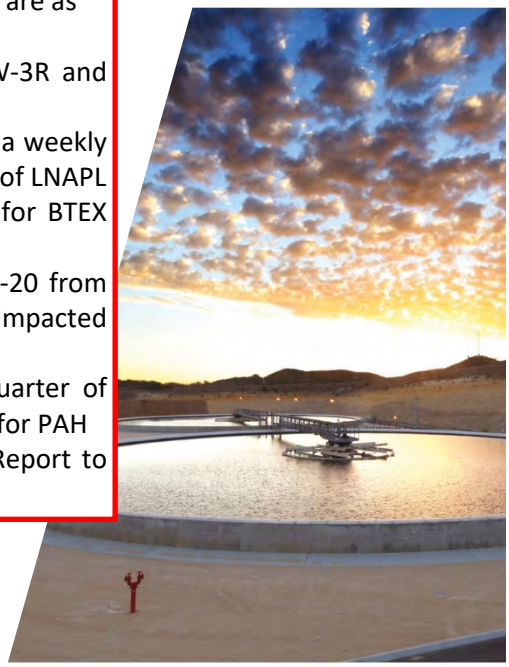
Review of 2021 Annual Groundwater Monitoring Report:
Content satisfactory

Contractor recommendations approved by NMOCD and are as follows;

1. Continue the operation of EFR events at MW-3R and MW-7 on a quarterly basis
2. Conduct LNAPL abatement via hand-bailing on a weekly basis for monitor wells that have a measurable amount of LNAPL
3. Continue NMOCD-approved quarterly GWSEs for BTEX by Method 8021B for all monitor wells located on-site
4. Removal of MW-5, MW-18, MW-19, and MW-20 from the annual PAH sampling schedule unless they are re-impacted by LNAPL
5. Sample MW-17 for PAH during the fourth quarter of 2022. Additionally, any wells that cease to have LNAPL for PAH
6. Submit the Annual Groundwater Monitoring Report to the NMOCD no later than March 31, 2023.



2021 Annual Groundwater Monitoring Report

Denton Station
Lea County, New Mexico
SRS #2003-00338
NMOCD Remediation Permit No. 1RP-0234
Incident ID #: nAPP2108927757

Plains All American Pipeline, LP

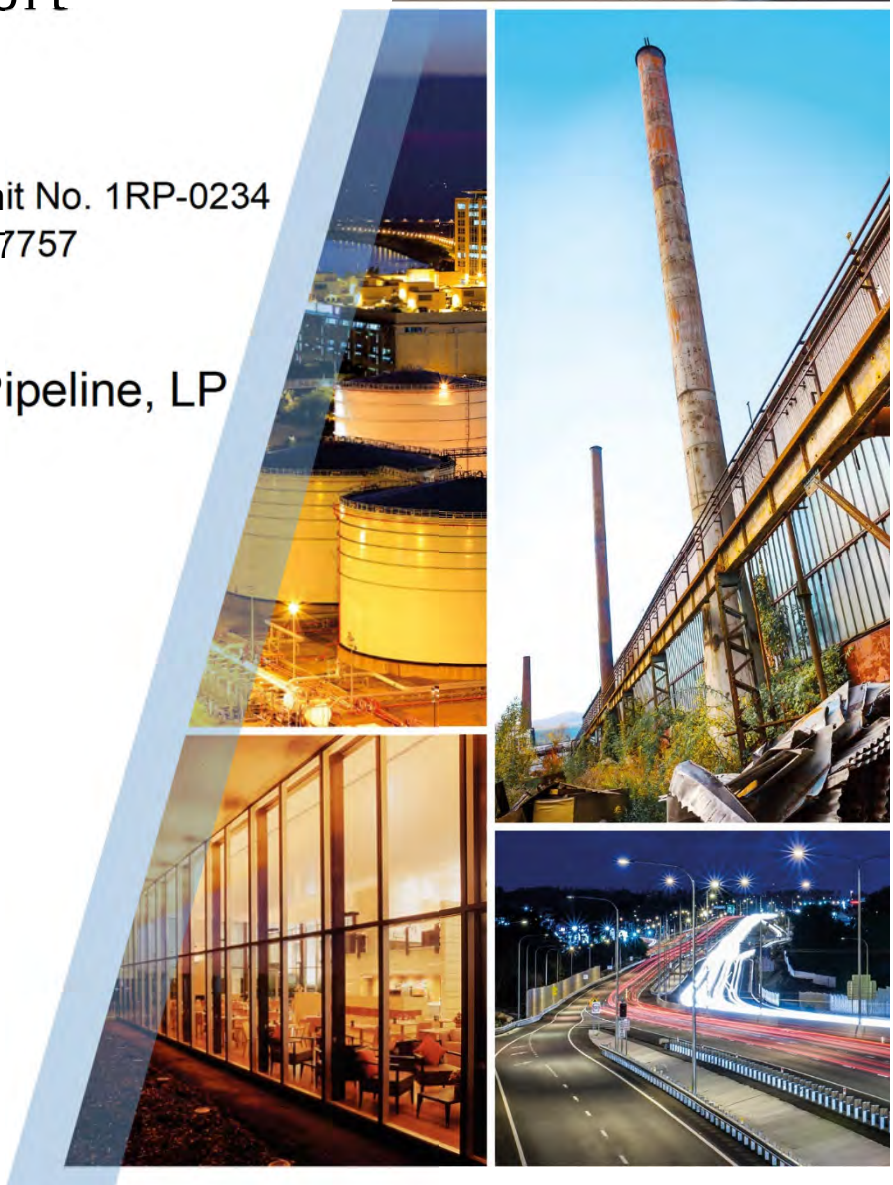


Table of Contents

FIGURES

TABLES

APPENDICES

1. Introduction

GHD Services, Inc. (GHD), on behalf of Plains All American Pipeline, L.P. (Plains), submits this Annual Groundwater Monitoring Report (Report) in compliance with New Mexico Oil Conservation Division (NMOCD) requirements. This Site falls under the NMOCD Remediation Permit number 1RP-0234. This Report provides the quarterly results of groundwater sampling events (GWSEs) and remediation activities completed at Denton Station SRS #2003-00338 (Site) during 2021.

This Site is located in Lea County, New Mexico. The GPS coordinates are 33.017631° N latitude and 103.162478° W longitude. A Site Location Map is provided as Figure 1. The remediation area and site details are depicted on Figure 2, Site Details Map.

1.1 Site History

The Site was formerly the responsibility of Shell Pipeline Corporation, monitoring and remediation at the Site is currently the responsibility of Plains. The release was reportedly from a former crude oil tank battery located to the northwest of the fenced facility located on-site.

Beginning on April 1, 2007, project management responsibilities were assumed by NOVA. GHD, (formerly Conestoga-Rovers and Associates, Inc.) assumed site remediation and project management responsibilities on May 2, 2011.

On December 12, 2012, the New Mexico Oil Conservation Division (NMCOD) corresponded with Plains via email regarding polycyclic aromatic hydrocarbons (PAHs) evaluation and provided the following directives:

> *Annual sampling of wells that have BTEX concentrations above the respective NMWQCC standard; wells where LNAPL has been removed and is no longer present; and continued sampling of each well for at least two consecutive years until each of the PAHs are at a concentration of 0.001mg/L or less (for PAHs that do not have a NMWQCC standard) and at or below NMWQCC standard for PAHs that have a standard (if applicable).*

Past assessment and cleanup activities have included monitor well installations resulting in sixteen groundwater monitoring wells at the Site. Monitor wells MW-1, MW-2, MW-3, and one out-of-service water well (WW 1) were plugged and abandoned with NMOCD approval on September 16, 2014. Replacement monitoring wells MW-1R and MW-2R were installed on September 17, 2014. Replacement monitoring well MW-3R was installed on October 7, 2014. Professional surveying of the replacement wells was performed on November 11, 2014, and re-surveyed in June 2017.

In July 2019, a Work Plan for Installation of Additional Wells and Plugging Dry Wells was submitted to the NMOCD. The work plan proposed to plug and abandon four monitor wells and install 3 new monitor wells. The work plan was proposed because fluid levels in these wells had declined making LNAPL recovery no longer feasible, and delineation of the contaminant plume could no longer be demonstrated. On February 19, 2020, monitor wells MW-11, MW-13, MW-14, MW-16 were plugged and abandoned. Between March 3 and April 15, 2020, monitor wells MW-18, MW-19, and MW-20

we installed at the Site. Currently, there are sixteen monitor wells: MW-1R, MW-2R, MW-3R, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-12, MW-15, MW-17, MW-18, MW-19, and MW-20.

2. Regulatory Framework

The NMOCD guidelines require groundwater to be analyzed for potential contaminants as defined by the New Mexico Water Quality Control Commission (NMWQCC) Standards 20.6.2.3103 Section A, which provide the Human Health Standards for Groundwater. The constituents of concern (COCs) in affected groundwater at the Site are benzene, toluene, ethylbenzene, and total xylenes (BTEX), benzo(a)pyrene, and combined naphthalene and monomethylnaphthalenes. NMWQCC standards as shown in Table 2.1 are used to guide assessment and remediation of the Site:

Table 2.1 EPA and NMWQCC Human Health Standards

Analyte	EPA and NMWQCC Human Health Standard
Benzene	0.01 mg/L
Toluene	0.75 mg/L
Ethylbenzene	0.75 mg/L
Total Xylenes	0.62 mg/L
Benzo(a)pyrene	0.0002 mg/L
Combined Naphthalene and Monomethylnaphthalenes	0.03 mg/L

3. 2021 Groundwater Sampling Events

GHD conducted quarterly GWSEs for 16 monitor wells located on-site. Sample locations can be viewed in the Site Details Map provided on Figure 2. All on-site monitor wells were sampled in accordance with the following groundwater sampling schedule as approved by the NMOCD:

Table 3.1 NMOCD-Approved Groundwater Sampling Schedule

Sample Location ID	Groundwater Sampling Schedule
MW-1R, MW-2R, MW-3R, MW-4, MW-5, MW-6, MW-7, MW-10, MW-12, MW-17, MW-18, MW-19, MW-20	Quarterly
MW-9	Semi-Annually
MW-8, MW-15	Annually

3.1 Groundwater Monitoring Methodology

Static fluid levels were gauged with an oil-water interface probe to the nearest hundredth of a foot for all on-site monitor and recovery wells. Wells not containing LNAPL with sufficient water for sampling were purged of three (3) well volumes of groundwater. Hand-bailing, using clean disposable polyvinyl chloride (PVC) bailers, was the method used for groundwater purging. The purged groundwater was stored in an above-ground storage tank (AST) located at the Site.

Laboratory-supplied containers were filled with groundwater directly from the PVC bailer used for purging, then placed on ice and chilled to a temperature of approximately 4° C. All groundwater samples were analyzed for BTEX by Method 8021B. A duplicate sample was generally collected every 12 wells and analyzed for BTEX by Method 8021B. During the fourth quarter of 2021, select sample locations were analyzed for PAH by Method 8270C-SIM. All groundwater samples were analyzed by Pace Analytical Laboratory in Mt. Juliet, Tennessee. Certified Laboratory Reports and Chain-of-Custody are provided in Appendix C. Monitor and recovery wells containing measurable amounts of light-aqueous phase liquids (LNAPL) were not sampled.

3.2 Laboratory Analytical Results Summary

BTEX analytical results for GWSEs conducted in 2020 and 2021 are included in Table 2, BTEX Analytical Results for Groundwater Sampling Events 2020-2021. BTEX concentrations for the quarterly GWSEs conducted in 2021 are shown in Figure 7, Figure 8, Figure 9, and Figure 10. A summary of PAH analytical results is shown in Table 3, Polycyclic Aromatic Hydrocarbons Analytical Results. All analytical results are summarized using the NMWQCC Human Health Standards found in Table 2.1.

3.2.1 First Quarter Summary

On February 9, 2021, GHD collected groundwater samples for 13 monitor wells. Approximately 127 gallons of groundwater were purged and stored into the on-site AST. Analytical results indicated benzene concentrations above 0.01 mg/L in MW-1R and MW-17. No other Site wells exceeded the benzene standard. None of the Site wells exhibited toluene, ethylbenzene, or total xylenes concentrations above the NMWQCC criteria. Results for the analyses of the initial and field duplicate groundwater samples from MW-5 and MW-20 analyzed for BTEX were within acceptable ranges.

No groundwater samples were collected at MW-3R and MW-7 due to measurable amounts of LNAPL gauged in the wells. MW-15 was not sampled due to having an insufficient amount of groundwater.

3.2.2 Second Quarter Summary

On May 13, 2021, GHD collected groundwater samples for 11 monitor wells. Approximately 101 gallons of groundwater were purged and stored into the on-site AST. Analytical results indicated benzene concentrations above 0.01 mg/L in MW-1R, MW-5, and MW-17. No other Site wells exceeded the benzene standard. None of the Site wells exhibited toluene, ethylbenzene, or total xylenes concentrations above the NMWQCC criteria. Toluene was detected in the duplicate sample collected for MW-17, at a concentration below the NMWQCC criteria, but not detected in the initial groundwater sample. GHD determined this difference was negligible, therefore did not implement any corrective actions. Results for the BTEX analyses of the initial and field duplicate groundwater samples were within acceptable ranges for MW-17 and MW-19.

No groundwater samples were collected at MW-3R and MW-7 due to measurable amounts of LNAPL gauged in the wells. MW-15 was not sampled due to having an insufficient amount of groundwater.

3.2.3 Third Quarter Summary

On August 12, 2021, GHD collected groundwater samples for 12 monitor wells. Approximately 114 gallons of groundwater were purged and stored into the on-site AST. Analytical results indicated benzene concentrations above 0.01 mg/L in MW-1R and MW-17. No other Site wells exceeded the benzene standard. None of the Site wells exhibited toluene, ethylbenzene, or total xylenes concentrations above the NMWQCC criteria. Benzene and total xylenes were detected in the field duplicate at concentrations below the NMWQCC criteria, but not detected in the initial groundwater sample, at MW-2R. GHD determined this difference was negligible, therefore did not implement any corrective actions. Results for the analyses of the initial and field duplicate groundwater samples were within acceptable ranges for MW-2R and MW-20.

No groundwater samples were collected at MW-3R and MW-7 due to measurable amounts of LNAPL gauged in the wells. MW-15 was not sampled due to having an insufficient amount of groundwater.

3.2.4 Fourth Quarter Summary

On November 8, 2021, GHD collected groundwater samples for 11 monitor wells. Approximately 91 gallons of groundwater were purged and stored into the on-site AST. Analytical results indicated benzene concentrations above 0.01 mg/L, benzo(a)pyrene concentrations above 0.0002 mg/L, and combined naphthalene and monomethylnapthalenes concentrations above 0.03 mg/L for MW-17, with no other Site wells exceeding the benzene and PAH standards. None of the Site wells exhibited toluene, ethylbenzene, or total xylenes concentrations above the NMWQCC criteria. Toluene was detected in the field duplicate at concentrations below the NMWQCC criteria, but not detected in the initial groundwater sample, at MW-17. GHD determined this difference was negligible, therefore did not implement any corrective actions. Results for the analyses of the initial and field duplicate groundwater samples were within acceptable ranges for MW-17.

No groundwater samples were collected at MW-3R and MW-7 due to measurable amounts of LNAPL gauged in the wells. MW-15 was not sampled due to having an insufficient amount of groundwater.

4. Potentiometric Surface and Gradient Summary

During the quarterly groundwater sampling events, GHD conducted gauging events prior to the groundwater sample collection. All fluid level measurements were from the tops of casings which were professionally surveyed. Elevations of the potentiometric surface were calculated using a specific gravity of 0.81 of LNAPL, where present. Groundwater flow is generally toward the southeast, which is consistent with historical data. The average gradient of the potentiometric surface during 2021 is 0.0019 feet per foot (ft./ft.). The elevation of the potentiometric surface indicates an average decline of 0.30 ft. throughout 2021. Monthly gauging and elevation of the potentiometric surface data for 2020-2021 are provided in Table 1. Quarterly groundwater gradient maps are provided as Figure 3, Figure 4, Figure 5, and Figure 6.

5. Remediation Activities

GHD conducted quarterly enhanced fluid recovery (EFR) events for MW-3R and MW-7, which have a measurable amount of LNAPL, on March 5, May 14, August 6, and November 5, 2021. Approximately 1,554 gallons of total fluids were removed from MW-3R, and approximately 42 gallons of total fluid were removed from MW-7, in 2021. All fluids recovered from the EFR were transferred to a vacuum truck and later disposed at a licensed disposal facility as directed by Plains.

6. Summary of Findings

Based on groundwater sampling events and remedial activities performed at the Site in 2021, the following summary of findings is presented:

- Groundwater flow is generally toward the southeast, which is consistent with historical data. The average gradient of the potentiometric surface during 2021 is 0.0019 ft./ft.
- The elevation of the potentiometric surface indicates an average decline of 0.30 ft. during 2021.
- LNAPL is currently present at 2 monitor wells (MW-3R and MW-7). The average LNAPL thickness is 0.22 ft. The LNAPL thicknesses ranged from 0.01 ft. on November 8, 2021 in MW-3R to 0.62 ft. on August 6, 2021 in MW-3R. Charts of LNAPL Thickness Versus Time are provided in Appendix A.
- Approximately 1,596 gallons of total fluids were recovered from EFR events in 2021.
- In 2020 monitor wells MW-18 through MW-20 were installed to fully delineate the BTEX and LNAPL plumes. Both the BTEX and LNAPL plumes are fully delineated at the Site.
- Benzene concentrations are consistently above NMWQCC criteria in MW-17. Charts of Dissolved Benzene Versus Time are provided in Appendix B.
    - MW-1R exhibited benzene concentrations below the NMWQCC criteria during November 2021 but exceeded benzene standards every other quarter.
    - MW-5 exhibited benzene concentrations above the NMQCC criteria during May 2021 but was below benzene standards every other quarter.
- Fluctuations in the elevation of the potentiometric surface can be attributed to the on-site removal of groundwater and LNAPL.
- MW-5, MW-18, MW-19, and MW-20 have established 2 consecutive years below NMWQCC criteria for PAH.

7. Recommendations

Based upon the data and conclusions presented in this Report, the following are recommended for 2022:

- Continue the operation of EFR events at MW-3R and MW-7 on a quarterly basis.
- Conduct LNAPL abatement via hand-bailing on a weekly basis for monitor wells that have a measurable amount of LNAPL.
- Continue NMOCD-approved quarterly GWSEs for BTEX by Method 8021B for all monitor wells located on-site.
- MW-5, MW-18, MW-19, and MW-20 have established 2 consecutive years below the NMWQCC criteria for PAH. Therefore, these wells will be removed from the annual PAH sampling schedule unless they are re-impacted by LNAPL. Monitor well MW-17 will be sampled for PAH compounds during the fourth quarter of 2022. Additionally, any wells that cease to have LNAPL will be sampled for PAH compounds.

All of Which is Respectfully Submitted,

GHD

Becky Haskell
Senior Project Manager

Tom Larson
Midland Operations Manager

about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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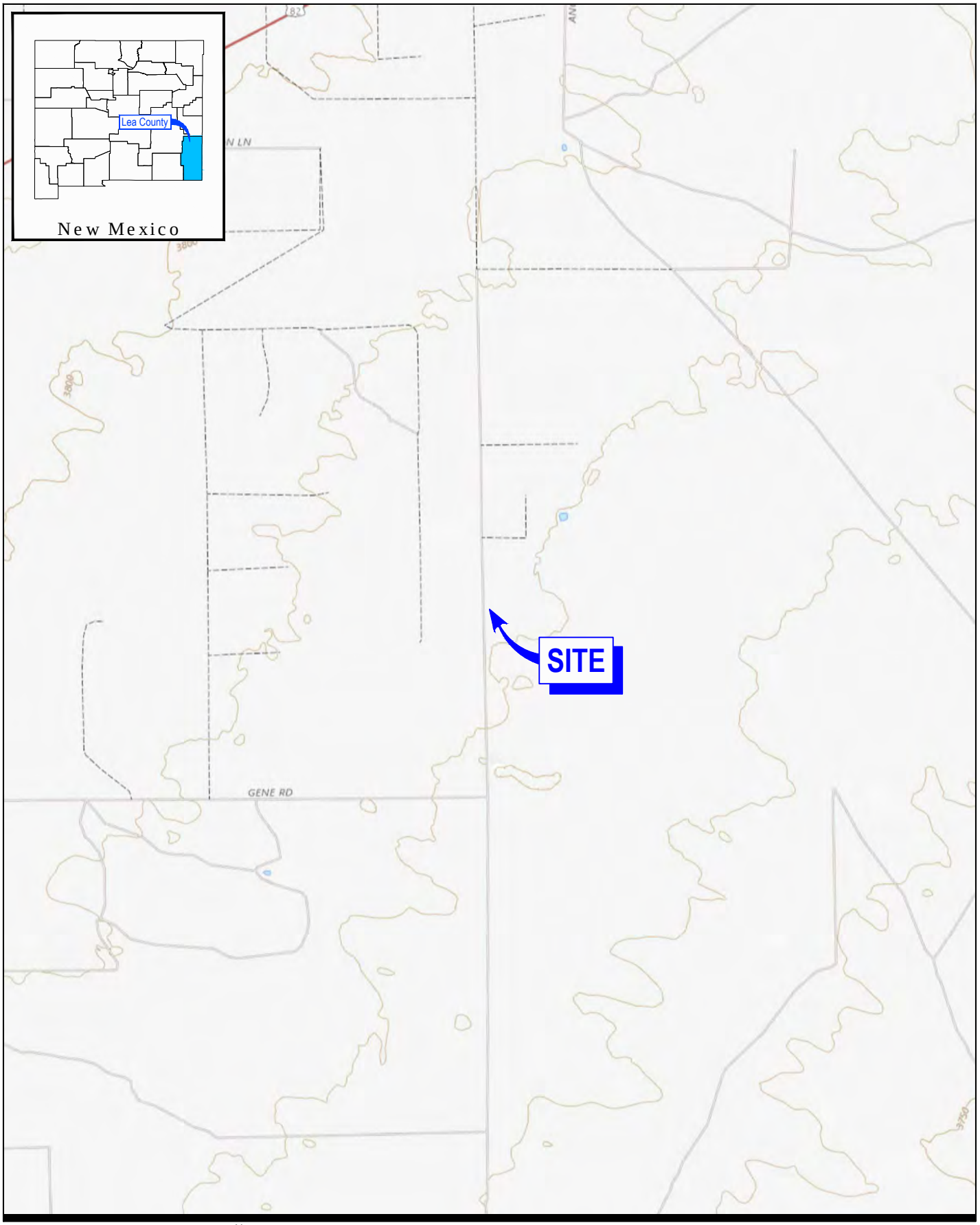
Figures



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Coordinate System:
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New Mexico East (US Feet)

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GHD

PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DENTON STATION

Project No. **11209870**
Date **May 2021**

SITE LOCATION MAP

FIGURE 1

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11209870\Digital_Design\ACAD 2018\Figures\11209870(GWR 2021)\11198580-GHD-0000-RPT-EN-0101_DL-001.dwg
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Lat/Long: 33.0175° North, 103.1624° West

