15/23 00:57	1
Toluene-d8 (Surr)	108		80 - 117		02/15/23 00:57	1

Lab Sample ID: LCS 860-90101/3

Matrix: Water

Analysis Batch: 90101

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04434		mg/L		89	75 - 125
Toluene	0.0500	0.04666		mg/L		93	70 - 130
Ethylbenzene	0.0500	0.04643		mg/L		93	75 - 125
m,p-Xylenes	0.0500	0.04714		mg/L		94	75 - 125
o-Xylene	0.0500	0.04934		mg/L		99	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		63 - 144
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	83		75 - 131
Toluene-d8 (Surr)	101		80 - 117

Lab Sample ID: LCSD 860-90101/4

Matrix: Water

Analysis Batch: 90101

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04435		mg/L		89	75 - 125	0	25
Toluene	0.0500	0.04652		mg/L		93	70 - 130	0	25
Ethylbenzene	0.0500	0.04712		mg/L		94	75 - 125	1	25
m,p-Xylenes	0.0500	0.04901		mg/L		98	75 - 125	4	25
o-Xylene	0.0500	0.04831		mg/L		97	75 - 125	2	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 144
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	81		75 - 131
Toluene-d8 (Surr)	102		80 - 117

Eurofins Lubbock

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-42965-C-1 MS

Matrix: Water

Analysis Batch: 90101

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00100	U	0.0500	0.04673		mg/L		93	66 - 142
Toluene	<0.00100	U	0.0500	0.04993		mg/L		100	59 - 139
Ethylbenzene	<0.00100	U	0.0500	0.05086		mg/L		102	75 - 125
m,p-Xylenes	<0.0100	U	0.0500	0.05237		mg/L		105	75 - 125
o-Xylene	<0.00100	U	0.0500	0.05375		mg/L		107	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 144
4-Bromofluorobenzene (Surr)	92		74 - 124
Dibromofluoromethane (Surr)	85		75 - 131
Toluene-d8 (Surr)	101		80 - 117

Lab Sample ID: 860-42965-C-1 MSD

Matrix: Water

Analysis Batch: 90101

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00100	U	0.0500	0.04522		mg/L		90	66 - 142	3	25
Toluene	<0.00100	U	0.0500	0.04707		mg/L		94	59 - 139	6	25
Ethylbenzene	<0.00100	U	0.0500	0.04711		mg/L		94	75 - 125	8	25
m,p-Xylenes	<0.0100	U	0.0500	0.04845		mg/L		97	75 - 125	8	25
o-Xylene	<0.00100	U	0.0500	0.05057		mg/L		101	75 - 125	6	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		63 - 144
4-Bromofluorobenzene (Surr)	92		74 - 124
Dibromofluoromethane (Surr)	84		75 - 131
Toluene-d8 (Surr)	99		80 - 117

Lab Sample ID: MB 860-90283/15

Matrix: Water

Analysis Batch: 90283

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/15/23 19:04	1
Toluene	<0.00100	U	0.00100		mg/L			02/15/23 19:04	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/15/23 19:04	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/15/23 19:04	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/15/23 19:04	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/15/23 19:04	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 144		02/15/23 19:04	1
4-Bromofluorobenzene (Surr)	127	S1+	74 - 124		02/15/23 19:04	1
Dibromofluoromethane (Surr)	95		75 - 131		02/15/23 19:04	1
Toluene-d8 (Surr)	109		80 - 117		02/15/23 19:04	1

Eurofins Lubbock

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 860-90283/1010

Matrix: Water

Analysis Batch: 90283

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.05290		mg/L		106	75 - 125
Toluene	0.0500	0.05448		mg/L		109	70 - 130
Ethylbenzene	0.0500	0.05458		mg/L		109	75 - 125
m,p-Xylenes	0.0500	0.05357		mg/L		107	75 - 125
o-Xylene	0.0500	0.05552		mg/L		111	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		63 - 144
4-Bromofluorobenzene (Surr)	102		74 - 124
Dibromofluoromethane (Surr)	102		75 - 131
Toluene-d8 (Surr)	102		80 - 117

Lab Sample ID: LCSD 860-90283/11

Matrix: Water

Analysis Batch: 90283

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.05181		mg/L		104	75 - 125	2	25
Toluene	0.0500	0.05390		mg/L		108	70 - 130	1	25
Ethylbenzene	0.0500	0.05291		mg/L		106	75 - 125	3	25
m,p-Xylenes	0.0500	0.05280		mg/L		106	75 - 125	1	25
o-Xylene	0.0500	0.05338		mg/L		107	75 - 125	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
4-Bromofluorobenzene (Surr)	99		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
Toluene-d8 (Surr)	103		80 - 117