0 100 200 ft

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

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GHD

PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DENTON STATION

Project No. **11209870**
Date **May 2021**

SITE DETAILS MAP

FIGURE 2

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11209870\Digital_Design\ACAD 2018\Figures\11209870(GWR 2021)\11198580-GHD-0000-RPT-EN-0101_DL-001.dwg
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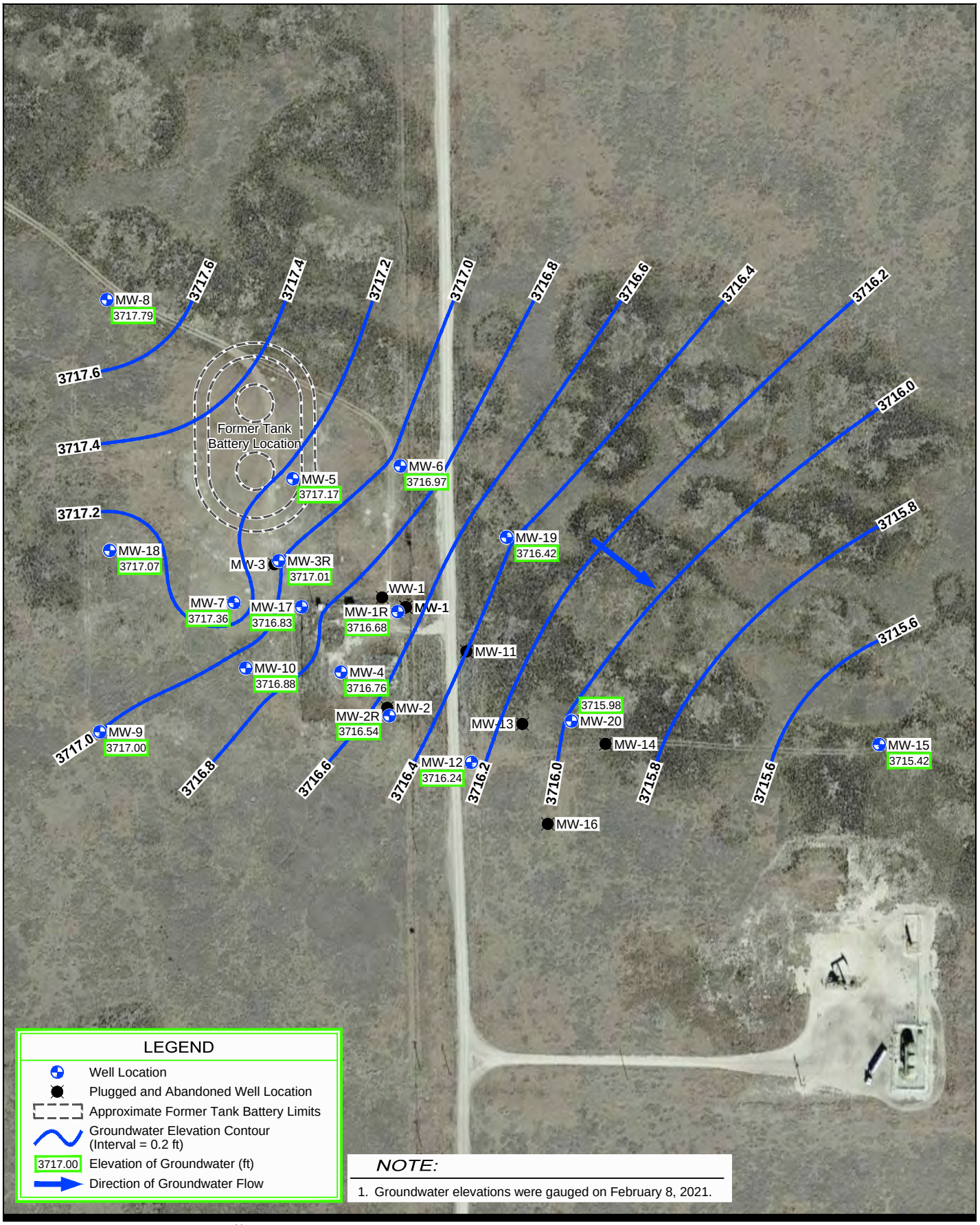

PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DENTON STATION

Project No. **11209870**
Date **May 2021**

GROUNDWATER GRADIENT MAP
FEBRUARY 8, 2021

FIGURE 3

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11209870\Digital_Design\ACAD 2018\Figures\11209870(GWR 2021)\11198580-GHD-0000-RPT-EN-0101_DL-001.dwg
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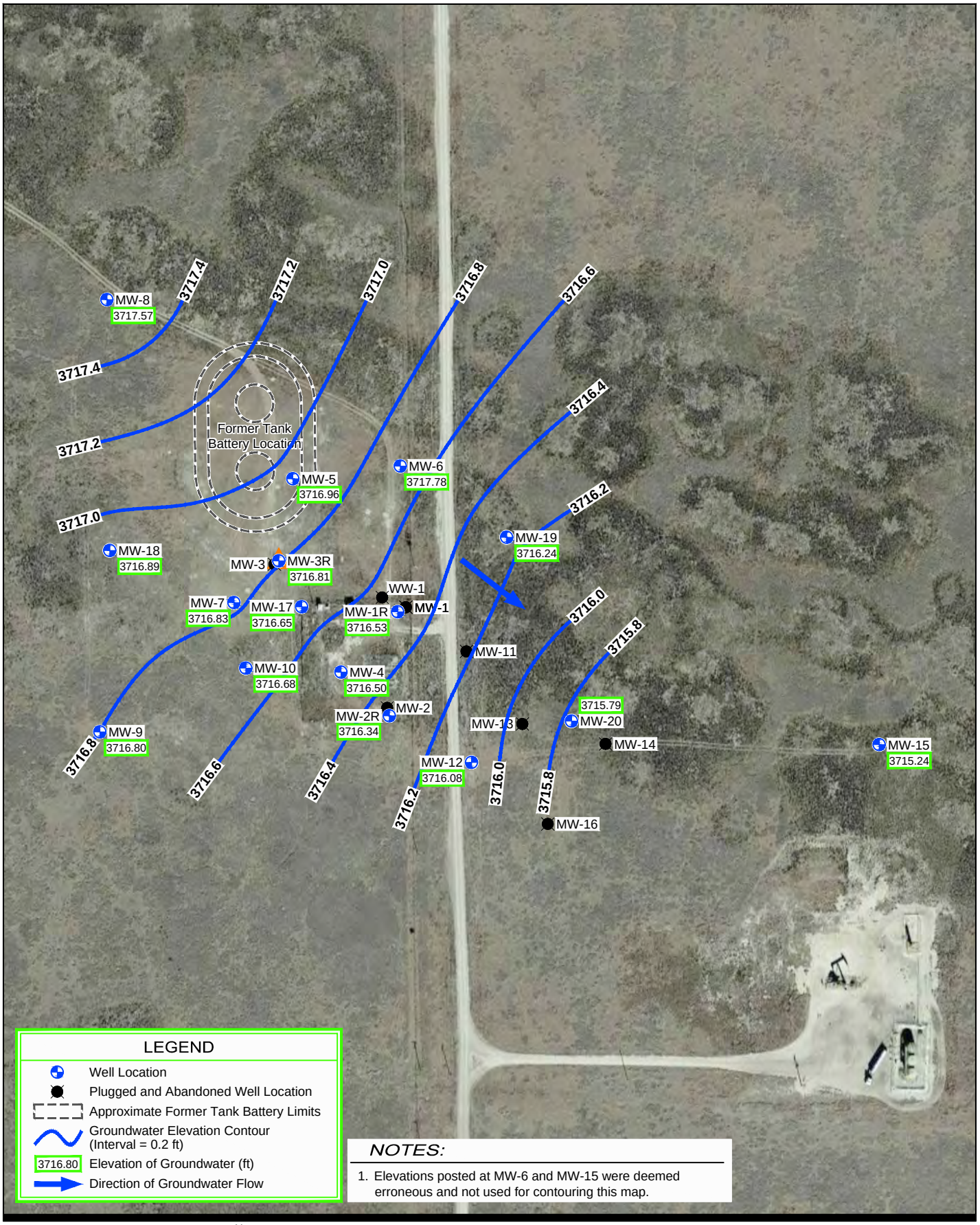

LEGEND

- Well Location
- Plugged and Abandoned Well Location
- Approximate Former Tank Battery Limits
- Groundwater Elevation Contour (Interval = 0.2 ft)
- 3716.80 Elevation of Groundwater (ft)
- Direction of Groundwater Flow

NOTES:

1. Elevations posted at MW-6 and MW-15 were deemed erroneous and not used for contouring this map.

0 100 200 ft

Coordinate System: NAD 1983 (2011) StatePlane- New Mexico East (US Feet)

N

GHD

PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DENTON STATION

GROUNDWATER GRADIENT MAP
MAY 10, 2021

Project No. 11209870
Date February 2022

FIGURE 4

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11209870\Digital_Design\ACAD 2018\Figures\11209870(GWR 2021)\11209870-GHD-0000-RPT-EN-0101_DL-001.dwg
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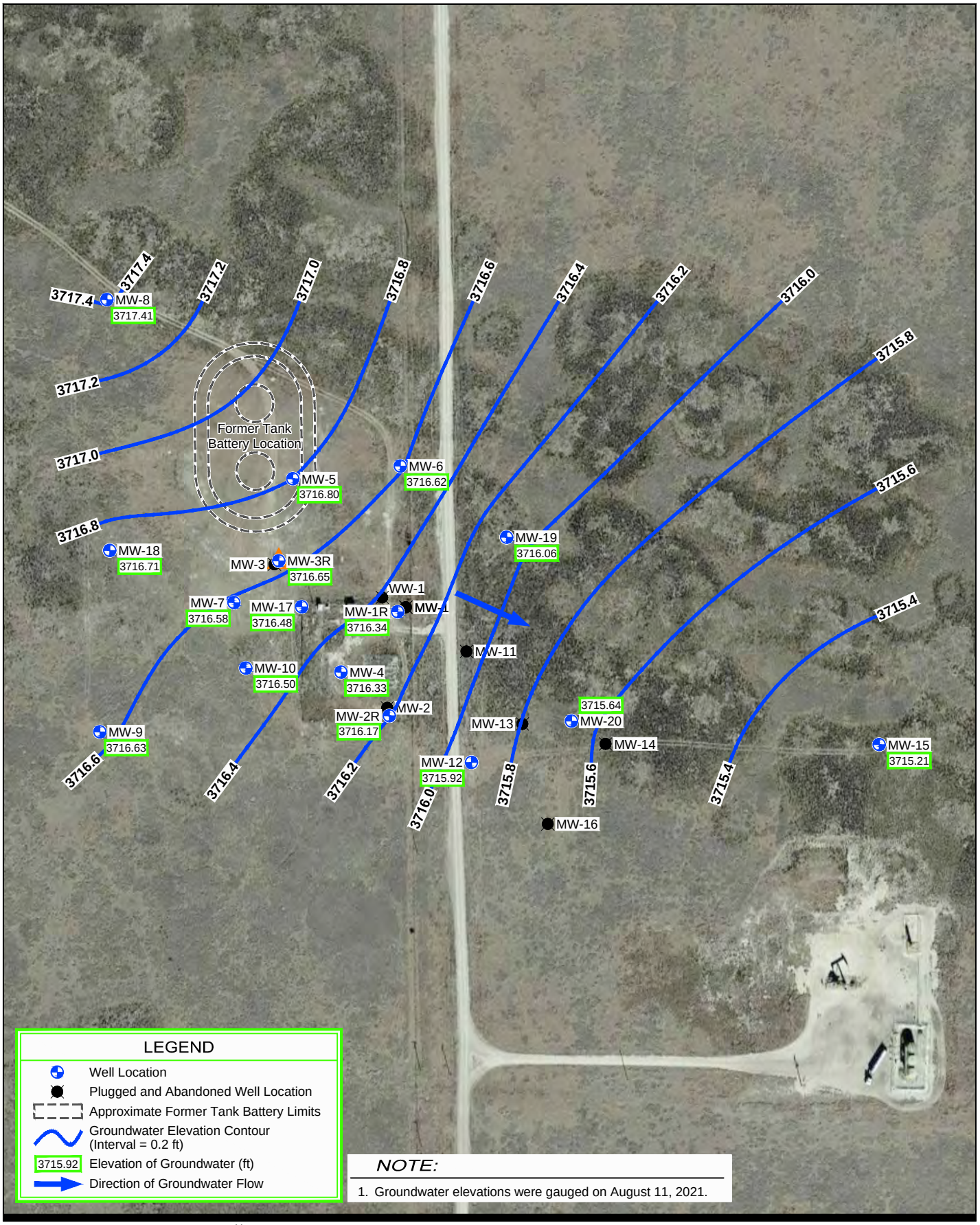

PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DENTON STATION

Project No. **11209870**
Date **December 2021**

GROUNDWATER GRADIENT MAP
AUGUST 11, 2021

FIGURE 5

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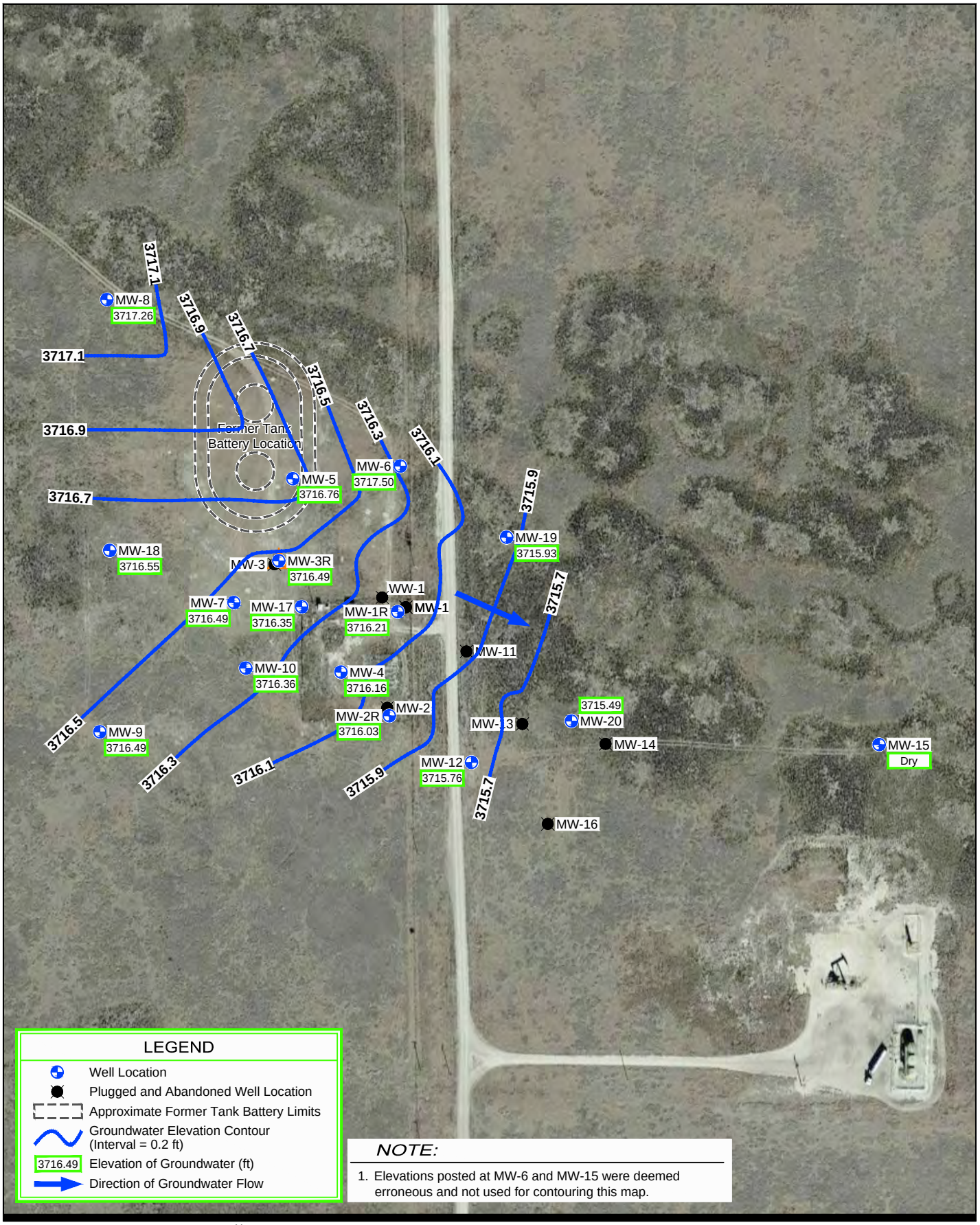

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Coordinate System: NAD 1983 (2011) StatePlane- New Mexico East (US Feet)

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PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DENTON STATION

GROUNDWATER GRADIENT MAP
NOVEMBER 8, 2021

Project No. 11209870
Date January 2022

FIGURE 6

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11209870\Digital_Design\ACAD 2018\Figures\11209870(GWR 2021)\11209870-GHD-0000-RPT-EN-0101_DL-001.dwg Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
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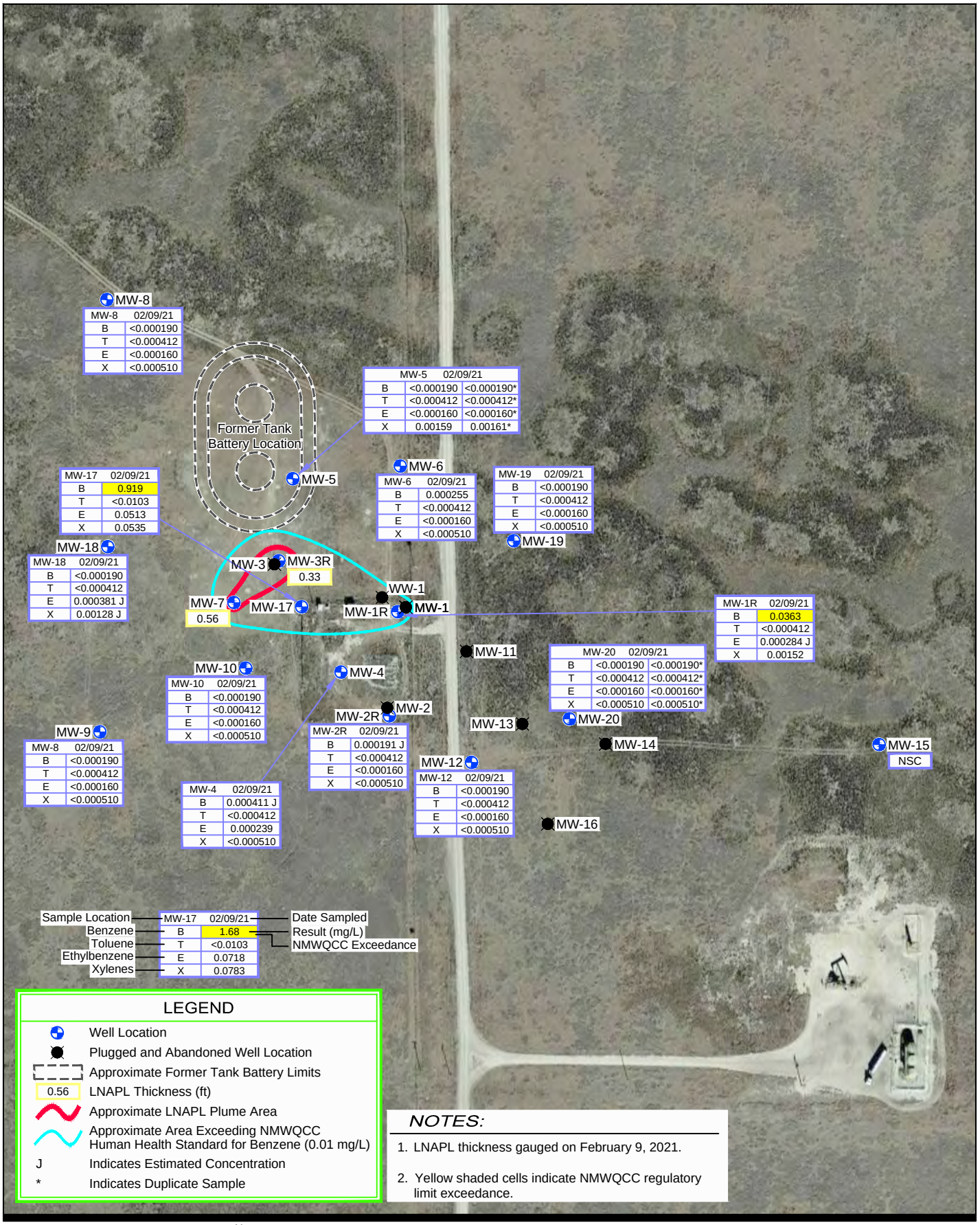

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Coordinate System: NAD 1983 (2011) StatePlane- New Mexico East (US Feet)

GHD

PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DENTON STATION

LNAPL THICKNESS AND GROUNDWATER BTEX CONCENTRATION MAP FEBRUARY 9, 2021

Project No. **11209870**
Date **February 2022**

FIGURE 7

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11209870\Digital_Design\ACAD 2018\Figures\11209870(GWR 2021)\11209870-GHD-0000-RPT-EN-0101_DL-001.dwg Plot Date: 01 February 2022 11:30 AM

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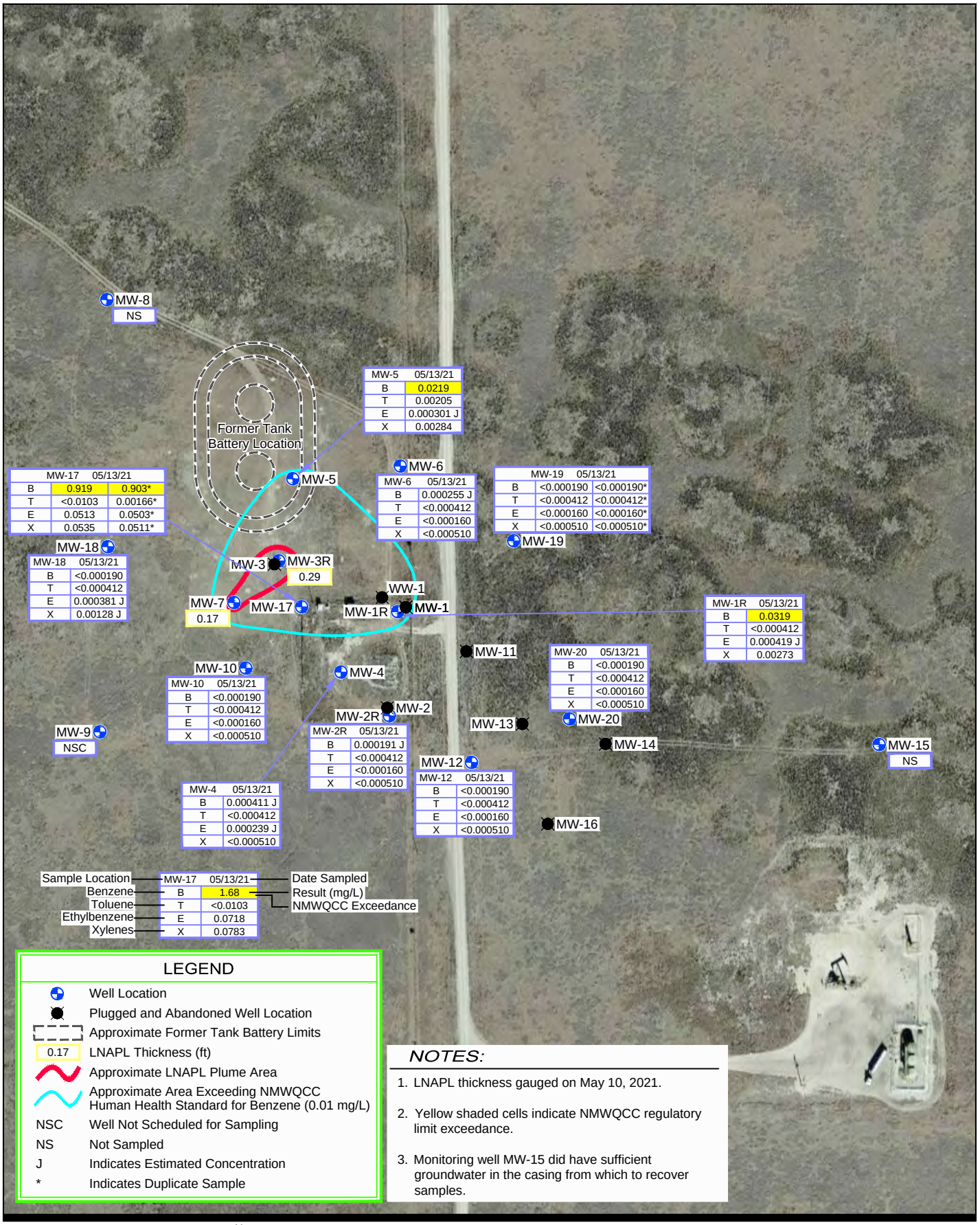

LEGEND

- Well Location
- Plugged and Abandoned Well Location
- Approximate Former Tank Battery Limits
- 0.17 — LNAPL Thickness (ft)
- Approximate LNAPL Plume Area
- Approximate Area Exceeding NMWQCC Human Health Standard for Benzene (0.01 mg/L)
- NSC — Well Not Scheduled for Sampling
- NS — Not Sampled
- J — Indicates Estimated Concentration
- * — Indicates Duplicate Sample

NOTES:

1. LNAPL thickness gauged on May 10, 2021.
2. Yellow shaded cells indicate NMWQCC regulatory limit exceedance.
3. Monitoring well MW-15 did have sufficient groundwater in the casing from which to recover samples.

0 100 200 ft

N

Coordinate System:
NAD 1983 (2011) StatePlane-
New Mexico East (US Feet)

GHD

PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DENTON STATION

LNAPL THICKNESS AND GROUNDWATER BTEX CONCENTRATION MAP MAY 13, 2021

Project No. **11209870**
Date **February 2022**

FIGURE 8

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11209870\Digital_Design\ACAD 2018\Figures\11209870(GWR 2021)\11209870-GHD-0000-RPT-EN-0101_DL-001.dwg
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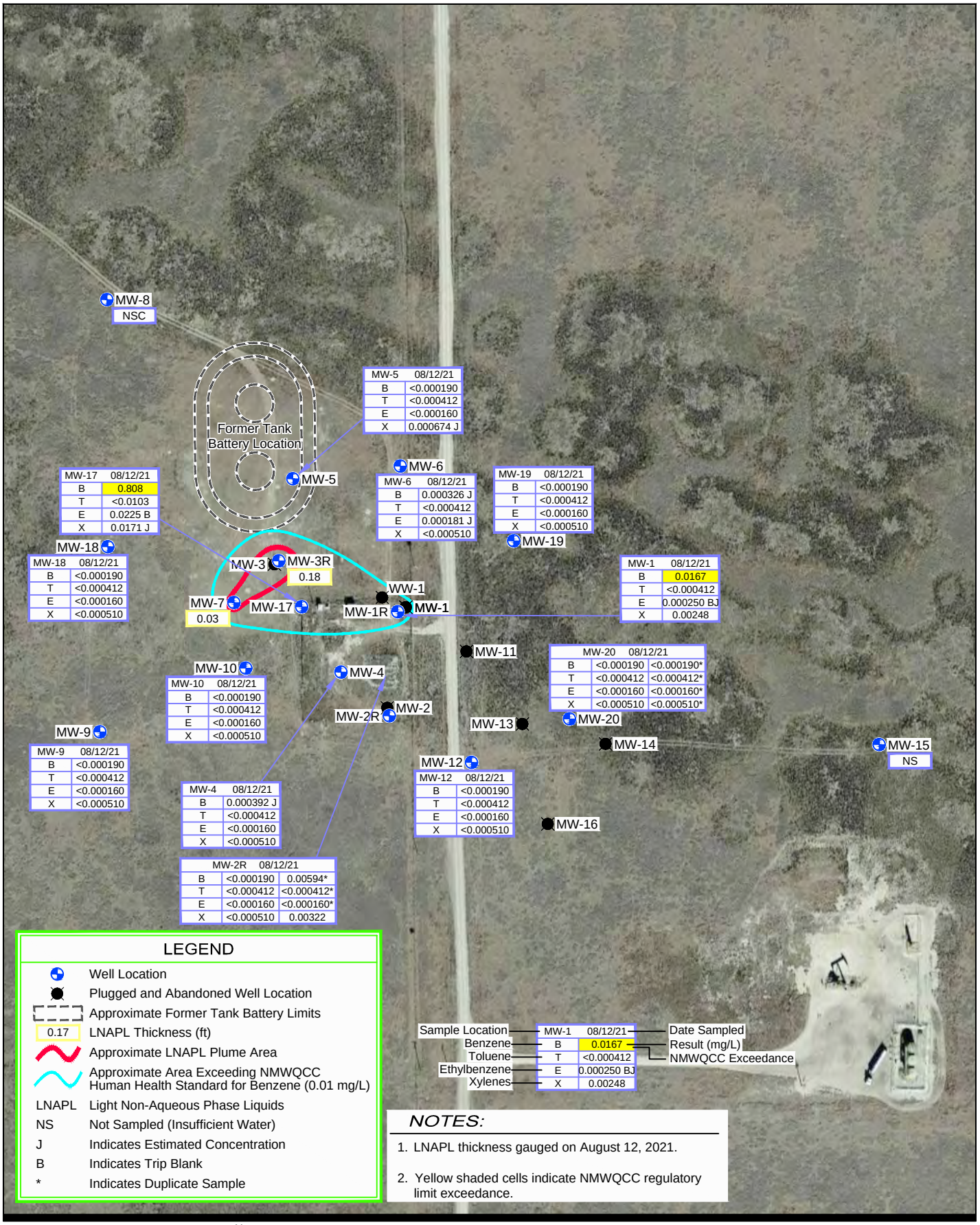

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Coordinate System: NAD 1983 (2011) StatePlane- New Mexico East (US Feet)

N

GHD

PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DENTON STATION

LNAPL THICKNESS AND GROUNDWATER BTEX CONCENTRATION MAP
AUGUST 12, 2021

Project No. 11209870
Date February 2022

FIGURE 9

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11209870\Digital_Design\ACAD 2018\Figures\11209870(GWR 2021)\11209870-GHD-0000-RPT-EN-0101_DL-001.dwg
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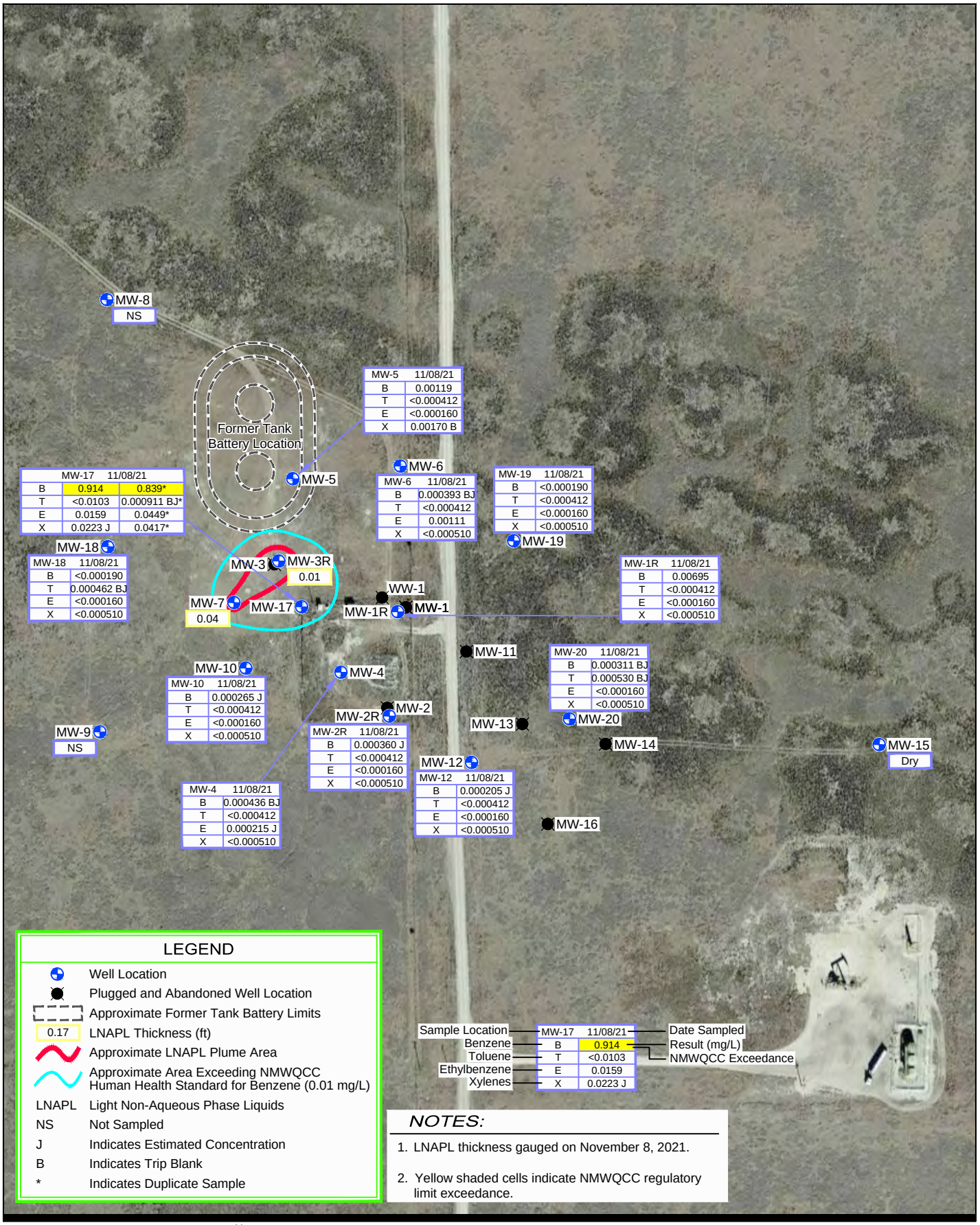

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Coordinate System: NAD 1983 (2011) StatePlane- New Mexico East (US Feet)

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GHD

PLAINS PIPELINE L.P.
LEA COUNTY, NEW MEXICO
DENTON STATION

LNAPL THICKNESS AND GROUNDWATER BTEX CONCENTRATION MAP
NOVEMBER 8, 2021

Project No. 11209870
Date February 2022

FIGURE 10

Filename: \\ghdnet\ghd\US\Midland\Projects\562\11209870\Digital_Design\ACAD 2018\Figures\11209870(GWR 2021)\11209870-GHD-0000-RPT-EN-0101_DL-001.dwg Data Source: Microsoft Product Screen shot(s) Reprinted with permission from Microsoft Corporation
Plot Date: 01 February 2022 11:29 AM
Lat/Long: 33.0175° North, 103.1624° West

Tables

Table 1

Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Well ID	Elevation of Top of Casing (famsl)	Date	Depth to Groundwater (fbtoc)	Depth to LNAPL (fbtoc)	Thickness of LNAPL (ft)	Elevation of Potentiometric Surface (famsl)	Measured Well Depth (fbtoc)	Well Screen Interval (fbgs) Well Diameter (in)	Volume Product Removed (gal.)	Volume Groundwater Bailed (gal.)	Volume Groundwater Removed by EFR (gal.)
MW-1R	3782.75	3/18/20	-	-	-	-	-	-	-	3	-
MW-1R	3782.75	4/27/20	65.49	-	0.00	3717.26	-	-	-	-	-
MW-1R	3782.75	5/11/20	65.51	-	0.00	3717.24	-	-	-	6	-
MW-1R	3782.75	6/18/20	65.60	-	0.00	3717.15	-	-	-	-	-
MW-1R	3782.75	7/27/20	65.66	-	0.00	3717.09	-	-	-	-	-
MW-1R	3782.75	8/27/20	65.71	-	0.00	3717.04	-	-	-	-	-
MW-1R	3782.75	9/15/20	65.75	-	0.00	3717.00	-	-	-	6	-
MW-1R	3782.75	10/29/20	65.86	-	0.00	3716.89	-	-	-	6	-
MW-1R	3782.75	12/11/20	65.95	-	0.00	3716.80	-	-	-	-	-
MW-1R	3782.75	1/26/21	66.04	-	0.00	3716.71	-	-	-	-	-
MW-1R	3782.75	2/8/21	66.07	-	0.00	3716.68	69.85	-	-	6	-
MW-1R	3782.75	3/23/21	66.11	-	0.00	3716.64	-	-	-	-	-
MW-1R	3782.75	4/26/21	66.18	-	0.00	3716.57	-	-	-	-	-
MW-1R	3782.75	5/10/21	66.22	-	0.00	3716.53	-	-	-	6.00	-
MW-1R	3782.75	7/28/21	66.39	-	0.00	3716.36	-	-	-	-	-
MW-1R	3782.75	8/11/21	66.41	-	0.00	3716.34	-	-	-	7	-
MW-1R	3782.75	9/27/21	66.47	-	0.00	3716.28	69.85	-	-	-	-
MW-1R	3782.75	10/26/21	66.52	-	0.00	3716.23	69.85	-	-	-	-
MW-1R	3782.75	11/8/21	66.54	-	0.00	3716.21	69.85	-	-	3	-
MW-2R	3784.17	4/27/20	67.10	-	0.00	3717.07	-	-	-	-	-
MW-2R	3784.17	5/11/20	67.12	-	0.00	3717.05	-	-	-	24.5	-
MW-2R	3784.17	6/18/20	67.20	-	0.00	3716.97	-	-	-	-	-
MW-2R	3784.17	7/27/20	67.25	-	0.00	3716.92	-	-	-	-	-
MW-2R	3784.17	8/27/20	67.32	-	0.00	3716.85	-	-	-	-	-
MW-2R	3784.17	9/15/20	67.36	-	0.00	3716.81	-	-	-	24.5	-
MW-2R	3784.17	10/29/20	67.47	-	0.00	3716.70	-	-	-	24.0	-
MW-2R	3784.17	12/11/20	67.53	-	0.00	3716.64	-	-	-	-	-
MW-2R	3784.17	1/26/21	67.64	-	0.00	3716.53	-	-	-	-	-
MW-2R	3784.17	2/8/21	67.63	-	0.00	3716.54	79.78	-	-	24.0	-
MW-2R	3784.17	3/23/21	67.72	-	0.00	3716.45	-	-	-	-	-
MW-2R	3784.17	4/26/21	67.78	-	0.00	3716.39	-	-	-	-	-
MW-2R	3784.17	5/10/21	67.83	-	0.00	3716.34	-	-	-	24.0	-
MW-2R	3784.17	7/28/21	67.97	-	0.00	3716.20	-	-	-	-	-

Table 1

Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Well ID	Elevation of Top of Casing (famsl)	Date	Depth to Groundwater (fbtoc)	Depth to LNAPL (fbtoc)	Thickness of LNAPL (ft)	Elevation of Potentiometric Surface (famsl)	Measured Well Depth (fbtoc)	Well Screen Interval (fbgs) Well Diameter (in)	Volume Product Removed (gal.)	Volume Groundwater Bailed (gal.)	Volume Groundwater Removed by EFR (gal.)
MW-2R	3784.17	8/11/21	68.00	-	0.00	3716.17	-	-	-	24.0	-
MW-2R	3784.17	9/27/21	68.08	-	0.00	3716.09	79.78	-	-	-	-
MW-2R	3784.17	10/26/21	68.12	-	0.00	3716.05	79.78	-	-	-	-
MW-2R	3784.17	11/8/21	68.14	-	0.00	3716.03	79.78	-	-	22	-
MW-3R	3786.00	1/22/20	68.47	68.27	0.20	3717.69	-	-	-	-	420
MW-3R	3786.00	2/26/20	68.54	68.34	0.20	3717.62	-	-	-	-	504
MW-3R	3786.00	4/27/20	68.57	68.41	0.16	3717.56	-	-	-	-	-
MW-3R	3786.00	5/11/20	68.63	68.44	0.19	3717.52	-	-	-	-	-
MW-3R	3786.00	5/22/20	68.67	68.45	0.22	3717.51	-	-	-	-	1,008
MW-3R	3786.00	6/18/20	68.64	68.50	0.14	3717.47	-	-	-	-	-
MW-3R	3786.00	7/27/20	68.81	68.56	0.25	3717.39	-	-	-	-	-
MW-3R	3786.00	8/27/20	68.94	68.60	0.34	3717.34	-	-	-	-	-
MW-3R	3786.00	9/4/20	68.99	68.63	0.36	3717.30	-	-	-	-	252
MW-3R	3786.00	9/15/20	68.94	68.69	0.25	3717.26	-	-	-	-	-
MW-3R	3786.00	10/29/20	69.12	68.76	0.36	3717.17	-	-	-	-	-
MW-3R	3786.00	11/13/20	69.19	68.77	0.42	3717.15	-	-	-	-	336
MW-3R	3786.00	12/11/20	69.00	68.88	0.12	3717.10	-	-	-	-	-
MW-3R	3786.00	1/26/21	69.24	68.96	0.28	3716.99	-	-	-	-	-
MW-3R	3786.00	2/8/21	69.26	68.93	0.33	3717.01	80.15	-	-	-	-
MW-3R	3786.00	3/5/21	69.38	69.01	0.37	3716.92	-	-	-	-	420
MW-3R	3786.00	3/23/21	69.25	69.06	0.19	3716.90	-	-	-	-	-
MW-3R	3786.00	4/26/21	69.32	69.10	0.22	3716.86	-	-	-	-	-
MW-3R	3786.00	5/10/21	69.42	69.13	0.29	3716.81	-	-	-	-	-
MW-3R	3786.00	5/14/21	69.42	69.12	0.30	3716.82	-	-	-	-	210
MW-3R	3786.00	7/28/21	69.55	69.28	0.27	3716.67	-	-	-	-	-
MW-3R	3786.00	8/6/21	69.93	69.31	0.62	3716.57	-	-	-	-	504
MW-3R	3786.00	8/11/21	69.50	69.32	0.18	3716.65	-	-	-	-	
MW-3R	3786.00	9/27/21	69.68	69.40	0.28	3716.55	80.15	-	-	-	-
MW-3R	3786.00	10/26/21	69.74	69.41	0.33	3716.53	80.15	-	-	-	-
MW-3R	3786.00	11/5/21	69.79	69.46	0.33	3716.48	-	-	-	-	420
MW-3R	3786.00	11/8/21	69.52	69.51	0.01	3716.49	80.15	-	-	-	-
MW-4	3783.81	4/27/20	66.98	-	0.00	3716.83	-	-	-	-	-
MW-4	3783.81	5/11/20	66.59	-	0.00	3717.22	-	-	-	11.0	-

Table 1

Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Well ID	Elevation of Top of Casing (famsl)	Date	Depth to Groundwater (fbtoc)	Depth to LNAPL (fbtoc)	Thickness of LNAPL (ft)	Elevation of Potentiometric Surface (famsl)	Measured Well Depth (fbtoc)	Well Screen Interval (fbgs) Well Diameter (in)	Volume Product Removed (gal.)	Volume Groundwater Bailed (gal.)	Volume Groundwater Removed by EFR (gal.)
MW-4	3783.81	6/18/20	66.68	-	0.00	3717.13	-	-	-	-	-
MW-4	3783.81	7/27/20	66.73	-	0.00	3717.08	-	-	-	-	-
MW-4	3783.81	8/27/20	66.80	-	0.00	3717.01	-	-	-	-	-
MW-4	3783.81	9/15/20	66.82	-	0.00	3716.99	-	-	-	11.0	-
MW-4	3783.81	10/29/20	66.94	-	0.00	3716.87	-	-	-	10.0	-
MW-4	3783.81	12/11/20	67.02	-	0.00	3716.79	-	-	-	-	-
MW-4	3783.81	1/26/21	67.13	-	0.00	3716.68	-	-	-	-	-
MW-4	3783.81	2/8/21	67.05	-	0.00	3716.76	71.96	-	-	8.0	-
MW-4	3783.81	3/23/21	67.20	-	0.00	3716.61	-	-	-	-	-
MW-4	3783.81	4/26/21	67.26	-	0.00	3716.55	-	-	-	-	-
MW-4	3783.81	5/10/21	67.31	-	0.00	3716.50	-	-	-	8.00	-
MW-4	3783.81	7/28/21	67.45	-	0.00	3716.36	-	-	-	-	-
MW-4	3783.81	8/11/21	67.48	-	0.00	3716.33	-	-	-	9.0	-
MW-4	3783.81	9/27/21	67.56	-	0.00	3716.25	71.96	-	-	-	-
MW-4	3783.81	10/26/21	67.63	-	0.00	3716.18	71.96	-	-	-	-
MW-4	3783.81	11/8/21	67.65	-	0.00	3716.16	71.96	-	-	5.0	-
MW-5	3784.28	3/18/20	-	-	-	-	-	-	-	3.0	-
MW-5	3784.28	4/27/20	67.69	-	0.00	3716.59	-	-	-	-	-
MW-5	3784.28	5/11/20	66.73	-	0.00	3717.55	-	-	-	10.0	-
MW-5	3784.28	6/18/20	66.65	-	0.00	3717.63	-	-	-	-	-
MW-5	3784.28	7/27/20	66.75	-	0.00	3717.53	-	-	-	-	-
MW-5	3784.28	8/27/20	66.81	-	0.00	3717.47	-	-	-	-	-
MW-5	3784.28	9/15/20	66.87	-	0.00	3717.41	-	-	-	10.0	-
MW-5	3784.28	10/29/20	66.93	-	0.00	3717.35	-	-	-	8.0	-
MW-5	3784.28	12/11/20	67.01	-	0.00	3717.27	-	-	-	-	-
MW-5	3784.28	1/26/21	67.12	-	0.00	3717.16	-	-	-	-	-
MW-5	3784.28	2/8/21	67.11	-	0.00	3717.17	71.80	-	-	8.0	-
MW-5	3784.28	3/23/21	67.20	-	0.00	3717.08	-	-	-	-	-
MW-5	3784.28	4/26/21	67.26	-	0.00	3717.02	-	-	-	-	-
MW-5	3784.28	5/10/21	67.32	-	0.00	3716.96	-	-	-	8.00	-
MW-5	3784.28	7/28/21	67.46	-	0.00	3716.82	-	-	-	-	-
MW-5	3784.28	8/11/21	67.48	-	0.00	3716.80	-	-	-	9.0	-
MW-5	3784.28	9/27/21	67.56	-	0.00	3716.72	71.80	-	-	-	-
MW-5	3784.28	10/26/21	67.52	-	0.00	3716.76	71.80	-	-	-	-

Table 1

Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Well ID	Elevation of Top of Casing (famsl)	Date	Depth to Groundwater (fbtoc)	Depth to LNAPL (fbtoc)	Thickness of LNAPL (ft)	Elevation of Potentiometric Surface (famsl)	Measured Well Depth (fbtoc)	Well Screen Interval (fbgs) Well Diameter (in)	Volume Product Removed (gal.)	Volume Groundwater Bailed (gal.)	Volume Groundwater Removed by EFR (gal.)
MW-5	3784.28	11/8/21	67.52	-	0.00	3716.76	71.80	-	-	5	-
MW-6	3785.79	4/27/20	68.28	-	0.00	3717.51	-	-	-	-	-
MW-6	3785.79	5/11/20	68.32	-	0.00	3717.47	-	-	-	10.0	-
MW-6	3785.79	6/18/20	68.37	-	0.00	3717.42	-	-	-	-	-
MW-6	3785.79	7/27/20	68.42	-	0.00	3717.37	-	-	-	-	-
MW-6	3785.79	8/27/20	68.48	-	0.00	3717.31	-	-	-	-	-
MW-6	3785.79	9/15/20	68.55	-	0.00	3717.24	-	-	-	10.0	-
MW-6	3785.79	10/29/20	68.63	-	0.00	3717.16	-	-	-	10.0	-
MW-6	3785.79	12/11/20	68.72	-	0.00	3717.07	-	-	-	-	-
MW-6	3785.79	1/26/21	68.84	-	0.00	3716.95	-	-	-	-	-
MW-6	3785.79	2/8/21	68.82	-	0.00	3716.97	73.60	-	-	10.0	-
MW-6	3785.79	3/23/21	68.91	-	0.00	3716.88	-	-	-	-	-
MW-6	3785.79	4/26/21	68.87	-	0.00	3716.92	-	-	-	-	-
MW-6	3785.79	5/10/21	68.01	-	0.00	3717.78	-	-	-	9.5	-
MW-6	3785.79	7/28/21	69.16	-	0.00	3716.63	-	-	-	-	-
MW-6	3785.79	8/11/21	69.17	-	0.00	3716.62	-	-	-	8.5	-
MW-6	3785.79	9/27/21	69.25	-	0.00	3716.54	73.60	-	-	-	-
MW-6	3785.79	10/26/21	69.29	-	0.00	3716.50	73.60	-	-	-	-
MW-6	3785.79	11/8/21	68.29	-	0.00	3717.50	73.60	-	-	10	-
MW-7	3783.06	4/27/20	65.76	65.41	0.35	3717.58	-	-	-	-	-
MW-7	3783.06	5/11/20	65.79	65.44	0.35	3717.55	-	-	-	-	-
MW-7	3783.06	6/18/20	65.94	65.53	0.41	3717.45	-	-	-	-	-
MW-7	3783.06	7/27/20	66.02	65.55	0.47	3717.42	-	-	-	-	-
MW-7	3783.06	8/27/20	66.08	65.60	0.48	3717.37	-	-	-	-	-
MW-7	3783.06	9/4/20	66.12	65.64	0.48	3717.33	-	-	-	-	420
MW-7	3783.06	9/15/20	65.85	65.78	0.07	3717.27	-	-	-	-	-
MW-7	3783.06	10/29/20	65.89	65.88	0.01	3717.18	-	-	-	-	-
MW-7	3783.06	12/11/20	66.04	65.90	0.14	3717.13	-	-	-	-	-
MW-7	3783.06	1/26/21	66.15	66.00	0.15	3717.03	-	-	-	-	-
MW-7	3783.06	2/8/21	66.15	65.59	0.56	3717.36	69.91	-	-	-	-
MW-7	3783.06	3/23/21	66.25	66.08	0.17	3716.95	-	-	-	-	-
MW-7	3783.06	4/26/21	66.30	66.14	0.16	3716.89	-	-	-	-	-
MW-7	3783.06	5/10/21	66.37	66.20	0.17	3716.83	-	-	-	-	-