Lab Sample ID: 820-7415-B-3 MS

Matrix: Water

Analysis Batch: 90283

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00100	U	0.0500	0.05372		mg/L		107	66 - 142
Toluene	<0.00100	U	0.0500	0.05804		mg/L		116	59 - 139
Ethylbenzene	<0.00100	U	0.0500	0.05655		mg/L		113	75 - 125
m,p-Xylenes	<0.0100	U	0.0500	0.05555		mg/L		111	75 - 125
o-Xylene	<0.00100	U	0.0500	0.05633		mg/L		113	75 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		63 - 144
4-Bromofluorobenzene (Surr)	97		74 - 124
Dibromofluoromethane (Surr)	103		75 - 131
Toluene-d8 (Surr)	107		80 - 117

Eurofins Lubbock

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 860-90368/8

Matrix: Water

Analysis Batch: 90368

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			02/16/23 11:45	1
Toluene	<0.00100	U	0.00100		mg/L			02/16/23 11:45	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			02/16/23 11:45	1
m,p-Xylenes	<0.0100	U	0.0100		mg/L			02/16/23 11:45	1
o-Xylene	<0.00100	U	0.00100		mg/L			02/16/23 11:45	1
Xylenes, Total	<0.0100	U	0.0100		mg/L			02/16/23 11:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 144		02/16/23 11:45	1
4-Bromofluorobenzene (Surr)	118		74 - 124		02/16/23 11:45	1
Dibromofluoromethane (Surr)	90		75 - 131		02/16/23 11:45	1
Toluene-d8 (Surr)	109		80 - 117		02/16/23 11:45	1

Lab Sample ID: LCS 860-90368/3

Matrix: Water

Analysis Batch: 90368

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04989		mg/L		100	75 - 125
Toluene	0.0500	0.05054		mg/L		101	70 - 130
Ethylbenzene	0.0500	0.04794		mg/L		96	75 - 125
m,p-Xylenes	0.0500	0.04708		mg/L		94	75 - 125
o-Xylene	0.0500	0.04931		mg/L		99	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		63 - 144
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	98		75 - 131
Toluene-d8 (Surr)	102		80 - 117

Lab Sample ID: LCSD 860-90368/4

Matrix: Water

Analysis Batch: 90368

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04725		mg/L		94	75 - 125	5	25
Toluene	0.0500	0.04974		mg/L		99	70 - 130	2	25
Ethylbenzene	0.0500	0.04660		mg/L		93	75 - 125	3	25
m,p-Xylenes	0.0500	0.04668		mg/L		93	75 - 125	1	25
o-Xylene	0.0500	0.04725		mg/L		94	75 - 125	4	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		63 - 144
4-Bromofluorobenzene (Surr)	98		74 - 124
Dibromofluoromethane (Surr)	96		75 - 131
Toluene-d8 (Surr)	102		80 - 117

Eurofins Lubbock

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 860-43164-E-3 MS

Matrix: Water

Analysis Batch: 90368

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00100	U	0.0500	0.05269		mg/L		105	66 - 142
Toluene	<0.00100	U	0.0500	0.05443		mg/L		109	59 - 139
Ethylbenzene	<0.00100	U	0.0500	0.05326		mg/L		107	75 - 125
m,p-Xylenes	<0.0100	U	0.0500	0.05321		mg/L		106	75 - 125
o-Xylene	<0.00100	U	0.0500	0.05349		mg/L		107	75 - 125

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	102		63 - 144
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	97		75 - 131
Toluene-d8 (Surr)	102		80 - 117

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

Lab Sample ID: MB 860-90690/1-A

Matrix: Water

Analysis Batch: 90707

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 90690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Acenaphthylene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Anthracene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Benzo[a]anthracene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Benzo[a]pyrene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Benzo[b]fluoranthene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Benzo[g,h,i]perylene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Benzo[k]fluoranthene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Chrysene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Dibenz(a,h)anthracene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Fluoranthene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Fluorene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Indeno[1,2,3-cd]pyrene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Naphthalene	<0.00375	U	0.00375		mg/L		02/17/23 18:18	02/18/23 11:55	1
Phenanthrene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
Pyrene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
1-Methylnaphthalene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1
2-Methylnaphthalene	<0.000187	U	0.000187		mg/L		02/17/23 18:18	02/18/23 11:55	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	121		54 - 146	02/17/23 18:18	02/18/23 11:55	1
Nitrobenzene-d5	131		46 - 151	02/17/23 18:18	02/18/23 11:55	1
p-Terphenyl-d14	104		51 - 139	02/17/23 18:18	02/18/23 11:55	1

Eurofins Lubbock

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

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

Lab Sample ID: LCS 860-90690/2-A

Matrix: Water

Analysis Batch: 90707

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 90690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Acenaphthene	0.0183	0.02486		mg/L		135	66 - 174
Acenaphthylene	0.0183	0.02491		mg/L		136	67 - 182
Anthracene	0.0183	0.02613		mg/L		142	55 - 191
Benzo[a]anthracene	0.0183	0.01491		mg/L		81	16 - 171
Benzo[a]pyrene	0.0183	0.01676		mg/L		91	10 - 165
Benzo[b]fluoranthene	0.0183	0.01390		mg/L		76	10 - 166
Benzo[g,h,i]perylene	0.0183	0.01433		mg/L		78	10 - 154
Benzo[k]fluoranthene	0.0183	0.01825		mg/L		99	10 - 178
Chrysene	0.0183	0.02021		mg/L		110	10 - 172
Dibenz(a,h)anthracene	0.0183	0.01453		mg/L		79	10 - 168
Fluoranthene	0.0183	0.02319		mg/L		126	52 - 185
Fluorene	0.0183	0.02509		mg/L		137	64 - 184
Indeno[1,2,3-cd]pyrene	0.0183	0.01456		mg/L		79	10 - 160
Naphthalene	0.0183	0.02406		mg/L		131	66 - 166
Phenanthrene	0.0183	0.02299		mg/L		125	66 - 184
Pyrene	0.0183	0.02280		mg/L		124	58 - 181
1-Methylnaphthalene	0.0183	0.02488		mg/L		136	64 - 167
2-Methylnaphthalene	0.0183	0.02402		mg/L		131	63 - 166

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl	133		54 - 146
Nitrobenzene-d5	142		46 - 151
p-Terphenyl-d14	93		51 - 139

Lab Sample ID: LCSD 860-90690/3-A

Matrix: Water

Analysis Batch: 90707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 90690

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Acenaphthene	0.0188	0.02354		mg/L		125	66 - 174	5	40
Acenaphthylene	0.0188	0.02358		mg/L		125	67 - 182	5	40
Anthracene	0.0188	0.02477		mg/L		132	55 - 191	5	40
Benzo[a]anthracene	0.0188	0.01532		mg/L		81	16 - 171	3	50
Benzo[a]pyrene	0.0188	0.01753		mg/L		93	10 - 165	4	50
Benzo[b]fluoranthene	0.0188	0.01459		mg/L		77	10 - 166	5	50
Benzo[g,h,i]perylene	0.0188	0.01518		mg/L		81	10 - 154	6	50
Benzo[k]fluoranthene	0.0188	0.01894		mg/L		101	10 - 178	4	50
Chrysene	0.0188	0.02028		mg/L		108	10 - 172	0	50
Dibenz(a,h)anthracene	0.0188	0.01526		mg/L		81	10 - 168	5	50
Fluoranthene	0.0188	0.02246		mg/L		119	52 - 185	3	40
Fluorene	0.0188	0.02388		mg/L		127	64 - 184	5	40
Indeno[1,2,3-cd]pyrene	0.0188	0.01528		mg/L		81	10 - 160	5	50
Naphthalene	0.0188	0.02195		mg/L		117	66 - 166	9	40
Phenanthrene	0.0188	0.02192		mg/L		116	66 - 184	5	40
Pyrene	0.0188	0.02177		mg/L		116	58 - 181	5	40
1-Methylnaphthalene	0.0188	0.02242		mg/L		119	64 - 167	10	40
2-Methylnaphthalene	0.0188	0.02188		mg/L		116	63 - 166	9	40

Eurofins Lubbock

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 860-90690/3-A

Matrix: Water

Analysis Batch: 90707

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 90690

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	117		54 - 146
Nitrobenzene-d5	125		46 - 151
p-Terphenyl-d14	93		51 - 139

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

GC/MS VOA

Analysis Batch: 90101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7414-2	MW 2	Total/NA	Water	8260C	
820-7414-3	MW 4	Total/NA	Water	8260C	
MB 860-90101/10	Method Blank	Total/NA	Water	8260C	
LCS 860-90101/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-90101/4	Lab Control Sample Dup	Total/NA	Water	8260C	
860-42965-C-1 MS	Matrix Spike	Total/NA	Water	8260C	
860-42965-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 90283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7414-1	MW 1	Total/NA	Water	8260C	
820-7414-5	MW 3	Total/NA	Water	8260C	
820-7414-6	MW 7	Total/NA	Water	8260C	
820-7414-7	MW 8	Total/NA	Water	8260C	
MB 860-90283/15	Method Blank	Total/NA	Water	8260C	
LCS 860-90283/1010	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-90283/11	Lab Control Sample Dup	Total/NA	Water	8260C	
820-7415-B-3 MS	Matrix Spike	Total/NA	Water	8260C	

Analysis Batch: 90368

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7414-1 - DL	MW 1	Total/NA	Water	8260C	
820-7414-4	MW 5	Total/NA	Water	8260C	
MB 860-90368/8	Method Blank	Total/NA	Water	8260C	
LCS 860-90368/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 860-90368/4	Lab Control Sample Dup	Total/NA	Water	8260C	
860-43164-E-3 MS	Matrix Spike	Total/NA	Water	8260C	

Analysis Batch: 90488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7414-1	MW 1	Total/NA	Water	Total BTEX	
820-7414-2	MW 2	Total/NA	Water	Total BTEX	
820-7414-3	MW 4	Total/NA	Water	Total BTEX	
820-7414-4	MW 5	Total/NA	Water	Total BTEX	
820-7414-5	MW 3	Total/NA	Water	Total BTEX	
820-7414-6	MW 7	Total/NA	Water	Total BTEX	
820-7414-7	MW 8	Total/NA	Water	Total BTEX	