Table 1

Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Well ID	Elevation of Top of Casing (famsl)	Date	Depth to Groundwater (fbtoc)	Depth to LNAPL (fbtoc)	Thickness of LNAPL (ft)	Elevation of Potentiometric Surface (famsl)	Measured Well Depth (fbtoc)	Well Screen Interval (fbgs) Well Diameter (in)	Volume Product Removed (gal.)	Volume Groundwater Bailed (gal.)	Volume Groundwater Removed by EFR (gal.)
MW-7	3783.06	5/14/21	66.36	66.18	0.18	3716.85	-	-	-	-	42
MW-7	3783.06	7/28/21	66.36	66.34	0.02	3716.72	-	-	-	-	-
MW-7	3783.06	8/11/21	66.50	66.47	0.03	3716.58	-	-	-	-	-
MW-7	3783.06	9/27/21	66.50	66.47	0.03	3716.58	69.91	-	-	-	-
MW-7	3783.06	10/26/21	66.58	66.55	0.03	3716.50	69.91	-	-	-	-
MW-7	3783.06	11/8/21	66.60	66.56	0.04	3716.49	69.91	-	-	-	-
MW-8	3785.88	4/27/20	67.54	-	0.00	3718.34	-	-	-	-	-
MW-8	3785.88	5/11/20	67.59	-	0.00	3718.29	-	-	-	-	-
MW-8	3785.88	6/18/20	67.64	-	0.00	3718.24	-	-	-	-	-
MW-8	3785.88	7/27/20	67.70	-	0.00	3718.18	-	-	-	-	-
MW-8	3785.88	8/27/20	67.77	-	0.00	3718.11	-	-	-	-	-
MW-8	3785.88	9/15/20	67.90	-	0.00	3717.98	-	-	-	0.0	-
MW-8	3785.88	10/29/20	67.92	-	0.00	3717.96	-	-	-	-	-
MW-8	3785.88	12/11/20	68.00	-	0.00	3717.88	-	-	-	-	-
MW-8	3785.88	1/26/21	68.13	-	0.00	3717.75	-	-	-	-	-
MW-8	3785.88	2/8/21	68.09	-	0.00	3717.79	74.10	-	-	12.0	-
MW-8	3785.88	3/23/21	68.18	-	0.00	3717.70	-	-	-	-	-
MW-8	3785.88	4/26/21	68.24	-	0.00	3717.64	-	-	-	-	-
MW-8	3785.88	5/10/21	68.31	-	0.00	3717.57	-	-	-	-	-
MW-8	3785.88	7/28/21	68.44	-	0.00	3717.44	-	-	-	-	-
MW-8	3785.88	8/11/21	68.47	-	0.00	3717.41	-	-	-	-	-
MW-8	3785.88	9/27/21	68.57	-	0.00	3717.31	74.10	-	-	-	-
MW-8	3785.88	10/26/21	68.59	-	0.00	3717.29	74.10	-	-	-	-
MW-8	3785.88	11/8/21	68.62	-	0.00	3717.26	74.10	-	-	-	-
MW-9	3784.08	4/27/20	66.48	-	0.00	3717.60	-	-	-	-	-
MW-9	3784.08	5/11/20	66.55	-	0.00	3717.53	-	-	-	13.0	-
MW-9	3784.08	6/18/20	66.60	-	0.00	3717.48	-	-	-	-	-
MW-9	3784.08	7/27/20	66.68	-	0.00	3717.40	-	-	-	-	-
MW-9	3784.08	8/27/20	66.75	-	0.00	3717.33	-	-	-	-	-
MW-9	3784.08	9/15/20	66.78	-	0.00	3717.30	-	-	-	13.0	-
MW-9	3784.08	10/29/20	66.90	-	0.00	3717.18	-	-	-	-	-
MW-9	3784.08	12/11/20	66.96	-	0.00	3717.12	-	-	-	-	-
MW-9	3784.08	1/26/21	67.17	-	0.00	3716.91	-	-	-	-	-

Table 1

Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Well ID	Elevation of Top of Casing (famsl)	Date	Depth to Groundwater (fbtoc)	Depth to LNAPL (fbtoc)	Thickness of LNAPL (ft)	Elevation of Potentiometric Surface (famsl)	Measured Well Depth (fbtoc)	Well Screen Interval (fbgs) Well Diameter (in)	Volume Product Removed (gal.)	Volume Groundwater Bailed (gal.)	Volume Groundwater Removed by EFR (gal.)
MW-9	3784.08	2/8/21	67.08	-	0.00	3717.00	73.25	-	-	12.0	-
MW-9	3784.08	3/23/21	67.17	-	0.00	3716.91	-	-	-	-	-
MW-9	3784.08	4/26/21	67.22	-	0.00	3716.86	-	-	-	-	-
MW-9	3784.08	5/10/21	67.28	-	0.00	3716.80	-	-	-	-	-
MW-9	3784.08	7/28/21	67.42	-	0.00	3716.66	-	-	-	-	-
MW-9	3784.08	8/11/21	67.45	-	0.00	3716.63	-	-	-	11.0	-
MW-9	3784.08	9/27/21	67.53	-	0.00	3716.55	73.25	-	-	-	-
MW-9	3784.08	10/26/21	67.57	-	0.00	3716.51	73.25	-	-	-	-
MW-9	3784.08	11/8/21	67.59	-	0.00	3716.49	73.25	-	-	-	-
MW-10	3782.15	4/27/20	64.75	-	0.00	3717.40	-	-	-	-	-
MW-10	3782.15	5/11/20	64.77	-	0.00	3717.38	-	-	-	1.0	-
MW-10	3782.15	6/18/20	64.80	-	0.00	3717.35	-	-	-	-	-
MW-10	3782.15	7/27/20	64.87	-	0.00	3717.28	-	-	-	-	-
MW-10	3782.15	8/27/20	64.95	-	0.00	3717.20	-	-	-	-	-
MW-10	3782.15	9/15/20	65.00	-	0.00	3717.15	-	-	-	1.0	-
MW-10	3782.15	10/29/20	65.12	-	0.00	3717.03	-	-	-	Pull sample	-
MW-10	3782.15	12/11/20	65.18	-	0.00	3716.97	-	-	-	-	-
MW-10	3782.15	1/26/21	65.28	-	0.00	3716.87	-	-	-	-	-
MW-10	3782.15	2/8/21	65.27	-	0.00	3716.88	66.50	-	-	0.5	-
MW-10	3782.15	3/23/21	65.36	-	0.00	3716.79	-	-	-	-	-
MW-10	3782.15	4/26/21	65.42	-	0.00	3716.73	-	-	-	-	-
MW-10	3782.15	5/10/21	65.47	-	0.00	3716.68	-	-	-	0.5	-
MW-10	3782.15	7/28/21	65.63	-	0.00	3716.52	-	-	-	-	-
MW-10	3782.15	8/11/21	65.65	-	0.00	3716.50	-	-	-	0.5	-
MW-10	3782.15	9/27/21	65.72	-	0.00	3716.43	66.50	-	-	-	-
MW-10	3782.15	10/26/21	65.77	-	0.00	3716.38	66.50	-	-	-	-
MW-10	3782.15	11/8/21	65.79	-	0.00	3716.36	66.50	-	-	0.5	-
MW-11	P&A	2/19/20									
MW-12	3780.75	4/27/20	63.95	-	0.00	3716.80	-	-	-	-	-
MW-12	3780.75	5/11/20	63.98	-	0.00	3716.77	-	-	-	1.5	-
MW-12	3780.75	6/18/20	64.04	-	0.00	3716.71	-	-	-	-	-
MW-12	3780.75	7/27/20	64.10	-	0.00	3716.65	-	-	-	-	-

Table 1

Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Well ID	Elevation of Top of Casing (famsl)	Date	Depth to Groundwater (fbtoc)	Depth to LNAPL (fbtoc)	Thickness of LNAPL (ft)	Elevation of Potentiometric Surface (famsl)	Measured Well Depth (fbtoc)	Well Screen Interval (fbgs) Well Diameter (in)	Volume Product Removed (gal.)	Volume Groundwater Bailed (gal.)	Volume Groundwater Removed by EFR (gal.)
MW-12	3780.75	8/27/20	64.17	-	0.00	3716.58	-	-	-	-	-
MW-12	3780.75	9/15/20	64.25	-	0.00	3716.50	-	-	-	1.5	-
MW-12	3780.75	10/29/20	64.32	-	0.00	3716.43	-	-	-	1.5	-
MW-12	3780.75	12/11/20	64.38	-	0.00	3716.37	-	-	-	-	-
MW-12	3780.75	1/26/21	64.48	-	0.00	3716.27	-	-	-	-	-
MW-12	3780.75	2/8/21	64.51	-	0.00	3716.24	67.32	-	-	1.5	-
MW-12	3780.75	3/23/21	64.60	-	0.00	3716.15	-	-	-	-	-
MW-12	3780.75	4/26/21	64.62	-	0.00	3716.13	-	-	-	-	-
MW-12	3780.75	5/10/21	64.67	-	0.00	3716.08	-	-	-	1.00	-
MW-12	3780.75	7/28/21	64.82	-	0.00	3715.93	-	-	-	-	-
MW-12	3780.75	8/11/21	64.83	-	0.00	3715.92	-	-	-	1.5	-
MW-12	3780.75	9/27/21	64.92	-	0.00	3715.83	67.32	-	-	-	-
MW-12	3780.75	10/26/21	64.97	-	0.00	3715.78	67.32	-	-	-	-
MW-12	3780.75	11/8/21	64.99	-	0.00	3715.76	67.32	-	-	0.5	-
MW-13	P&A	2/19/20									
MW-14	P&A	2/19/20									
MW-15	3782.34	4/27/20	66.37	-	0.00	3715.97	-	-	-	-	-
MW-15	3782.34	5/11/20	66.41	-	0.00	3715.93	-	-	-	-	-
MW-15	3782.34	6/18/20	Dry	-	0.00	-	67.17	-	-	-	-
MW-15	3782.34	7/27/20	66.53	-	0.00	3715.81	-	-	-	-	-
MW-15	3782.34	8/27/20	66.60	-	0.00	3715.74	-	-	-	-	-
MW-15	3782.34	9/15/20	66.63	-	0.00	3715.71	-	-	-	0.0	-
MW-15	3782.34	10/29/20	66.75	-	0.00	3715.59	-	-	-	-	-
MW-15	3782.34	12/11/20	66.82	-	0.00	3715.52	-	-	-	-	-
MW-15	3782.34	1/26/21	66.91	-	0.00	3715.43	-	-	-	-	-
MW-15	3782.34	2/8/21	66.92	-	0.00	3715.42	67.10	-	-	0.0	-
MW-15	3782.34	3/23/21	67.00	-	0.00	3715.34	67.21	-	-	-	-
MW-15	3782.34	4/26/21	67.02	-	0.00	3715.32	-	-	-	-	-
MW-15	3782.34	5/10/21	67.10	-	0.00	3715.24	67.20	-	-	0.00	-
MW-15	3782.34	7/28/21	67.08	-	0.00	3715.26	67.20	-	-	-	-
MW-15	3782.34	8/11/21	67.13	-	0.00	3715.21	67.20	-	-	-	-
MW-15	3782.34	9/27/21	-	-	-	Dry	67.10	-	-	-	-

Table 1

Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Well ID	Elevation of Top of Casing (famsl)	Date	Depth to Groundwater (fbtoc)	Depth to LNAPL (fbtoc)	Thickness of LNAPL (ft)	Elevation of Potentiometric Surface (famsl)	Measured Well Depth (fbtoc)	Well Screen Interval (fbgs) Well Diameter (in)	Volume Product Removed (gal.)	Volume Groundwater Bailed (gal.)	Volume Groundwater Removed by EFR (gal.)
MW-15	3782.34	10/26/21	-	-	-	Dry	67.10	-	-	-	-
MW-15	3782.34	11/8/21	-	-	-	Dry	67.10	-	-	-	-
MW-16	P&A	2/19/20									
MW-17	3784.40	2/10/20	66.88	-	0.00	3717.52	75.03	-	-	16.0	-
MW-17	3784.40	3/18/20	-	-	-	-	-	-	-	3.0	-
MW-17	3784.40	4/27/20	67.01	-	0.00	3717.39	-	-	-	-	-
MW-17	3784.40	5/11/20	67.02	-	0.00	3717.38	-	-	-	16.0	-
MW-17	3784.40	6/18/20	66.87	-	0.00	3717.53	-	-	-	-	-
MW-17	3784.40	7/27/20	66.94	-	0.00	3717.46	-	-	-	-	-
MW-17	3784.40	8/27/20	67.01	-	0.00	3717.39	-	-	-	-	-
MW-17	3784.40	9/15/20	67.26	-	0.00	3717.14	-	-	-	16.0	-
MW-17	3784.40	10/29/20	67.38	-	0.00	3717.02	-	-	-	15.0	-
MW-17	3784.40	12/11/20	67.45	-	0.00	3716.95	-	-	-	-	-
MW-17	3784.40	1/26/21	67.56	-	0.00	3716.84	-	-	-	-	-
MW-17	3784.40	2/8/21	67.57	-	0.00	3716.83	75.15	-	-	16.0	-
MW-17	3784.40	3/23/21	67.62	-	0.00	3716.78	-	-	-	-	-
MW-17	3784.40	4/26/21	67.47	-	0.00	3716.93	-	-	-	-	-
MW-17	3784.40	5/10/21	67.75	-	0.00	3716.65	-	-	-	16.0	-
MW-17	3784.40	7/28/21	67.67	-	0.00	3716.73	-	-	-	-	-
MW-17	3784.40	8/11/21	67.92	-	0.00	3716.48	-	-	-	14.0	-
MW-17	3784.40	9/27/21	68.00	-	0.00	3716.40	75.15	-	-	-	-
MW-17	3784.40	10/26/21	68.03	-	0.00	3716.37	75.15	-	-	-	-
MW-17	3784.40	11/8/21	68.05	-	0.00	3716.35	75.15	-	-	14.0	-
MW-18	3786.46	4/15/20	-	-	-	-	-	-	-	15.0	-
MW-18	3786.46	4/27/20	68.82	-	0.00	3717.64	-	-	-	-	-
MW-18	3786.46	5/11/20	68.87	-	0.00	3717.59	-	-	-	9.5	-
MW-18	3786.46	6/18/20	68.91	-	0.00	3717.55	-	-	-	-	-
MW-18	3786.46	7/27/20	68.99	-	0.00	3717.47	-	-	-	-	-
MW-18	3786.46	8/27/20	69.06	-	0.00	3717.40	-	-	-	-	-
MW-18	3786.46	9/15/20	69.10	-	0.00	3717.36	-	-	-	9.5	-
MW-18	3786.46	10/29/20	69.21	-	0.00	3717.25	-	-	-	9.0	-
MW-18	3786.46	12/11/20	69.28	-	0.00	3717.18	-	-	-	-	-

Table 1

Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Well ID	Elevation of Top of Casing (famsl)	Date	Depth to Groundwater (fbtoc)	Depth to LNAPL (fbtoc)	Thickness of LNAPL (ft)	Elevation of Potentiometric Surface (famsl)	Measured Well Depth (fbtoc)	Well Screen Interval (fbgs) Well Diameter (in)	Volume Product Removed (gal.)	Volume Groundwater Bailed (gal.)	Volume Groundwater Removed by EFR (gal.)
MW-18	3786.46	1/26/21	69.38	-	0.00	3717.08	-	-	-	-	-
MW-18	3786.46	2/8/21	69.39	-	0.00	3717.07	88.06	-	-	10.5	-
MW-18	3786.46	3/23/21	69.17	-	0.00	3717.29	-	-	-	-	-
MW-18	3786.46	4/26/21	69.54	-	0.00	3716.92	-	-	-	-	-
MW-18	3786.46	5/10/21	69.57	-	0.00	3716.89	-	-	-	10.0	-
MW-18	3786.46	7/28/21	69.72	-	0.00	3716.74	-	-	-	-	-
MW-18	3786.46	8/11/21	69.75	-	0.00	3716.71	-	-	-	9.0	-
MW-18	3786.46	9/27/21	69.83	-	0.00	3716.63	88.06	-	-	-	-
MW-18	3786.46	10/26/21	69.89	-	0.00	3716.57	88.06	-	-	-	-
MW-18	3786.46	11/8/21	69.91	-	0.00	3716.55	88.06	-	-	10	-
MW-19	3783.49	3/10/20	-	-	-	-	-	-	-	15.0	-
MW-19	3783.49	4/27/20	66.51	-	0.00	3716.98	-	-	-	-	-
MW-19	3783.49	5/11/20	66.55	-	0.00	3716.94	-	-	-	12.0	-
MW-19	3783.49	6/18/20	66.61	-	0.00	3716.88	-	-	-	-	-
MW-19	3783.49	7/27/20	66.66	-	0.00	3716.83	-	-	-	-	-
MW-19	3783.49	8/27/20	66.73	-	0.00	3716.76	-	-	-	-	-
MW-19	3783.49	9/15/20	66.76	-	0.00	3716.73	-	-	-	12.0	-
MW-19	3783.49	10/29/20	66.89	-	0.00	3716.60	-	-	-	9.0	-
MW-19	3783.49	12/11/20	66.96	-	0.00	3716.53	-	-	-	-	-
MW-19	3783.49	1/26/21	67.06	-	0.00	3716.43	-	-	-	-	-
MW-19	3783.49	2/8/21	67.07	-	0.00	3716.42	85.10	-	-	9.0	-
MW-19	3783.49	3/23/21	67.13	-	0.00	3716.36	-	-	-	-	-
MW-19	3783.49	4/26/21	67.20	-	0.00	3716.29	-	-	-	-	-
MW-19	3783.49	5/10/21	67.25	-	0.00	3716.24	-	-	-	9.0	-
MW-19	3783.49	7/28/21	67.38	-	0.00	3716.11	-	-	-	-	-
MW-19	3783.49	8/11/21	67.43	-	0.00	3716.06	-	-	-	9.0	-
MW-19	3783.49	9/27/21	67.50	-	0.00	3715.99	85.10	-	-	-	-
MW-19	3783.49	10/26/21	67.54	-	0.00	3715.95	85.10	-	-	-	-
MW-19	3783.49	11/8/21	67.56	-	0.00	3715.93	85.10	-	-	9.0	-
MW-20	3781.34	3/3/20	-	-	-	-	-	-	-	15.0	-
MW-20	3781.34	4/27/20	64.81	-	0.00	3716.53	-	-	-	-	-
MW-20	3781.34	5/11/20	64.83	-	0.00	3716.51	-	-	-	11.5	-
MW-20	3781.34	6/18/20	64.91	-	0.00	3716.43	-	-	-	-	-

Table 1

Monthly Gauging and Elevation of the Potentiometric Surface Data for 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Well ID	Elevation of Top of Casing (famsl)	Date	Depth to Groundwater (fbtoc)	Depth to LNAPL (fbtoc)	Thickness of LNAPL (ft)	Elevation of Potentiometric Surface (famsl)	Measured Well Depth (fbtoc)	Well Screen Interval (fbgs) Well Diameter (in)	Volume Product Removed (gal.)	Volume Groundwater Bailed (gal.)	Volume Groundwater Removed by EFR (gal.)
MW-20	3781.34	7/27/20	64.96	-	0.00	3716.38	-	-	-	-	-
MW-20	3781.34	8/27/20	65.03	-	0.00	3716.31	-	-	-	-	-
MW-20	3781.34	9/15/20	65.04	-	0.00	3716.30	-	-	-	11.5	-
MW-20	3781.34	10/29/20	65.18	-	0.00	3716.16	-	-	-	11.0	-
MW-20	3781.34	12/11/20	65.27	-	0.00	3716.07	-	-	-	-	-
MW-20	3781.34	1/26/21	65.35	-	0.00	3715.99	-	-	-	-	-
MW-20	3781.34	2/8/21	65.36	-	0.00	3715.98	88.06	-	-	9.0	-
MW-20	3781.34	3/23/21	65.44	-	0.00	3715.90	-	-	-	-	-
MW-20	3781.34	4/26/21	65.48	-	0.00	3715.86	-	-	-	-	-
MW-20	3781.34	5/10/21	65.55	-	0.00	3715.79	-	-	-	9.0	-
MW-20	3781.34	7/28/21	65.67	-	0.00	3715.67	-	-	-	-	-
MW-20	3781.34	8/11/21	65.70	-	0.00	3715.64	-	-	-	11.0	-
MW-20	3781.34	9/27/21	65.79	-	0.00	3715.55	88.06	-	-	-	-
MW-20	3781.34	10/26/21	65.83	-	0.00	3715.51	88.06	-	-	-	-
MW-20	3781.34	11/8/21	65.85	-	0.00	3715.49	88.06	-	-	11.5	-

Notes:

1. famsl - .Feet above mean sea level
2. fbtoc - Feet below top of casing
3. LNAPL - Light non-aqueous phase liquid.
4. fbgs - Feet below ground surface
5. Specific gravity of 0.81 was used to calculate elevation of the potentiometric surface where measurable LNAPL was present.
6. MWs 1-9 have slotted intervals of 35-65' bgs with 4-in. diameter casings. MWs 10-17 have slotted intervals 35-65 feet bgs with 2-in. casings.

Table 2

BTEX Analytical Results for Groundwater Sampling Events 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-Benzene (mg/l)	Xylenes (mg/l)
		NMWQCC Human Health Standards			
		0.01	0.75	0.75	0.62
MW-1R	2/17/20	**0.0975**	<0.000412	**0.00152**	**0.00655**
MW-1R (DUP-1)	2/17/20	**0.0951**	<0.000412	**0.00210**	**0.00697**
MW-1R	5/22/20	**0.0459**	<0.000412	**0.000352**	**0.00210**
MW-1R	9/16/20	**0.0627**	<0.000412	**0.000539**	**0.00383**
MW-1R	10/30/20	**0.131**	<0.000412	**0.00110**	**0.00897**
MW-1R (DUP-1)	10/30/20	**0.115**	<0.000412	**0.00088**	**0.00718**
MW-1R	2/9/21	**0.0363**	<0.000412	**0.000284 J**	**0.00152**
MW-1R	5/13/21	**0.0319**	<0.000412	**0.000419 J**	**0.00273**
MW-1R	8/12/21	**0.0167**	<0.000412	**0.000250 B J**	**0.00248**
MW-1R	11/8/21	**0.00695**	<0.000412	<0.000160	<0.000510
MW-2R	2/17/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-2R	5/22/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-2R	9/16/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-2R	10/30/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-2R	2/9/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-2R	5/13/21	**0.000191 J**	<0.000412	<0.000160	<0.000510
MW-2R	8/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-2R (DUP-1)	8/12/21	**0.00594**	<0.000412	<0.000160	**0.00322**
MW-2R	11/8/21	**0.000360 J**	<0.000412	<0.000160	<0.000510
MW-4	2/17/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	5/22/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-4 (DUP-2)	5/22/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	9/16/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	10/30/20	**0.000350 J**	<0.000412	**0.000204 J**	<0.000510
MW-4	2/9/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-4	5/13/21	**0.000411 J**	<0.000412	**0.000239 J**	<0.000510
MW-4	8/12/21	**0.000392 J**	<0.000412	<0.000160	<0.000510
MW-4	11/8/21	**0.000436 B J**	<0.000412	**0.000215 J**	<0.000510
MW-5	2/17/20	**0.0157**	<0.000412	<0.000160	<0.000510
MW-5	5/22/20	**0.00327**	<0.000412	<0.000160	<0.000510
MW-5 (DUP-1)	5/22/20	**0.00524**	<0.000412	<0.000160	<0.000510
MW-5	9/16/20	**0.00991**	**0.0237**	<0.000160	**0.00340**
MW-5	10/30/20	**0.00594**	**0.000580 J**	**0.000987**	**0.00186**
MW-5	2/9/21	<0.000190	<0.000412	<0.000160	**0.00159**
MW-5 (DUP-2)	2/9/21	<0.000190	<0.000412	<0.000160	**0.00161**
MW-5	5/13/21	**0.0219**	**0.00205**	**0.000301 J**	**0.00284**
MW-5	8/12/21	<0.000190	<0.000412	<0.000160	**0.000674 J**
MW-5	11/8/21	**0.00119**	<0.000412	<0.000160	**0.00170 B**

11209870

Table 2

BTEX Analytical Results for Groundwater Sampling Events 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-Benzene (mg/l)	Xylenes (mg/l)
		NMWQCC Human Health Standards			
		0.01	0.75	0.75	0.62
MW-6	2/17/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	5/22/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	9/16/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	10/30/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	2/9/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-6	5/13/21	**0.000255 J**	<0.000412	<0.000160	<0.000510
MW-6	8/12/21	**0.000326 J**	<0.000412	**0.000181 J**	<0.000510
MW-6	11/8/21	**0.000393 B J**	<0.000412	**0.00111**	<0.000510
MW-8	2/17/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-8	2/9/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	2/17/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	5/22/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	9/16/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	2/9/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-9	8/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-10	2/17/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-10	5/22/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-10	9/16/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-10	10/30/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-10	2/9/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-10	5/13/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-10	8/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-10	11/8/21	**0.000265 J**	<0.000412	<0.000160	<0.000510
MW-12	2/17/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-12	5/22/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-12	9/16/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-12	10/30/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-12	2/9/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-12	5/13/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-12	8/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-12	11/8/21	**0.000205 J**	<0.000412	<0.000160	<0.000510
MW-15	2/17/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-17	2/17/20	**0.657**	<0.00206	**0.134**	**0.161**
MW-17	5/22/20	**1.530**	<0.00412	**0.0605**	**0.0635**
MW-17	9/16/20	**0.743**	**0.0547**	**0.0357**	**0.0735**
MW-17 (DUP-1)	9/16/20	**1.22**	**0.0639**	**0.0691**	**0.132**

Table 2

BTEX Analytical Results for Groundwater Sampling Events 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-Benzene (mg/l)	Xylenes (mg/l)
		NMWQCC Human Health Standards			
		0.01	0.75	0.75	0.62
MW-17	10/30/20	**0.790**	<0.0103	**0.0446**	**0.058**
MW-17	2/9/21	**1.68**	<0.0103	**0.0718**	**0.0783**
MW-17	5/13/21	**0.919**	<0.0103	**0.0513**	**0.0535**
MW-17 (DUP-2)	5/13/21	**0.903**	**0.00166**	**0.0503**	**0.0511**
MW-17	8/12/21	**0.808**	<0.0103	**0.0225 B**	**0.0171 J**
MW-17	11/8/21	**0.914**	<0.0103	**0.0159**	**0.0223 J**
MW-17 (DUP)	11/8/21	**0.839**	**0.000911 B J**	**0.0449**	**0.0417**
MW-18	5/22/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-18	9/16/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-18	10/30/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-18	2/9/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-18	5/13/21	<0.000190	<0.000412	**0.000381 J**	**0.00128 J**
MW-18	8/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-18	11/8/21	<0.000190	**0.000462 B J**	<0.000160	<0.000510
MW-19	3/25/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-19	5/22/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-19	9/16/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-19	10/30/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-19	2/9/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-19	5/13/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-19 (DUP-1)	5/13/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-19	8/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-19	11/8/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-20	3/25/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-20	5/22/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-20	9/16/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-20	10/30/20	<0.000190	<0.000412	<0.000160	<0.000510
MW-20	2/9/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-20 (DUP-1)	2/9/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-20	5/13/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-20	8/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-20 (DUP-2)	8/12/21	<0.000190	<0.000412	<0.000160	<0.000510
MW-20	11/8/21	**0.000311 B J**	**0.000530 B J**	<0.000160	<0.000510
Trip Blank	2/17/20	<0.000190	<0.000412	<0.000160	<0.000510

Table 2

BTEX Analytical Results for Groundwater Sampling Events 2020-2021
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-Benzene (mg/l)	Xylenes (mg/l)
		NMWQCC Human Health Standards			
		0.01	0.75	0.75	0.62

Notes:

1. Bold indicates detection.
2. BTEX analyzed by EPA Method 8021B.
3. Results shown in mg/L.
4. Yellow-shaded cells indicate concentrations that exceed the NMWQCC Human Health Standard.
5. J--The identification of the analyte is acceptable. The reported value is an estimate.
6. B--The same analyte is found in the associated blank. If the detection in the well is less than 5 times the detection in the blank, then the detection in the well should be considered as a non-detect.