GC/MS Semi VOA

Prep Batch: 90690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7414-1	MW 1	Total/NA	Water	3511	
MB 860-90690/1-A	Method Blank	Total/NA	Water	3511	
LCS 860-90690/2-A	Lab Control Sample	Total/NA	Water	3511	
LCSD 860-90690/3-A	Lab Control Sample Dup	Total/NA	Water	3511	

Analysis Batch: 90707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-7414-1	MW 1	Total/NA	Water	8270D SIM	90690
MB 860-90690/1-A	Method Blank	Total/NA	Water	8270D SIM	90690

Eurofins Lubbock

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

GC/MS Semi VOA (Continued)**Analysis Batch: 90707 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 860-90690/2-A	Lab Control Sample	Total/NA	Water	8270D SIM	90690
LCSD 860-90690/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	90690

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Client Sample ID: MW 1

Date Collected: 02/10/23 10:00

Date Received: 02/13/23 15:25

Lab Sample ID: 820-7414-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	90283	02/15/23 22:29	AN	EET HOU
Total/NA	Analysis	8260C	DL	5	5 mL	5 mL	90368	02/16/23 13:28	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU
Total/NA	Prep	3511			54.4 mL	2 mL	90690	02/17/23 18:18	RC	EET HOU
Total/NA	Analysis	8270D SIM		1	1 mL	1 mL	90707	02/18/23 12:14	PXS	EET HOU

Client Sample ID: MW 2

Date Collected: 02/09/23 09:00

Date Received: 02/13/23 15:25

Lab Sample ID: 820-7414-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	90101	02/15/23 05:45	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU

Client Sample ID: MW 4

Date Collected: 02/09/23 13:30

Date Received: 02/13/23 15:25

Lab Sample ID: 820-7414-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	90101	02/15/23 06:05	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU

Client Sample ID: MW 5

Date Collected: 02/09/23 11:00

Date Received: 02/13/23 15:25

Lab Sample ID: 820-7414-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	90368	02/16/23 13:48	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU

Client Sample ID: MW 3

Date Collected: 02/09/23 12:00

Date Received: 02/13/23 15:25

Lab Sample ID: 820-7414-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	90283	02/15/23 23:10	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU

Client Sample ID: MW 7

Date Collected: 02/09/23 14:00

Date Received: 02/13/23 15:25

Lab Sample ID: 820-7414-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	90283	02/15/23 23:31	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU

Eurofins Lubbock

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Client Sample ID: MW 8
Date Collected: 02/09/23 14:28
Date Received: 02/13/23 15:25

Lab Sample ID: 820-7414-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	90283	02/15/23 23:51	AN	EET HOU
Total/NA	Analysis	Total BTEX		1			90488	02/16/23 17:21	AN	EET HOU

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

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-23-50	03-13-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-02-23

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET HOU
3511	Microextraction of Organic Compounds	SW846	EET HOU
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 820-7414-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-7414-1	MW 1	Water	02/10/23 10:00	02/13/23 15:25
820-7414-2	MW 2	Water	02/09/23 09:00	02/13/23 15:25
820-7414-3	MW 4	Water	02/09/23 13:30	02/13/23 15:25
820-7414-4	MW 5	Water	02/09/23 11:00	02/13/23 15:25
820-7414-5	MW 3	Water	02/09/23 12:00	02/13/23 15:25
820-7414-6	MW 7	Water	02/09/23 14:00	02/13/23 15:25
820-7414-7	MW 8	Water	02/09/23 14:28	02/13/23 15:25