Table 3

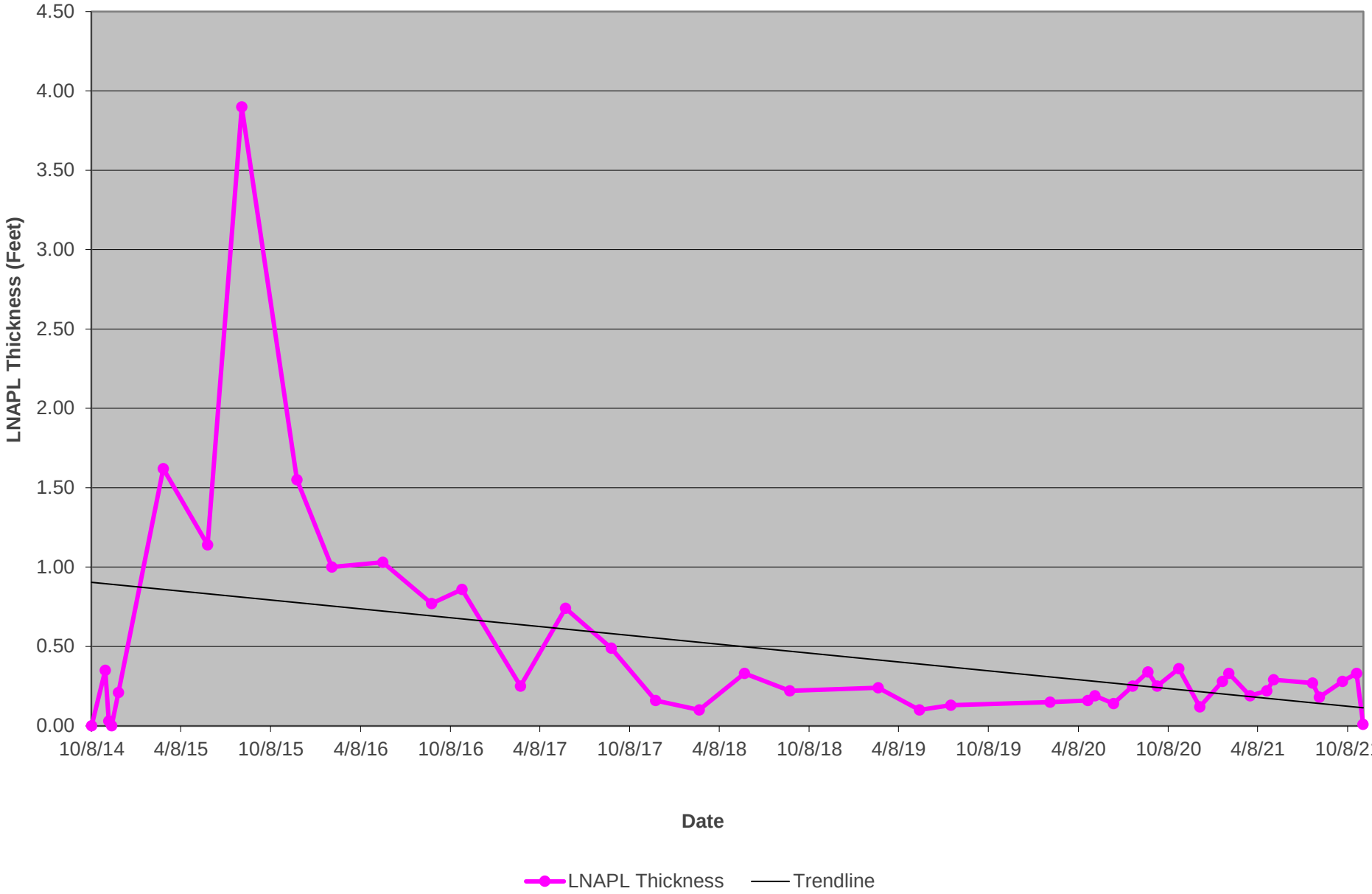
Polycyclic Aromatic Hydrocarbons Analytical Results
Plains Pipeline LP
Denton Station SRS #2003-00338
Lea County, New Mexico
NMOCD 1RP-0234

Sample ID	Sample Date	Anthracene (mg/L)	Acenaphthene (mg/L)	Acenaphthylene (mg/L)	Benzo(a)anthracene (mg/L)	Benzo(a)pyrene (mg/L)	Benzo(b)fluoranthene (mg/L)	Benzo(g,h,i)perylene (mg/L)	Benzo(k)fluoranthene (mg/L)	Chrysene (mg/L)	Dibenzo(a,h)anthracene (mg/L)	Dibenzofuran (mg/L)	Fluoranthene (mg/L)	Fluorene (mg/L)	Indeno(1,2,3-cd)pyrene (mg/L)	Phenanthrene (mg/L)	Pyrene (mg/L)	Naphthalene (mg/L)	1-Methylnaphthalene (mg/L)	2-Methylnaphthalene (mg/L)
		EPA and NMWQCC Human Health Standards																		
		0.001	0.001	0.001	0.001	0.0002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.03		
MW-1R	11/30/18	**0.0000522**	**0.0000596**	<0.0000120	<0.00000410	**0.0000164 B J**	**0.0000023 J**	<0.00000227	<0.0000136	<0.0000108	**0.0000181 B J**	**0.000520**	<0.0000157	**0.000426**	<0.0000148	**0.000459**	<0.0000117	**0.0123**	**0.00564**	**0.00530**
MW-1R	10/23/19	**0.0000404 J**	**0.0000581**	**0.0000120**	**0.00000410**	**0.0000116**	**0.00000212**	**0.00000227**	**0.0000136**	**0.0000108**	**0.00000396**	**0.000413**	<0.0000157	**0.000335**	<0.0000148	**0.000193**	**0.0000121 J**	**0.00264**	**0.00163**	**0.000991**
MW-2R	12/4/15	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200	<0.000200
MW-2R	11/3/16	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	**0.000287**	<0.000184	<0.000184	<0.000184
MW-4	12/4/15	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198	<0.000198
MW-4	11/3/16	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	<0.000186	**0.000351**	<0.000186	<0.000186	<0.000186
MW-5	10/30/20	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	**0.0000441 J**	**0.0000883**	<0.0000158	<0.0000180	**0.0000249 J**	<0.0000917	**0.000230 J**	**0.000149 J**
MW-5	11/8/21	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	**0.0000405 J**	<0.0000184	<0.0000202	**0.000114**	<0.0000160	**0.000562**	**0.000112**	**0.000887**	<0.0000158	**0.00131**	**0.0000732**	**0.000198 J**	**0.00295**	**0.00240**
MW-6	11/30/17	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	**0.000211**	<0.000185	**0.000222**	<0.000185	**0.000299**	<0.000185	**0.000472**	<0.000185	<0.000369	**0.00065**	<0.000185
MW-6	11/30/18	**0.0000927**	**0.0000392 J**	<0.0000120	<0.00000410	**0.0000167 B J**	**0.00000549 J**	**0.00000437 J**	<0.0000136	<0.0000108	**0.0000179 B J**	**0.0000485 B J**	<0.0000157	**0.0000211 J**	<0.0000148	**0.0000413 J**	**0.0000359 J**	**0.000260 B**	**0.0000145 J**	<0.00000902
MW-7	12/11/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	**0.0153**	<0.000183	**0.0218**	<0.000183	**0.0367**	<0.000183	**0.147**	**0.265**	**0.339**
MW-7	12/3/09	<0.000917	<0.000917	0.0270	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	<0.000917	**0.0663**	<0.000917	**0.105**	<0.000917	**0.149**	<0.000917	**0.416**	**1.04**	**1.43**
MW-8	12/11/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-8	12/3/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-9	12/11/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183
MW-9	12/3/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-10	12/5/12	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190	<0.000190
MW-10	12/4/15	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195	<0.000195
MW-12	12/4/15	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196	<0.000196
MW-12	11/30/18	<0.0000140	<0.0000100	<0.0000120	<0.00000410	**0.0000157 B J**	<0.00000212	<0.00000227	<0.0000136	<0.0000108	**0.0000176 B J**	**0.00000236 B J**	<0.0000157	<0.00000850	<0.0000148	<0.00000820	<0.0000117	**0.000140 B J**	<0.00000821	<0.00000902
MW-15	12/11/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-15	12/3/09	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184
MW-17	10/30/20	<0.0000190	**0.000631**	<0.0000171	**0.00019300**	<0.0000184	<0.0000168	<0.0000184	<0.0000202	**0.0001320**	<0.0000160	**0.00156**	**0.000100 J**	**0.00173**	<0.0000158	**0.00334**	<0.0000169	**0.0366**	**0.0300**	**0.0341**
MW-17	11/8/21	<0.0000190	**0.000404**	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	**0.00156**	<0.0000270	**0.00117**	<0.0000158	**0.00208**	**0.0000224 J**	**0.0477**	**0.0322**	**0.0367**
MW-18	10/30/20	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000180	<0.0000169	<0.0000917	<0.0000687	<0.0000674
MW-18	11/8/21	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000180	<0.0000169	<0.0000917	<0.0000687	<0.0000674
MW-19	10/30/20	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000180	<0.0000169	<0.0000917	<0.0000687	<0.0000674
MW-19	11/8/21	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000180	<0.0000169	<0.0000917	<0.0000687	<0.0000674
MW-20	10/30/20	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000180	<0.0000169	<0.0000917	<0.0000687	<0.0000674
MW-20	11/8/21	<0.0000190	<0.0000190	<0.0000171	<0.0000203	<0.0000184	<0.0000168	<0.0000184	<0.0000202	<0.0000179	<0.0000160	<0.0000191	<0.0000270	<0.0000169	<0.0000158	<0.0000180	<0.0000169	<0.0000917	<0.0000687	<0.0000674
WW-1	12/11/08	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	<0.000922	**0.027**	<0.000922	**0.0757**	<0.000922	**0.122**	<0.000922	**0.382**	**0.934**	**1.38**
WW-1	12/3/09	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	**0.00423**	<0.000183	**0.00792**	<0.000183	**0.0110**	<0.000183	**0.0355**	**0.0772**	**0.105**

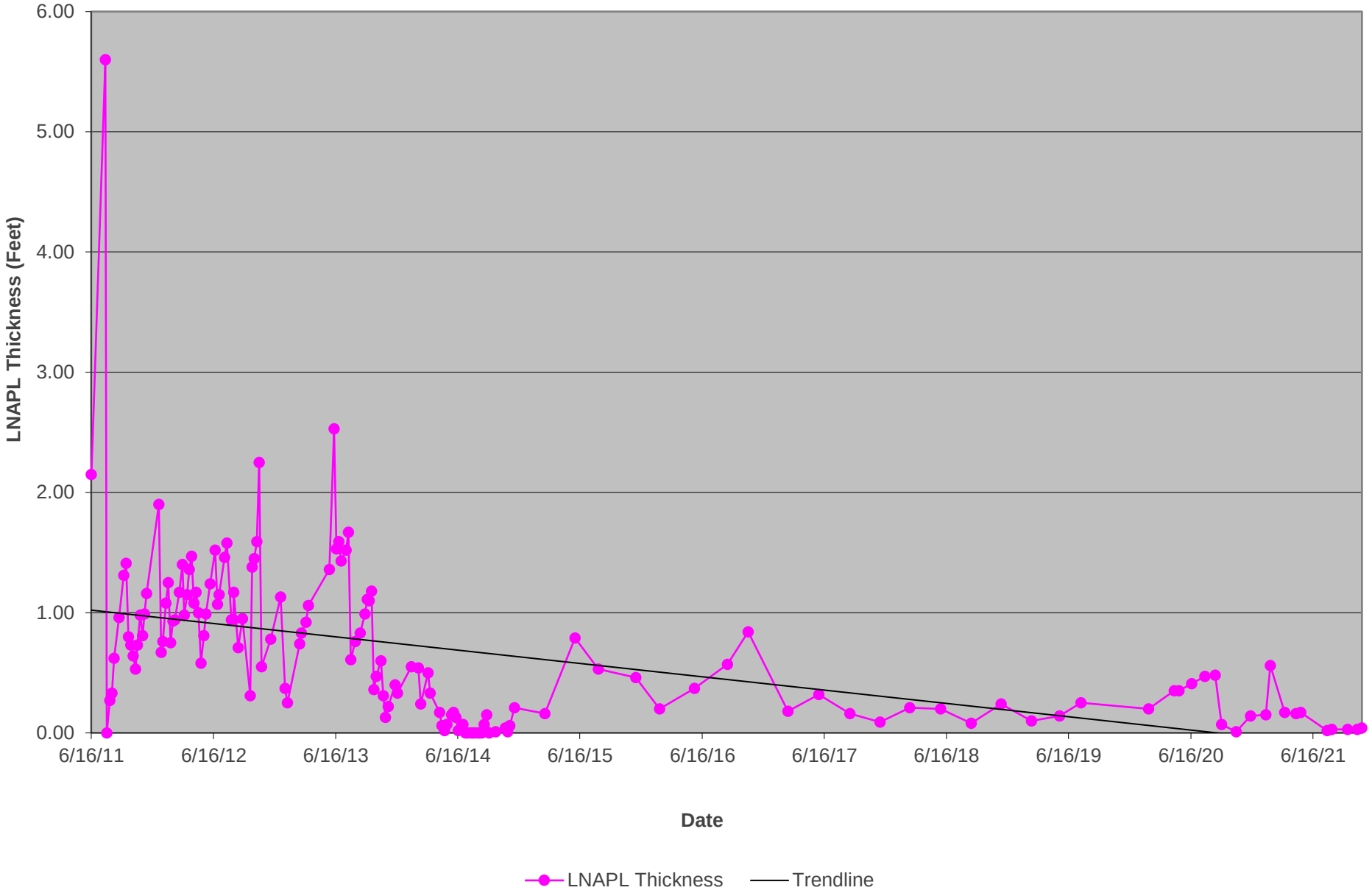
Notes:
1. Yellow shaded cells indicate New Mexico Oil Conservation Division Regulatory Limit exceedance. Well requires additional sampling.
2. Bold indicates detection.
3. PAH analyses by EPA Method 8270 or 8270C-SIM.
4. Results shown in mg/L.
5. B flag indicates the same analyte is found in the associated blank.
6. 2008 through 2010 results collected by NOVA.
7. 2011 through Present results collected by GHD.
8. NMWQCC Human Health Standard for combined napthalene + 1-methylnapthalene + 2-methlynapthalene is 0.03 mg/L per NMAC 20.6.2.3103 A.(1)(jj).
9. Standards noted above for benzo(a)anthracene, benzo(a)pyrene, and benzo(k)fluoranthene are from Table 1 in https://www.atsdr.cdc.gov/csem/csem.asp?csem=13&po=8
10. J flag indicates the identification of the analyte is acceptable; the reported value is an estimate.

Appendix A
Charts of LNAPL Thickness Versus Time

DENTON STATION, SRS 2003-00338
LEA COUNTY, NEW MEXICO
NMOCD 1RP-0234
LNAPL THICKNESS vs. TIME
MW-3R

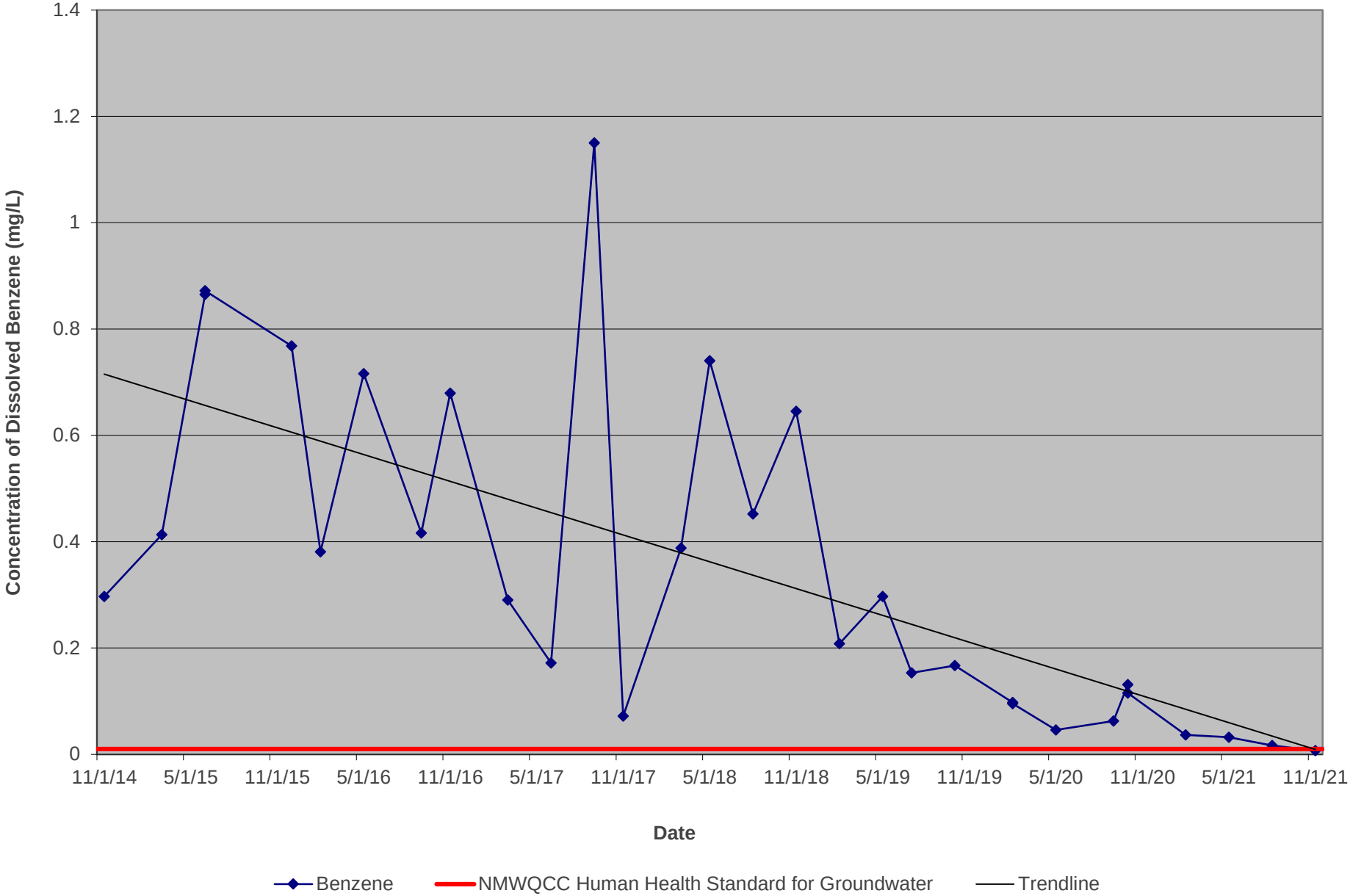


DENTON STATION, SRS 2003-00338
LEA COUNTY, NEW MEXICO
NMOCD 1RP-0234
LNAPL THICKNESS vs. TIME
MW-7

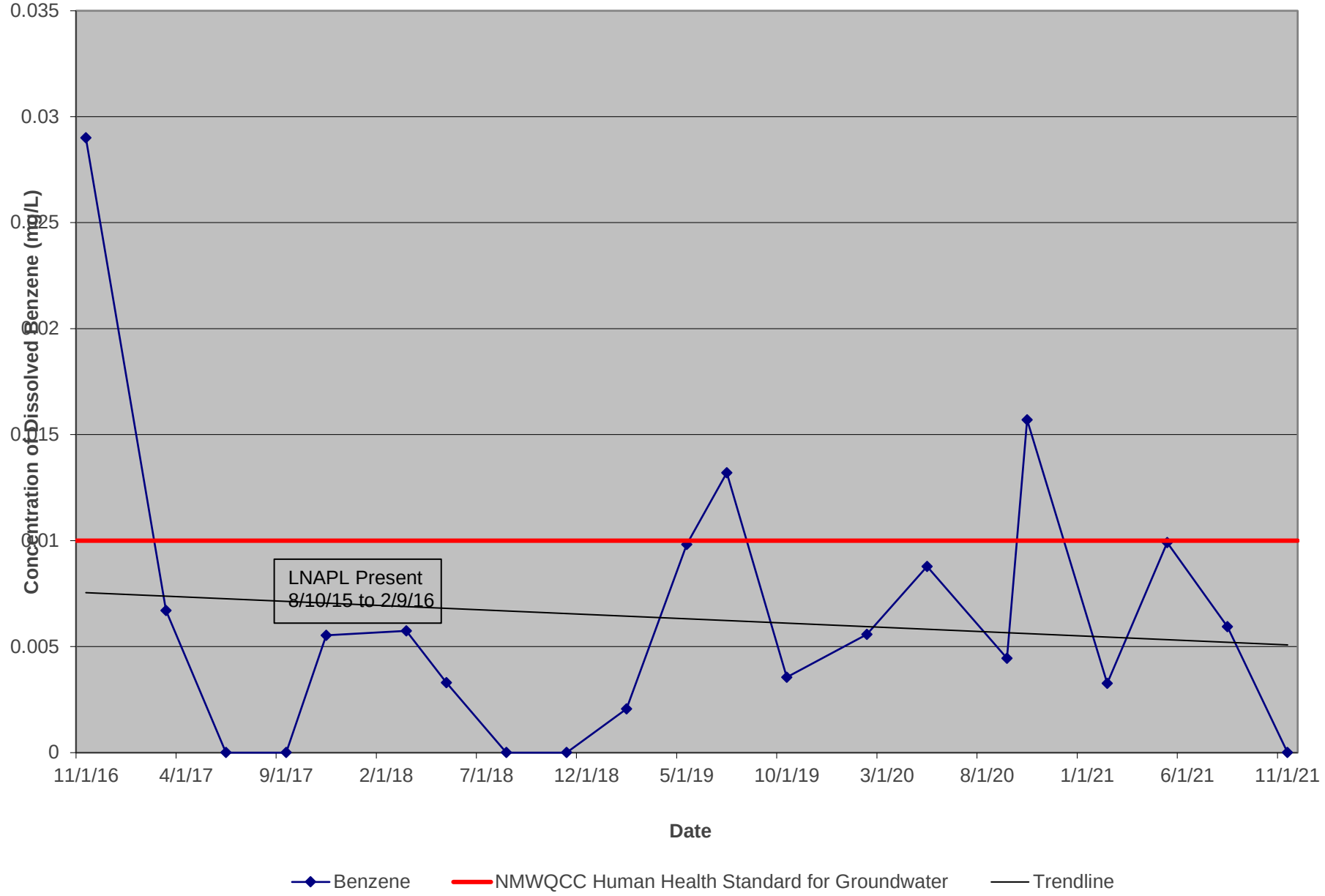


Appendix B
Charts of Dissolved Benzene Concentrations Versus Time

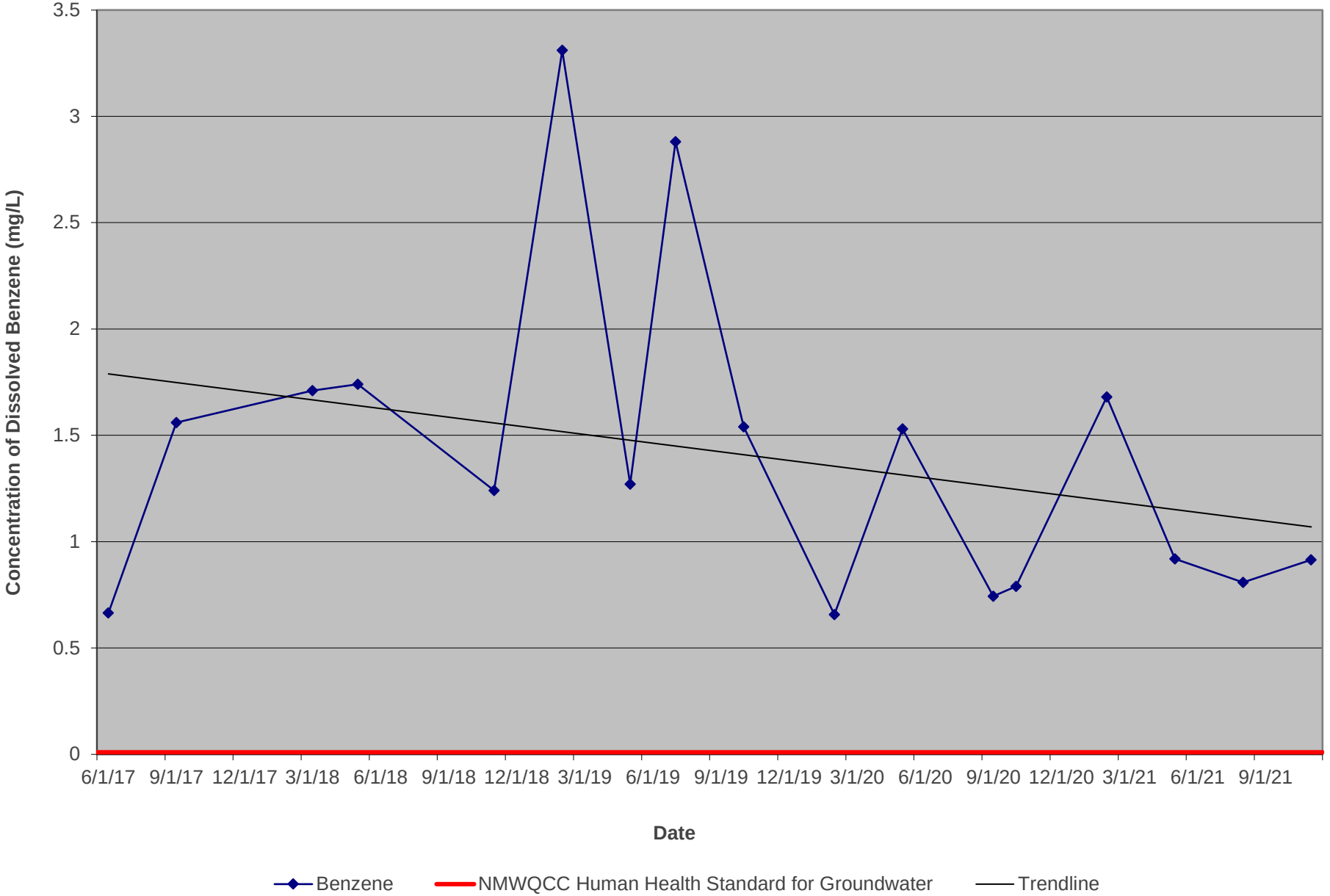
DENTON STATION, SRS #2003-00338
LEA COUNTY, NEW MEXICO
NMOCD 1RP-0234
CONCENTRATION OF DISSOLVED BENZENE vs. TIME
MW-1R