Received by: chhlerp 1 ruggier 21/3/23
15:25

Phone: 806-794-1296

Environment Testing

Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:											
Client Contact: Shipping/Receiving		Phone:	Kramer Jessica E-Mail: Jessica.Kramer@et.eurofinsus.com	State of Origin: Texas	820-8036.1 Page: Page 1 of 1											
Company: Eurofins Environment Testing South Centr			Accreditations Required (See note): NELAP Louisiana; NELAP Texas		Job #: 820-7414-1											
Address: 4145 Greenbriar Dr		Due Date Requested: 2/17/2023		Analysis Requested												
City: Stafford		TAT Requested (days):		Preservation Codes:												
State, Zip: TX, 77477				A HCL M Hexane B NaOH N None C Zn Acetate O AsNaO2 D Nitric Acid P Na2O4S E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate I Ice U Acetone J DI Water V MCAA K EDTA W pH 4-5 L EDA Y Trizma Z other (specify)												
Project Name: General Etech		Project #: 88000073		Other:												
Site:		SSOW#:														
Sample Identification Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/soil) BT=Tissue, AA=Air	Total BTEX	8260C/5030C BTEX	82700/3510C Polycyclic Aromatic Hydrocarbons (PAHs)								Special Instructions/Note:
MW 1 (820-7414-1)		2/10/23	10:00 Central		Water	X	X	X								
MW 2 (820-7414-2)		2/9/23	09:00 Central		Water	X	X									
MW 4 (820-7414-3)		2/9/23	13:30 Central		Water	X	X									
MW 5 (820-7414-4)		2/9/23	11:00 Central		Water	X	X									
MW 6 (820-7414-5)		2/9/23	12:00 Central		Water	X	X									
MW 7 (820-7414-6)		2/9/23	14:00 Central		Water	X	X									
MW 8 (820-7414-7)		2/9/23	14:28 Central		Water	X	X									
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.																
Possible Hazard Identification						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)										
Unconfirmed						☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months										
Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2						Special Instructions/QC Requirements.										
Empty Kit Relinquished by:			Date:	Time:		Method of Shipment:										
Relinquished by: <i>Melissa Ruggler</i>			Date/Time: 2/13/23 17 00	Company:		Received by: FedEx			Date/Time:			Company:				
Relinquished by: FedEx			Date/Time:	Company:		Received by: <i>Peta Palmer</i>			Date/Time: 2/14/2023 10:05			Company EX				
Relinquished by:			Date/Time:	Company:		Received by:			Date/Time:			Company:				
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.		Cooler Temperature(s) °C and Other Remarks:				Temp: 2.0 IR ID:HOU-344 CIF:-0.2 Control Temp: 18								

ver-00/08/2021

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 820-7414-1

SDG Number: Lea County NM

Login Number: 7414**List Number: 1****Creator: Ruggles, Ashley****List Source: Eurofins Lubbock**

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

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 820-7414-1

SDG Number: Lea County NM

Login Number: 7414**List Number: 2****Creator: Palmar, Pedro****List Source: Eurofins Houston****List Creation: 02/14/23 12:17 PM**

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



Environment Testing

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

ANALYTICAL REPORT

PREPARED FOR

Attn: Joel Lowry
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711
Generated 3/3/2023 1:09:36 PM

JOB DESCRIPTION

DCP #2
SDG NUMBER Lea County NM

JOB NUMBER

880-25365-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

Eurofins Midland**Job Notes**

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

Authorization

Generated
3/3/2023 1:09:36 PM

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

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Laboratory Job ID: 880-25365-1
SDG: Lea County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	10
Lab Chronicle	11
Certification Summary	12
Method Summary	13
Sample Summary	14
Chain of Custody	15
Receipt Checklists	17

1

2

3

4

5

6

7

8

9

10

11

12

13

14

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 880-25365-1
SDG: Lea County NM

Qualifiers

GC VOA

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

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 880-25365-1
SDG: Lea County NM

Job ID: 880-25365-1

Laboratory: Eurofins Midland

Narrative	
	Job Narrative 880-25365-1

Receipt

The sample was received on 3/1/2023 4:37 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.7°C

GC VOA

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

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

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 880-25365-1
SDG: Lea County NM

Client Sample ID: MW-6

Lab Sample ID: 880-25365-1

Date Collected: 02/17/23 09:00

Matrix: Water

Date Received: 03/01/23 16:37

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/03/23 02:06	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 02:06	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 02:06	1
m-Xylene & p-Xylene	0.000712	J	0.00400	0.000629	mg/L			03/03/23 02:06	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 02:06	1
Xylenes, Total	0.000712	J	0.00400	0.000642	mg/L			03/03/23 02:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130		03/03/23 02:06	1
1,4-Difluorobenzene (Surr)	108		70 - 130		03/03/23 02:06	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.000712	J	0.00400	0.000657	mg/L			03/03/23 13:22	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 880-25365-1
SDG: Lea County NM

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

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-25365-1	MW-6	110	108
880-25365-1 MS	MW-6	114	112
880-25365-1 MSD	MW-6	112	109
LCS 880-47605/34	Lab Control Sample	115	110
LCSD 880-47605/35	Lab Control Sample Dup	114	109
MB 880-47338/5-A	Method Blank	104	104
MB 880-47605/39	Method Blank	104	103
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 880-25365-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47338/5-A

Matrix: Water

Analysis Batch: 47605

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L		02/27/23 14:58	03/02/23 13:30	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L		02/27/23 14:58	03/02/23 13:30	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L		02/27/23 14:58	03/02/23 13:30	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L		02/27/23 14:58	03/02/23 13:30	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L		02/27/23 14:58	03/02/23 13:30	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L		02/27/23 14:58	03/02/23 13:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	02/27/23 14:58	03/02/23 13:30	1
1,4-Difluorobenzene (Surr)	104		70 - 130	02/27/23 14:58	03/02/23 13:30	1