DENTON STATION, SRS #2003-00338
LEA COUNTY, NEW MEXICO
NMOCD 1RP-0234
CONCENTRATION OF DISSOLVED BENZENE vs. TIME
MW-5



DENTON STATION, SRS #2003-00338
LEA COUNTY, NEW MEXICO
NMOCD 1RP-0234
CONCENTRATION OF DISSOLVED BENZENE vs. TIME
MW-17



Attachment C
Certified Laboratory Analytical Reports and Chain-of-Custody Documentation

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

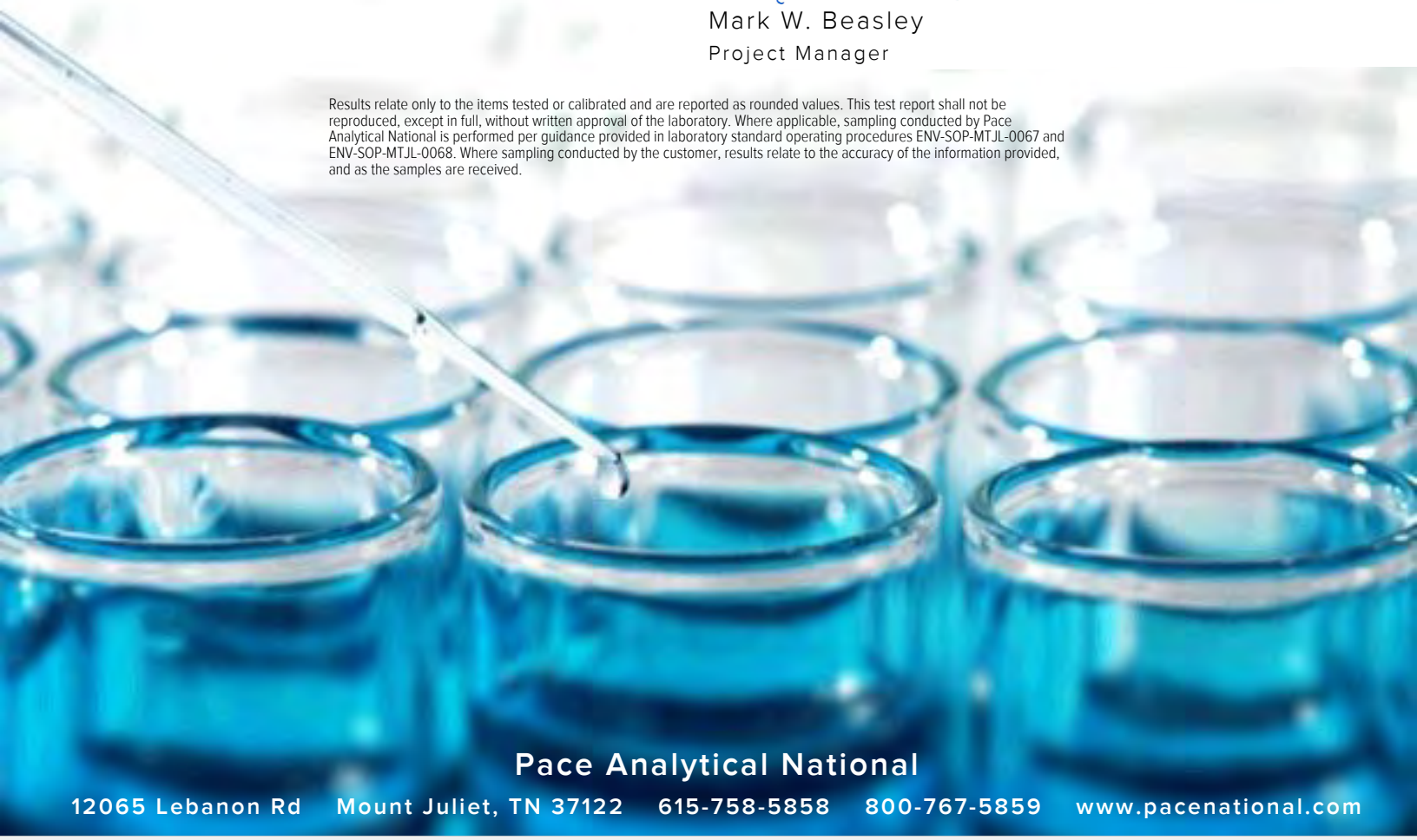
February 19, 2021

Plains All American, LP - GHD

Sample Delivery Group:	L1316776
Samples Received:	02/12/2021
Project Number:	
Description:	Denton Station SRS2003-00338
Site:	SRS 2003-00338
Report To:	Becky Haskell 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Mark W. Beasley
Project Manager



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-19 L1316776-01 GW

Collected by: Zach Comino | Collected date/time: 02/09/21 12:30 | Received date/time: 02/12/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/13/21 21:14	02/13/21 21:14	TPR	Mt. Juliet, TN

MW-12 L1316776-02 GW

Collected by: Zach Comino | Collected date/time: 02/09/21 12:45 | Received date/time: 02/12/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/13/21 21:36	02/13/21 21:36	TPR	Mt. Juliet, TN

MW-20 L1316776-03 GW

Collected by: Zach Comino | Collected date/time: 02/09/21 13:10 | Received date/time: 02/12/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/13/21 21:57	02/13/21 21:57	TPR	Mt. Juliet, TN

MW-4 L1316776-04 GW

Collected by: Zach Comino | Collected date/time: 02/09/21 13:20 | Received date/time: 02/12/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/13/21 22:19	02/13/21 22:19	TPR	Mt. Juliet, TN

MW-2R L1316776-05 GW

Collected by: Zach Comino | Collected date/time: 02/09/21 13:45 | Received date/time: 02/12/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/13/21 22:41	02/13/21 22:41	TPR	Mt. Juliet, TN

MW-1R L1316776-06 GW

Collected by: Zach Comino | Collected date/time: 02/09/21 14:00 | Received date/time: 02/12/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/13/21 23:02	02/13/21 23:02	TPR	Mt. Juliet, TN

MW-6 L1316776-07 GW

Collected by: Zach Comino | Collected date/time: 02/09/21 14:15 | Received date/time: 02/12/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/13/21 23:24	02/13/21 23:24	TPR	Mt. Juliet, TN

MW-5 L1316776-08 GW

Collected by: Zach Comino | Collected date/time: 02/09/21 14:30 | Received date/time: 02/12/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/13/21 23:46	02/13/21 23:46	TPR	Mt. Juliet, TN

MW-17 L1316776-09 GW

			Collected by	Collected date/time	Received date/time	
			Zach Comino	02/09/21 14:45	02/12/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	25	02/14/21 03:44	02/14/21 03:44	TPR	Mt. Juliet, TN

MW-10 L1316776-10 GW

			Collected by	Collected date/time	Received date/time	
			Zach Comino	02/09/21 15:00	02/12/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/14/21 00:07	02/14/21 00:07	TPR	Mt. Juliet, TN

MW-9 L1316776-11 GW

			Collected by	Collected date/time	Received date/time	
			Zach Comino	02/09/21 15:15	02/12/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/14/21 00:29	02/14/21 00:29	TPR	Mt. Juliet, TN

MW-18 L1316776-12 GW

			Collected by	Collected date/time	Received date/time	
			Zach Comino	02/09/21 15:30	02/12/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/14/21 00:51	02/14/21 00:51	TPR	Mt. Juliet, TN

MW-8 L1316776-13 GW

			Collected by	Collected date/time	Received date/time	
			Zach Comino	02/09/21 15:45	02/12/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/14/21 01:12	02/14/21 01:12	TPR	Mt. Juliet, TN

DUP-1 L1316776-14 GW

			Collected by	Collected date/time	Received date/time	
			Zach Comino	02/09/21 00:00	02/12/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/14/21 01:34	02/14/21 01:34	TPR	Mt. Juliet, TN

DUP-2 L1316776-15 GW

			Collected by	Collected date/time	Received date/time	
			Zach Comino	02/09/21 00:00	02/12/21 09:30	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1621054	1	02/14/21 01:56	02/14/21 01:56	TPR	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley
Project Manager

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Mark W. Beasley
Project Manager

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 02/19/2021 14:32
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1316776-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14 and 15
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1621054

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Supporting Data

ONE LAB. NATIONWIDE.

Laboratory Name: Pace Analytical National	LRC Date: 02/19/2021 14:32
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1316776-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14 and 15
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1621054

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 02/19/2021 14:32
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1316776-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14 and 15
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1621054

ER #[1]	Description
	The Exception Report intentionally left blank, there are no exceptions applied to this SDG.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/13/2021 21:14	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/13/2021 21:14	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/13/2021 21:14	WG1621054
Total Xylene	U		0.000510	0.00150	0.00150	1	02/13/2021 21:14	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/13/2021 21:14*	WG1621054

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/13/2021 21:36	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/13/2021 21:36	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/13/2021 21:36	WG1621054
Total Xylene	U		0.000510	0.00150	0.00150	1	02/13/2021 21:36	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/13/2021 21:36*	WG1621054

MW-20
Collected date/time: 02/09/21 13:10
L1316776

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	02/13/2021 21:57	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/13/2021 21:57	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/13/2021 21:57	WG1621054
Total Xylene	U		0.000510	0.00150	0.00150	1	02/13/2021 21:57	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/13/2021 21:57*	WG1621054

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/13/2021 22:19	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/13/2021 22:19	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/13/2021 22:19	WG1621054
Total Xylene	U		0.000510	0.00150	0.00150	1	02/13/2021 22:19	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/13/2021 22:19*	WG1621054

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	02/13/2021 22:41	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/13/2021 22:41	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/13/2021 22:41	WG1621054
Total Xylene	U		0.000510	0.00150	0.00150	1	02/13/2021 22:41	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/13/2021 22:41*	WG1621054

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0363		0.000190	0.000500	0.000500	1	02/13/2021 23:02	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/13/2021 23:02	WG1621054
Ethylbenzene	0.000284	J	0.000160	0.000500	0.000500	1	02/13/2021 23:02	WG1621054
Total Xylene	0.00152		0.000510	0.00150	0.00150	1	02/13/2021 23:02	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/13/2021 23:02*	WG1621054

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/13/2021 23:24	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/13/2021 23:24	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/13/2021 23:24	WG1621054
Total Xylene	U		0.000510	0.00150	0.00150	1	02/13/2021 23:24	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/13/2021 23:24*	WG1621054

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/13/2021 23:46	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/13/2021 23:46	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/13/2021 23:46	WG1621054
Total Xylene	0.00159		0.000510	0.00150	0.00150	1	02/13/2021 23:46	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/13/2021 23:46*	WG1621054

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	1.68		0.00475	0.000500	0.0125	25	02/14/2021 03:44	WG1621054
Toluene	U		0.0103	0.00100	0.0250	25	02/14/2021 03:44	WG1621054
Ethylbenzene	0.0718		0.00400	0.000500	0.0125	25	02/14/2021 03:44	WG1621054
Total Xylene	0.0783		0.0128	0.00150	0.0375	25	02/14/2021 03:44	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/14/2021 03:44*	WG1621054

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/14/2021 00:07	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/14/2021 00:07	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/14/2021 00:07	WG1621054
Total Xylene	U		0.000510	0.00150	0.00150	1	02/14/2021 00:07	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/14/2021 00:07*	WG1621054

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/14/2021 00:29	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/14/2021 00:29	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/14/2021 00:29	WG1621054
Total Xylene	U		0.000510	0.00150	0.00150	1	02/14/2021 00:29	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/14/2021 00:29*	WG1621054

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/14/2021 00:51	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/14/2021 00:51	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/14/2021 00:51	WG1621054
Total Xylene	U		0.000510	0.00150	0.00150	1	02/14/2021 00:51	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*02/14/2021 00:51*	WG1621054

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	02/14/2021 01:12	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/14/2021 01:12	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/14/2021 01:12	WG1621054
Total Xylene	U		0.000510	0.00150	0.00150	1	02/14/2021 01:12	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/14/2021 01:12*	WG1621054

DUP-1
Collected date/time: 02/09/21 00:00
L1316776

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	02/14/2021 01:34	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/14/2021 01:34	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/14/2021 01:34	WG1621054
Total Xylene	U		0.000510	0.00150	0.00150	1	02/14/2021 01:34	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*02/14/2021 01:34*	WG1621054

DUP-2
Collected date/time: 02/09/21 00:00
L1316776

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	02/14/2021 01:56	WG1621054
Toluene	U		0.000412	0.00100	0.00100	1	02/14/2021 01:56	WG1621054
Ethylbenzene	U		0.000160	0.000500	0.000500	1	02/14/2021 01:56	WG1621054
Total Xylene	0.00161		0.000510	0.00150	0.00150	1	02/14/2021 01:56	WG1621054
(S) a,a,a-Trifluorotoluene(PID)	*101*				*79.0-125*		*02/14/2021 01:56*	WG1621054

Method Blank (MB)

(MB) R3623175-3 02/13/21 20:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*103*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3623175-1 02/13/21 19:00

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0495	99.0	77.0-122	
Toluene	0.0500	0.0433	86.6	80.0-121	
Ethylbenzene	0.0500	0.0483	96.6	80.0-123	
Total Xylene	0.150	0.158	105	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*103*	*79.0-125*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN, 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

Pace Analytical National 1313 Point Mallard Parkway SE Suite B Decatur, AL, 35601

Alabama	40160
ANSI National Accreditation Board	L2239

Pace Analytical National 660 Bercut Dr. Ste. C Sacramento, CA, 95811

California	2961	Oregon	CA300002
Minnesota	006-999-465	Washington	C926
North Dakota	R-214		

Pace Analytical National 6000 South Eastern Avenue Ste 9A Las Vegas, NV, 89119

Nevada	NV009412021-1

Pace Analytical National 1606 E. Brazos Street Suite D Victoria, TX, 77901

Texas	T104704328-20-18

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Plains All American, LP - GHD

2135 S. Loop 250 W
Midland, TX 79703

Billing Information:
Camille Bryant
1106 Griffith Drive
Midland, TX 79706

Pres Chk

Analysis / Container / Preservative

Chain of Custody

Pace Analytical® National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

Report to: **Becky Haskell**

Email To: **becky.haskell@ghd.com (see remarks)**

Project Description: **Denton Station**

City/State Collected: Lovington, NM

Phone: **432-250-7917**
Fax:

Client Project #: **Plains SRS #: 2003-00338**

Lab Project #: 11209870

L# L1316776

B023

Collected by (print): Zach Comino

Site/Facility ID #: Denton St

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Immediately Packed on Ice N ___ Y X

Acctnum: **Plains GHD**
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 10ml/Amb-HCL									Remarks	Sample # (lab only)
MW-19	Grab	GW		02/09/2021	1230	3	X										-01
~~[illegible]~~ MW-12	↓	GW		↓	1245	3	X										-02
MW-20	↓	GW		↓	1310	↓	↓										-03
MW-4	↓	GW		↓	1320	↓	↓										-04
MW-2R	↓	GW		↓	1345	↓	↓										-05
MW-1R	↓	GW		↓	1400	↓	↓										-06
MW-6	↓	GW		↓	1415	↓	↓										-07
MW-5	↓	GW		↓	1430	↓	↓										-08
MW-17	↓	GW		↓	1445	↓	↓										-09
MW-10	↓	GW		↓	1500	↓	↓										-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other________

Remarks:
Email final report to becky.haskell@ghd.com, cjbryan@paalp.com, algroves@paalp.com and maochoa@paalp.com

pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS __ FedEx __ Courier __ ______

Tracking # 1972 0813 1804

Sample Receipt Checklist
COC Seal Present/Intact: ✓NP _Y _N
COC Signed/Accurate: ✓Y _N
Bottles arrive intact: ✓Y _N
Correct bottles used: ✓Y _N
Sufficient volume sent: ✓Y _N
If Applicable
VOA Zero Headspace: ✓Y _N
Preservation Correct/Checked: _Y _N

Relinquished by : (Signature) [signature]	Date: 02092021	Time: 1600	Received by: (Signature)	Trip Blank Received: Yes / (No) HCL / MeoH TBR
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: ~~[illegible]~~ °C 3.4±0=3.4 Bottles Received: 45
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 2/12/21 Time: 9:30

If preservation required by Login: Date/Time

Hold:

Condition: NCF / (OK)

Plains All American, LP - GHD

2135 S. Loop 250 W
Midland, TX 79703

Billing Information:
Camille Bryant
1106 Griffith Drive
Midland, TX 79706

Pres Chk

Report to: Becky Haskell

Email To: becky.haskell@ghd.com (see remarks)

Project Description: Denton Station

City/State Collected: Lovington, NM

Phone: 432-250-7917
Fax:

Client Project # Plains SRS #: 2003-00338

Lab Project # 11209870

Collected by (print): Zach Canino

Site/Facility ID # Denton St

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 10m/Amb-HCL	Remarks	Sample # (lab only)
MW-9	Grab	GW		02/09/2021	1515	3	X		-11
MW-18		GW			1530				-12
MW-8		GW			1545				-13
Dup-1		GW		02/09/2021					-14
Dup-2		GW		02/09/2021					-15
		GW							
		GW							
		GW							
		GW							
		GW							

Analysis / Container / Preservative

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National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L # L1516716

Table #

Acctnum: Plains GHD

Template:

Prelogin:

TSR:

PB:

Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
Email final report to becky.haskell@ghd.com, cjbryan@paalp.com, algroves@paalp.com and maochoa@paalp.com

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	02092021	1600		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.7 °C Bottles Received: 45
				3.4 ± 0.3 3.4
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: Time:
				2/12/21 38

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Pace Analytical®

ANALYTICAL REPORT

May 26, 2021

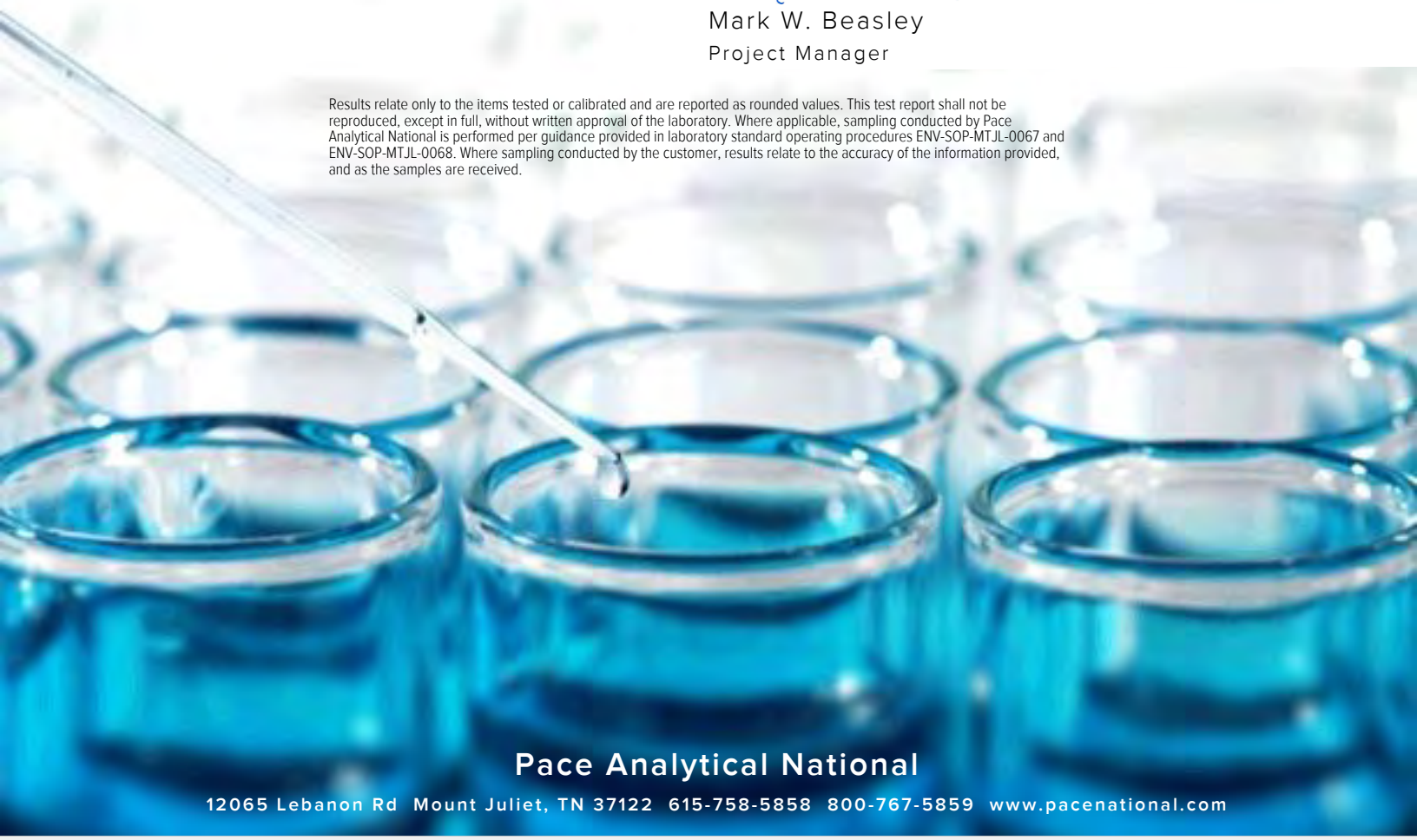
Plains All American, LP - GHD

Sample Delivery Group:	L1353103
Samples Received:	05/14/2021
Project Number:	11209870/02
Description:	Denton Station SRS2003-00338
Site:	SRS 2003-00338
Report To:	Becky Haskell 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Mark W. Beasley
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-18 L1353103-01 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 09:30 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 03:20	05/18/21 03:20	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1677274	1	05/25/21 17:04	05/25/21 17:04	ACG	Mt. Juliet, TN

MW-10 L1353103-02 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 10:00 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 03:42	05/18/21 03:42	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1677274	1	05/25/21 17:26	05/25/21 17:26	ACG	Mt. Juliet, TN

MW-5 L1353103-03 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 10:30 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 04:04	05/18/21 04:04	ACG	Mt. Juliet, TN

MW-6 L1353103-04 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 11:00 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 04:25	05/18/21 04:25	ACG	Mt. Juliet, TN

MW-4 L1353103-05 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 11:30 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 04:47	05/18/21 04:47	ACG	Mt. Juliet, TN

MW-2R L1353103-06 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 12:00 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 05:09	05/18/21 05:09	ACG	Mt. Juliet, TN

MW-19 L1353103-07 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 12:30 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 05:31	05/18/21 05:31	ACG	Mt. Juliet, TN

MW-12 L1353103-08 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 13:00 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 05:53	05/18/21 05:53	ACG	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

MW-20 L1353103-09 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 13:15 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 06:15	05/18/21 06:15	ACG	Mt. Juliet, TN

MW-1R L1353103-10 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 13:45 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 06:37	05/18/21 06:37	ACG	Mt. Juliet, TN

MW-17 L1353103-11 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 14:15 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	25	05/18/21 09:53	05/18/21 09:53	ACG	Mt. Juliet, TN

DUP-1 L1353103-12 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 00:00 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 06:59	05/18/21 06:59	ACG	Mt. Juliet, TN

DUP-2 L1353103-13 GW

Collected by: Zach Comino | Collected date/time: 05/13/21 00:00 | Received date/time: 05/14/21 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1672341	1	05/18/21 07:21	05/18/21 07:21	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1677274	20	05/25/21 19:14	05/25/21 19:14	ACG	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Mark W. Beasley
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Mark W. Beasley

Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 05/26/2021 16:08
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1353103-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 and 13
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1672341 and WG1677274

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 05/26/2021 16:08
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1353103-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 and 13
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1672341 and WG1677274

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 05/26/2021 16:08
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1353103-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12 and 13
Reviewer Name: Mark W. Beasley	Prep Batch Number(s): WG1672341 and WG1677274

ER #[1]	Description
	The Exception Report intentionally left blank, there are no exceptions applied to this SDG.

1. Items identified by the letter “R” must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter “S” should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if “NR” or “No” is checked).

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	05/25/2021 17:04	WG1677274
Toluene	U		0.000412	0.00100	0.00100	1	05/18/2021 03:20	WG1672341
Ethylbenzene	0.000381	J	0.000160	0.000500	0.000500	1	05/18/2021 03:20	WG1672341
Total Xylene	0.00128	J	0.000510	0.00150	0.00150	1	05/18/2021 03:20	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*05/18/2021 03:20*	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*05/25/2021 17:04*	WG1677274

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	05/25/2021 17:26	WG1677274
Toluene	U		0.000412	0.00100	0.00100	1	05/18/2021 03:42	WG1672341
Ethylbenzene	U		0.000160	0.000500	0.000500	1	05/18/2021 03:42	WG1672341
Total Xylene	U		0.000510	0.00150	0.00150	1	05/18/2021 03:42	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*108*				*79.0-125*		*05/18/2021 03:42*	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*05/25/2021 17:26*	WG1677274

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0219		0.000190	0.000500	0.000500	1	05/18/2021 04:04	WG1672341
Toluene	0.00205		0.000412	0.00100	0.00100	1	05/18/2021 04:04	WG1672341
Ethylbenzene	0.000301	J	0.000160	0.000500	0.000500	1	05/18/2021 04:04	WG1672341
Total Xylene	0.00284		0.000510	0.00150	0.00150	1	05/18/2021 04:04	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*05/18/2021 04:04*	WG1672341

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000255	J	0.000190	0.000500	0.000500	1	05/18/2021 04:25	WG1672341
Toluene	U		0.000412	0.00100	0.00100	1	05/18/2021 04:25	WG1672341
Ethylbenzene	U		0.000160	0.000500	0.000500	1	05/18/2021 04:25	WG1672341
Total Xylene	U		0.000510	0.00150	0.00150	1	05/18/2021 04:25	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*106*				*79.0-125*		*05/18/2021 04:25*	WG1672341

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000411	J	0.000190	0.000500	0.000500	1	05/18/2021 04:47	WG1672341
Toluene	U		0.000412	0.00100	0.00100	1	05/18/2021 04:47	WG1672341
Ethylbenzene	0.000239	J	0.000160	0.000500	0.000500	1	05/18/2021 04:47	WG1672341
Total Xylene	U		0.000510	0.00150	0.00150	1	05/18/2021 04:47	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*05/18/2021 04:47*	WG1672341

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000191	J	0.000190	0.000500	0.000500	1	05/18/2021 05:09	WG1672341
Toluene	U		0.000412	0.00100	0.00100	1	05/18/2021 05:09	WG1672341
Ethylbenzene	U		0.000160	0.000500	0.000500	1	05/18/2021 05:09	WG1672341
Total Xylene	U		0.000510	0.00150	0.00150	1	05/18/2021 05:09	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*05/18/2021 05:09*	WG1672341

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	05/18/2021 05:31	WG1672341
Toluene	U		0.000412	0.00100	0.00100	1	05/18/2021 05:31	WG1672341
Ethylbenzene	U		0.000160	0.000500	0.000500	1	05/18/2021 05:31	WG1672341
Total Xylene	U		0.000510	0.00150	0.00150	1	05/18/2021 05:31	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*108*				*79.0-125*		*05/18/2021 05:31*	WG1672341

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	05/18/2021 05:53	WG1672341
Toluene	U		0.000412	0.00100	0.00100	1	05/18/2021 05:53	WG1672341
Ethylbenzene	U		0.000160	0.000500	0.000500	1	05/18/2021 05:53	WG1672341
Total Xylene	U		0.000510	0.00150	0.00150	1	05/18/2021 05:53	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*05/18/2021 05:53*	WG1672341

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	05/18/2021 06:15	WG1672341
Toluene	U		0.000412	0.00100	0.00100	1	05/18/2021 06:15	WG1672341
Ethylbenzene	U		0.000160	0.000500	0.000500	1	05/18/2021 06:15	WG1672341
Total Xylene	U		0.000510	0.00150	0.00150	1	05/18/2021 06:15	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*108*				*79.0-125*		*05/18/2021 06:15*	WG1672341

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0319		0.000190	0.000500	0.000500	1	05/18/2021 06:37	WG1672341
Toluene	U		0.000412	0.00100	0.00100	1	05/18/2021 06:37	WG1672341
Ethylbenzene	0.000419	J	0.000160	0.000500	0.000500	1	05/18/2021 06:37	WG1672341
Total Xylene	0.00273		0.000510	0.00150	0.00150	1	05/18/2021 06:37	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*108*				*79.0-125*		*05/18/2021 06:37*	WG1672341

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.919		0.00475	0.000500	0.0125	25	05/18/2021 09:53	WG1672341
Toluene	U		0.0103	0.00100	0.0250	25	05/18/2021 09:53	WG1672341
Ethylbenzene	0.0513		0.00400	0.000500	0.0125	25	05/18/2021 09:53	WG1672341
Total Xylene	0.0535		0.0128	0.00150	0.0375	25	05/18/2021 09:53	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*05/18/2021 09:53*	WG1672341

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

DUP-1
Collected date/time: 05/13/21 00:00
L1353103

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	05/18/2021 06:59	WG1672341
Toluene	U		0.000412	0.00100	0.00100	1	05/18/2021 06:59	WG1672341
Ethylbenzene	U		0.000160	0.000500	0.000500	1	05/18/2021 06:59	WG1672341
Total Xylene	U		0.000510	0.00150	0.00150	1	05/18/2021 06:59	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*108*				*79.0-125*		*05/18/2021 06:59*	WG1672341

DUP-2
Collected date/time: 05/13/21 00:00
L1353103

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.903		0.00380	0.000500	0.0100	20	05/25/2021 19:14	WG1677274
Toluene	0.00166		0.000412	0.00100	0.00100	1	05/18/2021 07:21	WG1672341
Ethylbenzene	0.0503		0.000160	0.000500	0.000500	1	05/18/2021 07:21	WG1672341
Total Xylene	0.0511		0.000510	0.00150	0.00150	1	05/18/2021 07:21	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*05/18/2021 07:21*	WG1672341
(S) a,a,a-Trifluorotoluene(PID)	*102*				*79.0-125*		*05/25/2021 19:14*	WG1677274

Method Blank (MB)

(MB) R3658999-3 05/18/21 01:30

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*107*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3658999-1 05/18/21 00:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0558	112	77.0-122	
Toluene	0.0500	0.0545	109	80.0-121	
Ethylbenzene	0.0500	0.0569	114	80.0-123	
Total Xylene	0.150	0.158	105	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*107*	*79.0-125*	

Method Blank (MB)

(MB) R3659527-3 05/25/21 09:57

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
(S) a,a,a-Trifluorotoluene(PID)	*102*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3659527-1 05/25/21 08:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0543	109	77.0-122	
(S) a,a,a-Trifluorotoluene(PID)			*103*	*79.0-125*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Report to: **Becky Haskell**

Email To: **becky.haskell@ghd.com;glenn.quinney@ghd.co**

Project Description: **Denton Station SRS2003-00338**

City/State Collected: Lovington, NM

Please Circle: PT MT CT ET

Phone: **432-250-7917**

Client Project # **11209870/02**

Lab Project # **PLAINSGHD-11209870**

SDG # H129

Table # U353103

Collected by (print): Zach Comino

Site/Facility ID # **SRS 2003-00338**

P.O. #

Acctnum: **PLAINSGHD**

Collected by (signature):

Immediately
Packed on Ice N___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Template: **T167393**

Prelogin: **P842770**

PM: **134 - Mark W. Beasley**

PB:

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-18	Grab	GW		05132021	0930	3	X		-01
MW-10		GW			1000				-02
MW-5		GW			1030				-03
MW-6		GW			1100				-04
MW-4		GW			1130				-05
MW-21R		GW			1200				-06
MW-19		GW			1230				-07
MW-[redacted]12		GW		1300	[redacted]				-08
MW-[redacted]20		GW		1315	[redacted]				-09
MW-1R		GW			1345	4	X		-10

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	05132021	1430		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.2 °C Bottles Received: 39
				2.9-1:2.Y
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/14/21 Time: 9:30
			Jordan Baxter	

If preservation required by Login: Date/Time

Hold:

Condition: NCF OK

Company Name/Address:
Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Report to: **Becky Haskell**

Email To: **becky.haskell@ghd.com;glenn.quinney@ghd.co**

Project Description: **Denton Station SRS2003-00338**

City/State Collected: Lovington, NM

Please Circle: PT MT CT ET

Phone: **432-250-7917**

Client Project # **11209870/02**

Lab Project # **PLAINSGHD-11209870**

SDG # U357103

Table #

Collected by (print): Zach Lovino

Site/Facility ID # **SRS 2003-00338**

P.O. #

Acctnum: **PLAINSGHD**

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Template: **T167393**

Prelogin: **P842770**

PM: **134 - Mark W. Beasley**

PB:

Shipped Via: **FedEX Ground**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-17	Grab	GW		05/13/2021	1415	3	X		-11
Dup-1	↓	GW		↓	-	↓	↓		-12
Dup-2	↓	GW		↓	-	↓	↓		-13
		GW							
		GW							
		GW							
		GW							
		GW							

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		Y N
Bottles arrive intact:		Y N
Correct bottles used:		Y N
Sufficient volume sent:		Y N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	05/13/2021	1430		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.9 / 1.2 °C Bottles Received: 39
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 5/14/21 Time: 9:30
			Jordan Supta	Hold: Condition: NCF / OK

Pace Analytical®

ANALYTICAL REPORT

August 27, 2021

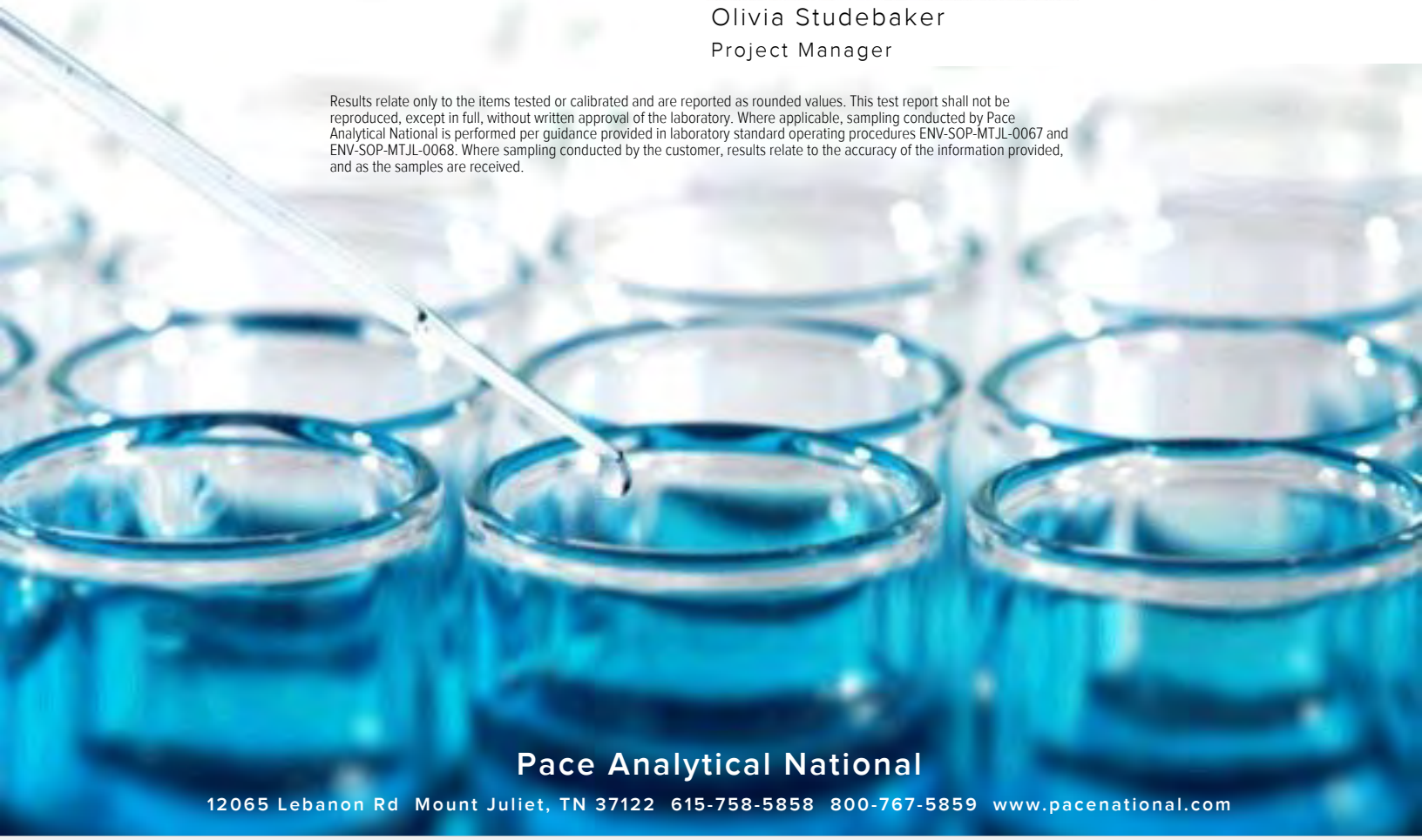
Plains All American, LP - GHD

Sample Delivery Group:	L1391195
Samples Received:	08/17/2021
Project Number:	11209870/02
Description:	Denton Station SRS2003-00338
Site:	SRS 2003-00338
Report To:	Becky Haskell 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Olivia Studebaker
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-2R L1391195-01 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 09:30 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1724955	1	08/18/21 07:45	08/18/21 07:45	JHH	Mt. Juliet, TN

MW-4 L1391195-02 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 09:45 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1729853	1	08/26/21 18:18	08/26/21 18:18	BMB	Mt. Juliet, TN

MW-6 L1391195-03 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 10:00 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1729853	1	08/26/21 18:42	08/26/21 18:42	BMB	Mt. Juliet, TN

MW-9 L1391195-04 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 10:15 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1725105	1	08/18/21 15:36	08/18/21 15:36	JAH	Mt. Juliet, TN

MW-10 L1391195-05 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 10:30 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1725105	1	08/18/21 16:25	08/18/21 16:25	JAH	Mt. Juliet, TN

MW-12 L1391195-06 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 10:45 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1725105	1	08/18/21 16:47	08/18/21 16:47	JAH	Mt. Juliet, TN

MW-18 L1391195-07 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 11:00 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1725105	1	08/18/21 17:08	08/18/21 17:08	JAH	Mt. Juliet, TN

MW-19 L1391195-08 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 11:15 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1725105	1	08/18/21 18:13	08/18/21 18:13	JAH	Mt. Juliet, TN

SAMPLE SUMMARY

MW-20 L1391195-09 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 11:30 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1725105	1	08/18/21 18:34	08/18/21 18:34	JAH	Mt. Juliet, TN

MW-5 L1391195-10 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 11:45 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1725105	1	08/18/21 18:56	08/18/21 18:56	JAH	Mt. Juliet, TN

MW-1R L1391195-11 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 12:00 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1725105	1	08/18/21 19:17	08/18/21 19:17	JAH	Mt. Juliet, TN

MW-17 L1391195-12 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 12:15 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1725105	25	08/18/21 19:39	08/18/21 19:39	JAH	Mt. Juliet, TN

DUP-1 L1391195-13 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 00:00 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1729853	1	08/26/21 19:05	08/26/21 19:05	BMB	Mt. Juliet, TN

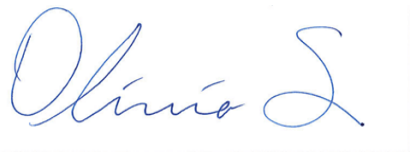
DUP-2 L1391195-14 GW

Collected by: David Fletcher | Collected date/time: 08/12/21 00:00 | Received date/time: 08/17/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1725105	1	08/18/21 20:22	08/18/21 20:22	JAH	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Olivia Studebaker
Project Manager

Revised May 2010

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Olivia Studebaker
Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 08/27/2021 12:32
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1391195-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14
Reviewer Name: Olivia Studebaker	Prep Batch Number(s): WG1725105, WG1724955 and WG1729853

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 08/27/2021 12:32
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1391195-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14
Reviewer Name: Olivia Studebaker	Prep Batch Number(s): WG1725105, WG1724955 and WG1729853

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
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4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 08/27/2021 12:32
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1391195-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13 and 14
Reviewer Name: Olivia Studebaker	Prep Batch Number(s): WG1725105, WG1724955 and WG1729853

ER #[1]	Description
	The Exception Report intentionally left blank, there are no exceptions applied to this SDG.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2021 07:45	WG1724955
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2021 07:45	WG1724955
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2021 07:45	WG1724955
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2021 07:45	WG1724955
(S) a,a,a-Trifluorotoluene(PID)	*106*				*79.0-125*		*08/18/2021 07:45*	WG1724955

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000392	J	0.000190	0.000500	0.000500	1	08/26/2021 18:18	WG1729853
Toluene	U		0.000412	0.00100	0.00100	1	08/26/2021 18:18	WG1729853
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/26/2021 18:18	WG1729853
Total Xylene	U		0.000510	0.00150	0.00150	1	08/26/2021 18:18	WG1729853
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*08/26/2021 18:18*	WG1729853

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000326	J	0.000190	0.000500	0.000500	1	08/26/2021 18:42	WG1729853
Toluene	U		0.000412	0.00100	0.00100	1	08/26/2021 18:42	WG1729853
Ethylbenzene	0.000181	J	0.000160	0.000500	0.000500	1	08/26/2021 18:42	WG1729853
Total Xylene	U		0.000510	0.00150	0.00150	1	08/26/2021 18:42	WG1729853
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*08/26/2021 18:42*	WG1729853

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2021 15:36	WG1725105
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2021 15:36	WG1725105
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2021 15:36	WG1725105
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2021 15:36	WG1725105
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*08/18/2021 15:36*	WG1725105

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2021 16:25	WG1725105
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2021 16:25	WG1725105
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2021 16:25	WG1725105
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2021 16:25	WG1725105
(S) a,a,a-Trifluorotoluene(PID)	*106*				*79.0-125*		*08/18/2021 16:25*	WG1725105

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2021 16:47	WG1725105
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2021 16:47	WG1725105
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2021 16:47	WG1725105
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2021 16:47	WG1725105
(S) a,a,a-Trifluorotoluene(PID)	*106*				*79.0-125*		*08/18/2021 16:47*	WG1725105

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2021 17:08	WG1725105
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2021 17:08	WG1725105
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2021 17:08	WG1725105
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2021 17:08	WG1725105
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*08/18/2021 17:08*	WG1725105

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2021 18:13	WG1725105
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2021 18:13	WG1725105
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2021 18:13	WG1725105
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2021 18:13	WG1725105
(S) a,a,a-Trifluorotoluene(PID)	*106*				*79.0-125*		*08/18/2021 18:13*	WG1725105

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2021 18:34	WG1725105
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2021 18:34	WG1725105
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2021 18:34	WG1725105
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2021 18:34	WG1725105
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*08/18/2021 18:34*	WG1725105

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2021 18:56	WG1725105
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2021 18:56	WG1725105
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2021 18:56	WG1725105
Total Xylene	0.000674	J	0.000510	0.00150	0.00150	1	08/18/2021 18:56	WG1725105
(S) a,a,a-Trifluorotoluene(PID)	*105*				*79.0-125*		*08/18/2021 18:56*	WG1725105

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.0167		0.000190	0.000500	0.000500	1	08/18/2021 19:17	WG1725105
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2021 19:17	WG1725105
Ethylbenzene	0.000250	B J	0.000160	0.000500	0.000500	1	08/18/2021 19:17	WG1725105
Total Xylene	0.00248		0.000510	0.00150	0.00150	1	08/18/2021 19:17	WG1725105
(S) a,a,a-Trifluorotoluene(PID)	*106*				*79.0-125*		*08/18/2021 19:17*	WG1725105

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.808		0.00475	0.000500	0.0125	25	08/18/2021 19:39	WG1725105
Toluene	U		0.0103	0.00100	0.0250	25	08/18/2021 19:39	WG1725105
Ethylbenzene	0.0225	B	0.00400	0.000500	0.0125	25	08/18/2021 19:39	WG1725105
Total Xylene	0.0171	J	0.0128	0.00150	0.0375	25	08/18/2021 19:39	WG1725105
(S) a,a,a-Trifluorotoluene(PID)	*106*				*79.0-125*		*08/18/2021 19:39*	WG1725105

DUP-1
Collected date/time: 08/12/21 00:00
L1391195

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	0.00594		0.000190	0.000500	0.000500	1	08/26/2021 19:05	WG1729853
Toluene	U		0.000412	0.00100	0.00100	1	08/26/2021 19:05	WG1729853
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/26/2021 19:05	WG1729853
Total Xylene	0.00322		0.000510	0.00150	0.00150	1	08/26/2021 19:05	WG1729853
(S) a,a,a-Trifluorotoluene(PID)	*103*				*79.0-125*		*08/26/2021 19:05*	WG1729853

1 Cp
2 Tc
3 Ss
4 Cn
5 Tr
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

DUP-2
Collected date/time: 08/12/21 00:00
L1391195

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result	Qualifier	SDL	Unadj. MQL	MQL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l	mg/l		date / time	
Benzene	U		0.000190	0.000500	0.000500	1	08/18/2021 20:22	WG1725105
Toluene	U		0.000412	0.00100	0.00100	1	08/18/2021 20:22	WG1725105
Ethylbenzene	U		0.000160	0.000500	0.000500	1	08/18/2021 20:22	WG1725105
Total Xylene	U		0.000510	0.00150	0.00150	1	08/18/2021 20:22	WG1725105
(S) a,a,a-Trifluorotoluene(PID)	*107*				*79.0-125*		*08/18/2021 20:22*	WG1725105

Method Blank (MB)

(MB) R3696871-2 08/17/21 23:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*106*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3696871-1 08/17/21 22:53

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0506	101	77.0-122	
Toluene	0.0500	0.0510	102	80.0-121	
Ethylbenzene	0.0500	0.0514	103	80.0-123	
Total Xylene	0.150	0.141	94.0	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*106*	*79.0-125*	

Method Blank (MB)

(MB) R3696590-2 08/18/21 15:14

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	0.000180	J	0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*107*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3696590-1 08/18/21 09:52

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0508	102	77.0-122	
Toluene	0.0500	0.0517	103	80.0-121	
Ethylbenzene	0.0500	0.0522	104	80.0-123	
Total Xylene	0.150	0.145	96.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*102*	*79.0-125*	

Method Blank (MB)

(MB) R3697049-3 08/26/21 16:31

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	U		0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*105*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3697049-1 08/26/21 15:20