Lab Sample ID: MB 880-47605/39

Matrix: Water

Analysis Batch: 47605

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.000408	U	0.00200	0.000408	mg/L			03/03/23 01:38	1
Toluene	<0.000367	U	0.00200	0.000367	mg/L			03/03/23 01:38	1
Ethylbenzene	<0.000657	U	0.00200	0.000657	mg/L			03/03/23 01:38	1
m-Xylene & p-Xylene	<0.000629	U	0.00400	0.000629	mg/L			03/03/23 01:38	1
o-Xylene	<0.000642	U	0.00200	0.000642	mg/L			03/03/23 01:38	1
Xylenes, Total	<0.000642	U	0.00400	0.000642	mg/L			03/03/23 01:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130		03/03/23 01:38	1
1,4-Difluorobenzene (Surr)	103		70 - 130		03/03/23 01:38	1

Lab Sample ID: LCS 880-47605/34

Matrix: Water

Analysis Batch: 47605

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1019		mg/L		102	70 - 130
Toluene	0.100	0.1004		mg/L		100	70 - 130
Ethylbenzene	0.100	0.1051		mg/L		105	70 - 130
m-Xylene & p-Xylene	0.200	0.2243		mg/L		112	70 - 130
o-Xylene	0.100	0.1109		mg/L		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	110		70 - 130

Lab Sample ID: LCSD 880-47605/35

Matrix: Water

Analysis Batch: 47605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1093		mg/L		109	70 - 130	7	20

Eurofins Midland

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 880-25365-1
SDG: Lea County NM

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

Lab Sample ID: LCSD 880-47605/35

Matrix: Water

Analysis Batch: 47605

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1095		mg/L		109	70 - 130	9	20
Ethylbenzene	0.100	0.1130		mg/L		113	70 - 130	7	20
m-Xylene & p-Xylene	0.200	0.2412		mg/L		121	70 - 130	7	20
o-Xylene	0.100	0.1191		mg/L		119	70 - 130	7	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	114		70 - 130						
1,4-Difluorobenzene (Surr)	109		70 - 130						

Lab Sample ID: 880-25365-1 MS

Matrix: Water

Analysis Batch: 47605

Client Sample ID: MW-6

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	<0.000408	U	0.100	0.1060		mg/L		106	70 - 130		
Toluene	<0.000367	U	0.100	0.1019		mg/L		102	70 - 130		
Ethylbenzene	<0.000657	U	0.100	0.1065		mg/L		107	70 - 130		
m-Xylene & p-Xylene	0.000712	J	0.200	0.2248		mg/L		112	70 - 130		
o-Xylene	<0.000642	U	0.100	0.1126		mg/L		113	70 - 130		

Lab Sample ID: 880-25365-1 MSD

Matrix: Water

Analysis Batch: 47605

Client Sample ID: MW-6

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.000408	U	0.100	0.1123		mg/L		112	70 - 130	6	25
Toluene	<0.000367	U	0.100	0.1082		mg/L		108	70 - 130	6	25
Ethylbenzene	<0.000657	U	0.100	0.1106		mg/L		111	70 - 130	4	25
m-Xylene & p-Xylene	0.000712	J	0.200	0.2332		mg/L		116	70 - 130	4	25
o-Xylene	<0.000642	U	0.100	0.1150		mg/L		115	70 - 130	2	25
	</										

Eurofins Midland

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 880-25365-1
SDG: Lea County NM

GC VOA

Prep Batch: 47338

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-47338/5-A	Method Blank	Total/NA	Water	5035	

Analysis Batch: 47605

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25365-1	MW-6	Total/NA	Water	8021B	
MB 880-47338/5-A	Method Blank	Total/NA	Water	8021B	47338
MB 880-47605/39	Method Blank	Total/NA	Water	8021B	
LCS 880-47605/34	Lab Control Sample	Total/NA	Water	8021B	
LCSD 880-47605/35	Lab Control Sample Dup	Total/NA	Water	8021B	
880-25365-1 MS	MW-6	Total/NA	Water	8021B	
880-25365-1 MSD	MW-6	Total/NA	Water	8021B	

Analysis Batch: 47748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-25365-1	MW-6	Total/NA	Water	Total BTEX	

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 880-25365-1
SDG: Lea County NM

Client Sample ID: MW-6
Date Collected: 02/17/23 09:00
Date Received: 03/01/23 16:37

Lab Sample ID: 880-25365-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8021B		1	5 mL	5 mL	47605	03/03/23 02:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47748	03/03/23 13:22	SM	EET MID

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

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

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 880-25365-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

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

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

Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

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

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 880-25365-1
SDG: Lea County NM

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

Protocol References:

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

Laboratory References:

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

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 880-25365-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-25365-1	MW-6	Water	02/17/23 09:00	03/01/23 16:37

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		3/1/23 16:13			3/2/23 12:25

Revised Date: 08/25/2020 Rev 2020.2

Loc: 880
25365

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 880-25365-1

SDG Number: Lea County NM

Login Number: 25365

List Number: 1

Creator: Kramer, Jessica

List Source: Eurofins Midland

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



Environment Testing

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

ANALYTICAL REPORT

PREPARED FOR

Attn: Joel Lowry
Etech Environmental & Safety Solutions
PO BOX 62228
Midland, Texas 79711

Generated 3/10/2023 11:53:21 AM

JOB DESCRIPTION

DCP #2
SDG NUMBER Lea County NM

JOB NUMBER

860-44420-1

Eurofins Houston
4145 Greenbriar Dr
Stafford TX 77477

Eurofins Houston

Job Notes

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

Authorization



Generated
3/10/2023 11:53:21 AM

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

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Laboratory Job ID: 860-44420-1
SDG: Lea County NM

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Detection Summary	6
Client Sample Results	7
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	18

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Definitions/Glossary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

Qualifiers

GC/MS VOA

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

Glossary

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

Case Narrative

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

Job ID: 860-44420-1

Laboratory: Eurofins Houston

Narrative	
	Job Narrative 860-44420-1

Receipt

The sample was received on 3/4/2023 9:12 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 19.6°C

GC/MS VOA

Method 8260C_GRO: The following sample was analyzed outside of analytical holding time due to receiving sample out of holding time: EFF-1 (03323)) (860-44420-1).

Method 8260C_GRO: The following sample was diluted to bring the concentration of target analytes within the calibration range: EFF-1 (03323)) (860-44420-1). Elevated reporting limits (RLs) are provided.

Method 8260C_GRO: The following sample was received outside of holding time: EFF-1 (03323)) (860-44420-1).

Method 8260C_MOD: The following sample was analyzed outside of analytical holding time due to receiving sample outside of holding time: EFF-1 (03323)) (860-44420-1).

Method 8260C_MOD: The following sample was received outside of holding time: EFF-1 (03323)) (860-44420-1).

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

Detection Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

Client Sample ID: EFF-1 (03323))

Lab Sample ID: 860-44420-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Gasoline Range Organics	1370	H	61.1	30.6	ppm v/v	5		8260C GRO	Total/NA
Benzene	0.574	J H	3.13	0.313	ppm v/v	1		8260C	Total/NA
Toluene	38.8	H	2.65	0.265	ppm v/v	1		8260C	Total/NA
Ethylbenzene	8.34	H	2.30	0.230	ppm v/v	1		8260C	Total/NA
m,p-Xylenes	18.1	H	4.61	0.461	ppm v/v	1		8260C	Total/NA
o-Xylene	5.21	H	2.30	0.230	ppm v/v	1		8260C	Total/NA
Xylenes, Total	23.3	H	4.61	0.461	ppm v/v	1		8260C	Total/NA

Client Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

Client Sample ID: EFF-1 (03323))

Lab Sample ID: 860-44420-1

Date Collected: 03/03/23 12:11

Matrix: Air

Date Received: 03/04/23 09:12

Sample Container: Tedlar Bag 1L

Method: SW846 8260C GRO - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	1370	H	61.1	30.6	ppm v/v	-		03/07/23 16:03	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140					03/07/23 16:03	5

Method: SW846 8260C - Volatile Organic Compounds (GCMS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.574	J H	3.13	0.313	ppm v/v	-		03/07/23 15:40	1
Toluene	38.8	H	2.65	0.265	ppm v/v	-		03/07/23 15:40	1
Ethylbenzene	8.34	H	2.30	0.230	ppm v/v	-		03/07/23 15:40	1
m,p-Xylenes	18.1	H	4.61	0.461	ppm v/v	-		03/07/23 15:40	1
o-Xylene	5.21	H	2.30	0.230	ppm v/v	-		03/07/23 15:40	1
Xylenes, Total	23.3	H	4.61	0.461	ppm v/v	-		03/07/23 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 135					03/07/23 15:40	1

Surrogate Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds (GC/MS)

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (70-135)
860-44420-1	EFF-1 (03323))	107
LCS 860-92970/3	Lab Control Sample	106
LCSD 860-92970/4	Lab Control Sample Dup	107
MB 860-92970/6	Method Blank	103
Surrogate Legend		
BFB = 4-Bromofluorobenzene (Surr)		

Method: 8260C GRO - Volatile Organic Compounds (GC/MS)

Matrix: Air

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	BFB (60-140)
860-44420-1	EFF-1 (03323))	98
LCS 860-92971/4	Lab Control Sample	104
LCSD 860-92971/5	Lab Control Sample Dup	94
MB 860-92971/7	Method Blank	98
Surrogate Legend		
BFB = 4-Bromofluorobenzene (Surr)		

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

Method: 8260C - Volatile Organic Compounds (GCMS)

Lab Sample ID: MB 860-92970/6

Matrix: Air

Analysis Batch: 92970

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.313	U	3.13	0.313	ppm v/v			03/07/23 14:08	1
Toluene	<0.265	U	2.65	0.265	ppm v/v			03/07/23 14:08	1
Ethylbenzene	<0.230	U	2.30	0.230	ppm v/v			03/07/23 14:08	1
m,p-Xylenes	<0.461	U	4.61	0.461	ppm v/v			03/07/23 14:08	1
o-Xylene	<0.230	U	2.30	0.230	ppm v/v			03/07/23 14:08	1
Xylenes, Total	<0.461	U	4.61	0.461	ppm v/v			03/07/23 14:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 135		03/07/23 14:08	1

Lab Sample ID: LCS 860-92970/3

Matrix: Air

Analysis Batch: 92970

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	15.7	13.43		ppm v/v		86	70 - 125
Toluene	13.3	11.66		ppm v/v		88	70 - 125
Ethylbenzene	11.5	9.914		ppm v/v		86	70 - 125
m,p-Xylenes	11.5	9.991		ppm v/v		87	70 - 125
o-Xylene	11.5	9.784		ppm v/v		85	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 135

Lab Sample ID: LCSD 860-92970/4

Matrix: Air

Analysis Batch: 92970

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	15.7	14.12		ppm v/v		90	70 - 125	5	35
Toluene	13.3	11.81		ppm v/v		89	70 - 125	1	35
Ethylbenzene	11.5	9.920		ppm v/v		86	70 - 125	0	35
m,p-Xylenes	11.5	9.958		ppm v/v		86	70 - 125	0	35
o-Xylene	11.5	9.737		ppm v/v		85	70 - 125	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 135

Method: 8260C GRO - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 860-92971/7

Matrix: Air

Analysis Batch: 92971

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<6.11	U	12.2	6.11	ppm v/v			03/07/23 14:08	1

Eurofins Houston

QC Sample Results

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

Method: 8260C GRO - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 860-92971/7

Matrix: Air

Analysis Batch: 92971

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		60 - 140		03/07/23 14:08	1

Lab Sample ID: LCS 860-92971/4

Matrix: Air

Analysis Batch: 92971

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics	122	114.7		ppm v/v		94	60 - 140

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		60 - 140

Lab Sample ID: LCSD 860-92971/5

Matrix: Air

Analysis Batch: 92971

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics	122	104.9		ppm v/v		86	60 - 140	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	94		60 - 140

QC Association Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

GC/MS VOA

Analysis Batch: 92970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-44420-1	EFF-1 (03323))	Total/NA	Air	8260C	
MB 860-92970/6	Method Blank	Total/NA	Air	8260C	
LCS 860-92970/3	Lab Control Sample	Total/NA	Air	8260C	
LCSD 860-92970/4	Lab Control Sample Dup	Total/NA	Air	8260C	

Analysis Batch: 92971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-44420-1	EFF-1 (03323))	Total/NA	Air	8260C GRO	
MB 860-92971/7	Method Blank	Total/NA	Air	8260C GRO	
LCS 860-92971/4	Lab Control Sample	Total/NA	Air	8260C GRO	
LCSD 860-92971/5	Lab Control Sample Dup	Total/NA	Air	8260C GRO	

Lab Chronicle

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

Client Sample ID: EFF-1 (03323)
Date Collected: 03/03/23 12:11
Date Received: 03/04/23 09:12

Lab Sample ID: 860-44420-1
Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	92970	03/07/23 15:40	JBS	EET HOU
Total/NA	Analysis	8260C GRO		5	5 mL	5 mL	92971	03/07/23 16:03	JBS	EET HOU

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Accreditation/Certification Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-04-23
Florida	NELAP	E871002	06-30-23
Louisiana	NELAP	03054	06-30-23
Louisiana (All)	NELAP	03054	06-30-23
Oklahoma	State	1306	08-31-23
Texas	NELAP	T104704215-22-48	06-30-23
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	P330-22-00025	03-02-23 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds (GCMS)	SW846	EET HOU
8260C GRO	Volatile Organic Compounds (GC/MS)	SW846	EET HOU
5030C	Collection/Prep Tedlar Bag (P&T)	SW846	EET HOU

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Etech Environmental & Safety Solutions
Project/Site: DCP #2

Job ID: 860-44420-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-44420-1	EFF-1 (03323)	Air	03/03/23 12:11	03/04/23 09:12

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15





Relinquished by: (Signature)		Received by: (Signature)		Date/Time		Relinquished by: (Signature)		Received by: (Signature)		Date/Time	
1				3/3/23 2:45	2			Fodex			
3	Fodex			3/4/23 09:12	6						
5											

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Etech Environmental & Safety Solutions

Job Number: 860-44420-1

SDG Number: Lea County NM

Login Number: 44420

List Number: 1

Creator: Rubio, Yuri

List Source: Eurofins Houston

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.	False	Thermal preservation not required.
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.	False	No time on COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 208206

CONDITIONS

Operator: PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	OGRID:
	34053
	Action Number: 208206
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	1. Continue to recover hydrocarbon-impacted groundwater monthly for wells MW-1 through MW-5 2. Recovery by SVE and monthly emission sampling to continue for MW-1. 3. Continue sampling for BTEX in MW-1 through MW-8 on an annual basis. 4. Submit the 2023 Groundwater Monitoring Report to OCD by April 1, 2024.	5/17/2023