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0536	107	77.0-122	
Toluene	0.0500	0.0541	108	80.0-121	
Ethylbenzene	0.0500	0.0539	108	80.0-123	
Total Xylene	0.150	0.163	109	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*101*	*79.0-125*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Company Name/Address:
Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Report to: Becky Haskell

Email To: becky.haskell@ghd.com;glenn.quinney@ghd.co

Project Description: Denton Station SRS2003-00338

City/State Collected:

Please Circle: PT MT CT ET

Phone: 432-250-7917

Client Project # 11209870/02

Lab Project # PLAINSGHD-11209870

SDG # L1391145

Table #

Collected by (print): David Fletcher

Site/Facility ID # SRS 2003-00338

P.O. #

Acctnum: PLAINSGHD

Template: T167393

Prelogin: P863983

PM: 823 - Olivia Studebaker

PB:

Collected by (signature):

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40ml Amb-HCl	Remarks	Sample # (lab only)
MW-2R	GRAB	GW	—	8/12/21	930	3	✓		-01
MW-4		GW			945				02
MW-6		GW			1000				03
MW-9		GW			1015				04
MW-10		GW			1030				05
MW-12		GW			1045				06
MW-18		GW			1100				07
MW-19		GW			1115				08
MW-20		GW			1130				09
MW25		GW			1145	✓	✓		10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Sample Receipt Checklist

COC Seal Present/Intact:	NP	Y N
COC Signed/Accurate:		✓ N
Bottles arrive intact:		✓ N
Correct bottles used:		✓ N
Sufficient volume sent:		✓ N
If Applicable		
VOA Zero Headspace:		Y N
Preservation Correct/Checked:		Y N
RAD Screen <0.5 mR/hr:		✓ N

Samples returned via: __ UPS __ FedEx __ Courier _____

Tracking #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	8-16-21	1830			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.2 °C 1.2	Bottles Received: 42
	8-16-21	16:30			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/17/21	Time: 0800

Hold: | Conditions NCF / OK

Company Name/Address:
Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Report to: **Becky Haskell**

Email To: **becky.haskell@ghd.com;glenn.quinney@ghd.co**

Project Description: **Denton Station SRS2003-00338**

City/State Collected:

Please Circle: PT MT CT ET

Phone: **432-250-7917**

Client Project # **11209870/02**

Lab Project # **PLAINSGHD-11209870**

SDG # L1391195

Table #

Collected by (print): DAVID Fletcher

Collected by (signature): David Fletcher

Site/Facility ID # **SRS 2003-00338**

P.O. #

Quote #

Acctnum: **PLAINSGHD**

Template: **T167393**

Prelogin: **P863983**

PM: **823 - Olivia Studebaker**

PB:

Shipped Via: **FedEX Ground**

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Immediately Packed on Ice N ___ Y ✓

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-1R	GRAB	GW	—	8-12-21	1200	3	✓		-11
MW-17	↓	GW	↓	↓	1215	↓	↓		12
DUP-1	↓	GW	↓	↓		↓	↓		13
DUP-2	↓	GW	↓	↓		↓	↓		14
		GW							
		GW							
		GW							
		GW							

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
David Fletcher	8-16-21	8:30			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 0.6 +0.6 °C 1.2 1.2 Bottles Received: 42	
	8/16/21	16:30			
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 8/17/21 Time: 0800	Hold: Condition: NCF / OK

Pace Analytical®

ANALYTICAL REPORT

November 26, 2021

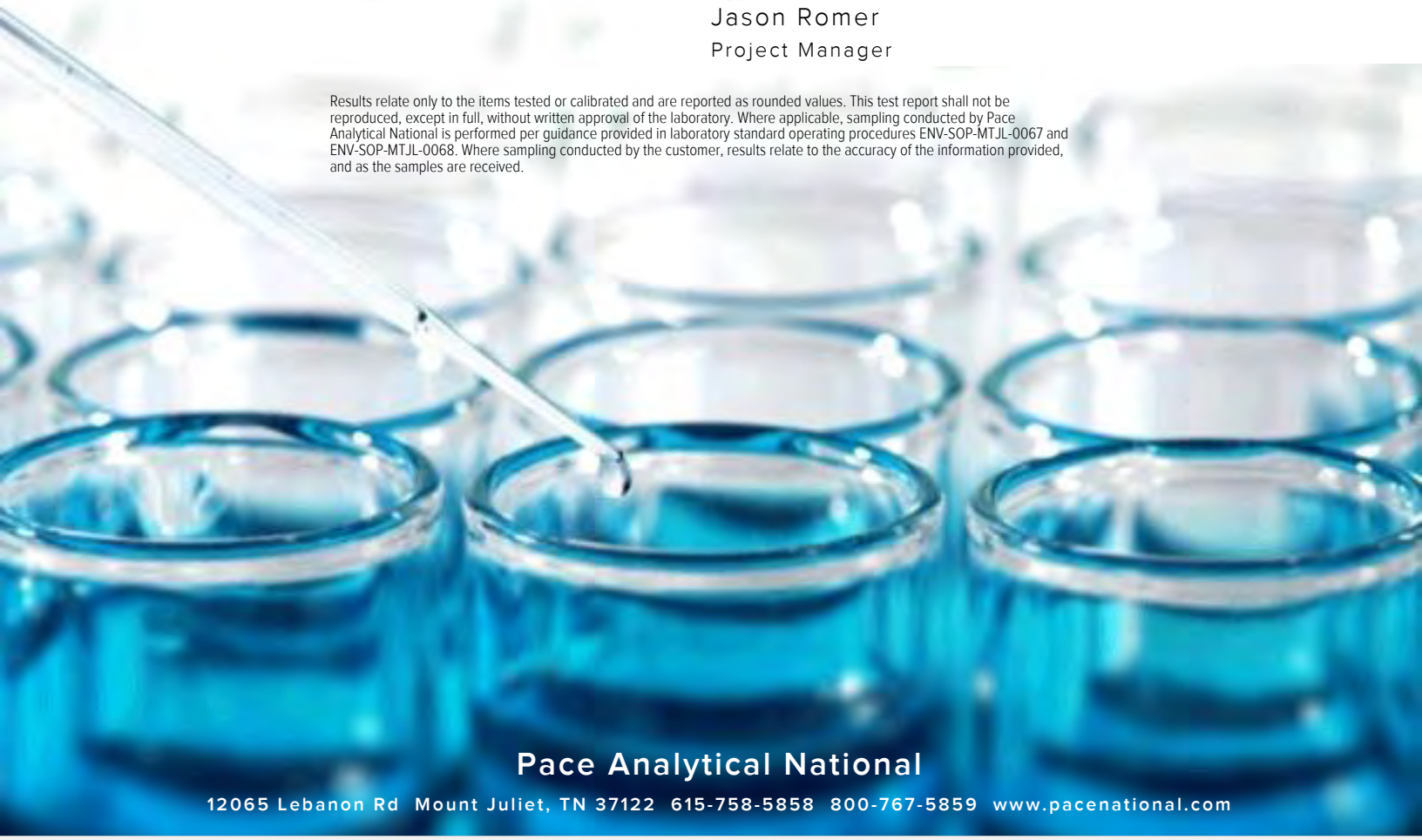
Plains All American, LP - GHD

Sample Delivery Group:	L1430066
Samples Received:	11/11/2021
Project Number:	11209870/02
Description:	Denton Station SRS2003-00338
Site:	SRS 2003-00338
Report To:	Becky Haskell 2135 S Loop 250 W Midland, TX 79703

Entire Report Reviewed By:

Jason Romer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National
12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

TABLE OF CONTENTS

MW-2R L1430066-01 GW

Collected by: David Fletcher | Collected date/time: 11/08/21 14:15 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773352	1	11/13/21 15:27	11/13/21 15:27	GLN	Mt. Juliet, TN

MW-5 L1430066-02 GW

Collected by: David Fletcher | Collected date/time: 11/08/21 14:40 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773352	1	11/13/21 15:49	11/13/21 15:49	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1774003	1	11/15/21 08:25	11/15/21 15:16	ADF	Mt. Juliet, TN

MW-10 L1430066-03 GW

Collected by: David Fletcher | Collected date/time: 11/08/21 15:00 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773352	1	11/13/21 16:11	11/13/21 16:11	JAH	Mt. Juliet, TN

MW-12 L1430066-04 GW

Collected by: David Fletcher | Collected date/time: 11/08/21 13:30 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773352	1	11/13/21 16:32	11/13/21 16:32	JAH	Mt. Juliet, TN

MW-18 L1430066-05 GW

Collected by: David Fletcher | Collected date/time: 11/08/21 15:30 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773352	1	11/13/21 16:54	11/13/21 16:54	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1774003	1	11/15/21 08:25	11/15/21 15:33	LEA	Mt. Juliet, TN

MW-19 L1430066-06 GW

Collected by: David Fletcher | Collected date/time: 11/08/21 15:00 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773352	1	11/13/21 17:16	11/13/21 17:16	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1774003	1	11/15/21 08:25	11/15/21 15:50	LEA	Mt. Juliet, TN

MW-20 L1430066-07 GW

Collected by: David Fletcher | Collected date/time: 11/08/21 14:00 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773532	1	11/13/21 20:09	11/13/21 20:09	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1774003	1	11/15/21 08:25	11/15/21 16:08	LEA	Mt. Juliet, TN

MW-6 L1430066-08 GW

Collected by: David Fletcher | Collected date/time: 11/09/21 10:40 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773532	1	11/13/21 20:31	11/13/21 20:31	JAH	Mt. Juliet, TN

MW-4 L1430066-09 GW

Collected by: David Fletcher | Collected date/time: 11/09/21 11:15 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773532	1	11/13/21 20:52	11/13/21 20:52	JAH	Mt. Juliet, TN

MW-1R L1430066-10 GW

Collected by: David Fletcher | Collected date/time: 11/09/21 11:45 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773532	1	11/13/21 21:14	11/13/21 21:14	JAH	Mt. Juliet, TN

MW-17 L1430066-11 GW

Collected by: David Fletcher | Collected date/time: 11/09/21 12:30 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773532	25	11/14/21 03:14	11/14/21 03:14	JAH	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG1774117	1	11/15/21 08:23	11/15/21 13:07	LEA	Mt. Juliet, TN

DUP L1430066-12 GW

Collected by: David Fletcher | Collected date/time: 11/09/21 00:00 | Received date/time: 11/11/21 08:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8021B	WG1773532	1	11/13/21 21:36	11/13/21 21:36	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8021B	WG1778491	20	11/22/21 13:36	11/22/21 13:36	ACG	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jason Romer
Project Manager

Laboratory Data Package Cover Page

This data package consists of this signature page, the laboratory review checklist, and the following reportable data as applicable:

R1 - Field chain-of-custody documentation;

R2 - Sample identification cross-reference;

R3 - Test reports (analytical data sheets) for each environmental sample that includes:

a. Items consistent with NELAC Chapter 5,

b. dilution factors,

c. preparation methods,

d. cleanup methods, and

e. if required for the project, tentatively identified compounds (TICs).

R4 - Surrogate recovery data including:

a. Calculated recovery (%R), and

b. The laboratory's surrogate QC limits.

R5 - Test reports/summary forms for blank samples;

R6 - Test reports/summary forms for laboratory control samples (LCSs) including:

a. LCS spiking amounts,

b. Calculated %R for each analyte, and

c. The laboratory's LCS QC limits.

R7 - Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:

a. Samples associated with the MS/MSD clearly identified,

b. MS/MSD spiking amounts,

c. Concentration of each MS/MSD analyte measured in the parent and spiked samples,

d. Calculated %Rs and relative percent differences (RPDs), and

e. The laboratory's MS/MSD QC limits

R8 - Laboratory analytical duplicate (if applicable) recovery and precision:

a. The amount of analyte measured in the duplicate,

b. The calculated RPD, and

c. The laboratory's QC limits for analytical duplicates.

R9 - List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.

R10 - Other problems or anomalies.

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the Exception Reports. By my signature below, I affirm to the best of my knowledge all problems/anomalies observed by the laboratory have been identified in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Jason Romer
Project Manager

Revised May 2010

Laboratory Review Checklist: Reportable Data

Laboratory Name: Pace Analytical National	LRC Date: 11/26/2021 15:44
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1430066-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Jason Romer	Prep Batch Number(s): WG1774117, WG1774003, WG1773532, WG1778491, WG1773352 and WG1778740

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW846 Method 5035?			X		
		If required for the project, are TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability check sample data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Was applicable and available technology used to lower the SDL to minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Accreditation Program for the analytes, matrices and methods associated with this laboratory data package?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data

Laboratory Name: Pace Analytical National	LRC Date: 11/26/2021 15:44
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1430066-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Jason Romer	Prep Batch Number(s): WG1774117, WG1774003, WG1773532, WG1778491, WG1773352 and WG1778740

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB):					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?			X		
S3	O	Mass spectral tuning					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS)					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC Section 5.5.10)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs)					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results					
		Were percent recoveries within method QC limits?			X		
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chapter 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs)					
		Are laboratory SOPs current and on file for each method performed	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Revised May 2010

Laboratory Review Checklist: Exception Reports

Laboratory Name: Pace Analytical National	LRC Date: 11/26/2021 15:44
Project Name: Denton Station SRS2003-00338	Laboratory Job Number: L1430066-01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11 and 12
Reviewer Name: Jason Romer	Prep Batch Number(s): WG1774117, WG1774003, WG1773532, WG1778491, WG1773352 and WG1778740

ER #[1]	Description
1	8270C-SIM WG1774003 p-Terphenyl-d14 L1430066-05, 06, 07, 1 and 2: Percent Recovery is outside of established control limits. 8270C-SIM WG1774117 Nitrobenzene-d5, p-Terphenyl-d14 L1430066-11, 1, 2 and 3: Percent Recovery is outside of established control limits.

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = organic analyses; I = inorganic analyses (and general chemistry, when applicable);
3. NA = Not applicable;
4. NR = Not reviewed;
5. ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000360	J	0.000190	0.000500	0.000500	1	11/13/2021 15:27	WG1773352
Toluene	U		0.000412	0.00100	0.00100	1	11/13/2021 15:27	WG1773352
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/13/2021 15:27	WG1773352
Total Xylene	U		0.000510	0.00150	0.00150	1	11/13/2021 15:27	WG1773352
(S) a,a,a-Trifluorotoluene(PID)	*98.4*				*79.0-125*		*11/13/2021 15:27*	WG1773352

Sample Narrative:

L1430066-01 WG1773352: Benzene result biased high due to carryover from previous sample.

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00119		0.000190	0.000500	0.000500	1	11/13/2021 15:49	WG1773352
Toluene	U		0.000412	0.00100	0.00100	1	11/13/2021 15:49	WG1773352
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/13/2021 15:49	WG1773352
Total Xylene	0.00170	B	0.000510	0.00150	0.00150	1	11/13/2021 15:49	WG1773352
(S) a,a,a-Trifluorotoluene(PID)	*98.2*				*79.0-125*		*11/13/2021 15:49*	WG1773352

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Acenaphthene	U		0.0000190	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Benzo(a)pyrene	U		0.0000184	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Benzo(b)fluoranthene	0.0000405	J	0.0000168	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Benzo(k)fluoranthene	U		0.0000202	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Chrysene	0.000114		0.0000179	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Dibenzofuran	0.000562		0.0000191	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Fluoranthene	0.000112		0.0000270	0.000100	0.000100	1	11/15/2021 15:16	WG1774003
Fluorene	0.000887		0.0000169	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Naphthalene	0.000198	J	0.0000917	0.000250	0.000250	1	11/15/2021 15:16	WG1774003
Phenanthrene	0.00131		0.0000180	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
Pyrene	0.0000732		0.0000169	0.0000500	0.0000500	1	11/15/2021 15:16	WG1774003
1-Methylnaphthalene	0.00295		0.0000687	0.000250	0.000250	1	11/15/2021 15:16	WG1774003
2-Methylnaphthalene	0.00240		0.0000674	0.000250	0.000250	1	11/15/2021 15:16	WG1774003
(S) Nitrobenzene-d5	*111*				*31.0-160*		*11/15/2021 15:16*	WG1774003
(S) 2-Fluorobiphenyl	*118*				*48.0-148*		*11/15/2021 15:16*	WG1774003
(S) p-Terphenyl-d14	*136*				*37.0-146*		*11/15/2021 15:16*	WG1774003

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000265	J	0.000190	0.000500	0.000500	1	11/13/2021 16:11	WG1773352
Toluene	U		0.000412	0.00100	0.00100	1	11/13/2021 16:11	WG1773352
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/13/2021 16:11	WG1773352
Total Xylene	U		0.000510	0.00150	0.00150	1	11/13/2021 16:11	WG1773352
(S) a,a,a-Trifluorotoluene(PID)	*98.3*				*79.0-125*		*11/13/2021 16:11*	WG1773352

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000205	J	0.000190	0.000500	0.000500	1	11/13/2021 16:32	WG1773352
Toluene	U		0.000412	0.00100	0.00100	1	11/13/2021 16:32	WG1773352
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/13/2021 16:32	WG1773352
Total Xylene	U		0.000510	0.00150	0.00150	1	11/13/2021 16:32	WG1773352
(S) a,a,a-Trifluorotoluene(PID)	*99.5*				*79.0-125*		*11/13/2021 16:32*	WG1773352

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	11/13/2021 16:54	WG1773352
Toluene	0.000462	B J	0.000412	0.00100	0.00100	1	11/13/2021 16:54	WG1773352
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/13/2021 16:54	WG1773352
Total Xylene	U		0.000510	0.00150	0.00150	1	11/13/2021 16:54	WG1773352
(S) a,a,a-Trifluorotoluene(PID)	*99.4*				*79.0-125*		*11/13/2021 16:54*	WG1773352

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Acenaphthene	U		0.0000190	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Benzo(a)pyrene	U		0.0000184	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Benzo(k)fluoranthene	U		0.0000202	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Chrysene	U		0.0000179	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Dibenzofuran	U		0.0000191	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Fluoranthene	U		0.0000270	0.000100	0.000100	1	11/15/2021 15:33	WG1774003
Fluorene	U		0.0000169	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Naphthalene	U		0.0000917	0.000250	0.000250	1	11/15/2021 15:33	WG1774003
Phenanthrene	U		0.0000180	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
Pyrene	U		0.0000169	0.0000500	0.0000500	1	11/15/2021 15:33	WG1774003
1-Methylnaphthalene	U		0.0000687	0.000250	0.000250	1	11/15/2021 15:33	WG1774003
2-Methylnaphthalene	U		0.0000674	0.000250	0.000250	1	11/15/2021 15:33	WG1774003
(S) Nitrobenzene-d5	*136*				*31.0-160*		*11/15/2021 15:33*	WG1774003
(S) 2-Fluorobiphenyl	*131*				*48.0-148*		*11/15/2021 15:33*	WG1774003
(S) p-Terphenyl-d14	*160*	J1			*37.0-146*		*11/15/2021 15:33*	WG1774003

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.000190	0.000500	0.000500	1	11/13/2021 17:16	WG1773352
Toluene	U		0.000412	0.00100	0.00100	1	11/13/2021 17:16	WG1773352
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/13/2021 17:16	WG1773352
Total Xylene	U		0.000510	0.00150	0.00150	1	11/13/2021 17:16	WG1773352
(S) a,a,a-Trifluorotoluene(PID)	*99.4*				*79.0-125*		*11/13/2021 17:16*	WG1773352

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Acenaphthene	U		0.0000190	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Benzo(a)pyrene	U		0.0000184	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Benzo(k)fluoranthene	U		0.0000202	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Chrysene	U		0.0000179	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Dibenzofuran	U		0.0000191	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Fluoranthene	U		0.0000270	0.000100	0.000100	1	11/15/2021 15:50	WG1774003
Fluorene	U		0.0000169	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Naphthalene	U		0.0000917	0.000250	0.000250	1	11/15/2021 15:50	WG1774003
Phenanthrene	U		0.0000180	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
Pyrene	U		0.0000169	0.0000500	0.0000500	1	11/15/2021 15:50	WG1774003
1-Methylnaphthalene	U		0.0000687	0.000250	0.000250	1	11/15/2021 15:50	WG1774003
2-Methylnaphthalene	U		0.0000674	0.000250	0.000250	1	11/15/2021 15:50	WG1774003
(S) Nitrobenzene-d5	*132*				*31.0-160*		*11/15/2021 15:50*	WG1774003
(S) 2-Fluorobiphenyl	*128*				*48.0-148*		*11/15/2021 15:50*	WG1774003
(S) p-Terphenyl-d14	*155*	J1			*37.0-146*		*11/15/2021 15:50*	WG1774003

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000311	B J	0.000190	0.000500	0.000500	1	11/13/2021 20:09	WG1773532
Toluene	0.000530	B J	0.000412	0.00100	0.00100	1	11/13/2021 20:09	WG1773532
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/13/2021 20:09	WG1773532
Total Xylene	U		0.000510	0.00150	0.00150	1	11/13/2021 20:09	WG1773532
(S) a,a,a-Trifluorotoluene(PID)	*99.4*				*79.0-125*		*11/13/2021 20:09*	WG1773532

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Acenaphthene	U		0.0000190	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Benzo(a)pyrene	U		0.0000184	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Benzo(k)fluoranthene	U		0.0000202	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Chrysene	U		0.0000179	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Dibenzofuran	U		0.0000191	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Fluoranthene	U		0.0000270	0.000100	0.000100	1	11/15/2021 16:08	WG1774003
Fluorene	U		0.0000169	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Naphthalene	U		0.0000917	0.000250	0.000250	1	11/15/2021 16:08	WG1774003
Phenanthrene	U		0.0000180	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
Pyrene	U		0.0000169	0.0000500	0.0000500	1	11/15/2021 16:08	WG1774003
1-Methylnaphthalene	U		0.0000687	0.000250	0.000250	1	11/15/2021 16:08	WG1774003
2-Methylnaphthalene	U		0.0000674	0.000250	0.000250	1	11/15/2021 16:08	WG1774003
(S) Nitrobenzene-d5	*133*				*31.0-160*		*11/15/2021 16:08*	WG1774003
(S) 2-Fluorobiphenyl	*129*				*48.0-148*		*11/15/2021 16:08*	WG1774003
(S) p-Terphenyl-d14	*157*	J1			*37.0-146*		*11/15/2021 16:08*	WG1774003

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000393	B J	0.000190	0.000500	0.000500	1	11/13/2021 20:31	WG1773532
Toluene	U		0.000412	0.00100	0.00100	1	11/13/2021 20:31	WG1773532
Ethylbenzene	0.00111		0.000160	0.000500	0.000500	1	11/13/2021 20:31	WG1773532
Total Xylene	U		0.000510	0.00150	0.00150	1	11/13/2021 20:31	WG1773532
(S) a,a,a-Trifluorotoluene(PID)	*98.8*				*79.0-125*		*11/13/2021 20:31*	WG1773532

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.000436	B J	0.000190	0.000500	0.000500	1	11/13/2021 20:52	WG1773532
Toluene	U		0.000412	0.00100	0.00100	1	11/13/2021 20:52	WG1773532
Ethylbenzene	0.000215	J	0.000160	0.000500	0.000500	1	11/13/2021 20:52	WG1773532
Total Xylene	U		0.000510	0.00150	0.00150	1	11/13/2021 20:52	WG1773532
(S) a,a,a-Trifluorotoluene(PID)	*98.6*				*79.0-125*		*11/13/2021 20:52*	WG1773532

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.00695		0.000190	0.000500	0.000500	1	11/13/2021 21:14	WG1773532
Toluene	U		0.000412	0.00100	0.00100	1	11/13/2021 21:14	WG1773532
Ethylbenzene	U		0.000160	0.000500	0.000500	1	11/13/2021 21:14	WG1773532
Total Xylene	U		0.000510	0.00150	0.00150	1	11/13/2021 21:14	WG1773532
(S) a,a,a-Trifluorotoluene(PID)	*98.6*				*79.0-125*		*11/13/2021 21:14*	WG1773532

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.914		0.00475	0.000500	0.0125	25	11/14/2021 03:14	WG1773532
Toluene	U		0.0103	0.00100	0.0250	25	11/14/2021 03:14	WG1773532
Ethylbenzene	0.0159		0.00400	0.000500	0.0125	25	11/14/2021 03:14	WG1773532
Total Xylene	0.0223	J	0.0128	0.00150	0.0375	25	11/14/2021 03:14	WG1773532
(S) a,a,a-Trifluorotoluene(PID)	*97.9*				*79.0-125*		*11/14/2021 03:14*	WG1773532

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Anthracene	U		0.0000190	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Acenaphthene	0.000404		0.0000190	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Acenaphthylene	U		0.0000171	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Benzo(a)anthracene	U		0.0000203	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Benzo(a)pyrene	U		0.0000184	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Benzo(b)fluoranthene	U		0.0000168	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Benzo(g,h,i)perylene	U		0.0000184	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Benzo(k)fluoranthene	U		0.0000202	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Chrysene	U		0.0000179	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Dibenzofuran	0.00156		0.0000191	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Fluoranthene	U		0.0000270	0.000100	0.000100	1	11/15/2021 13:07	WG1774117
Fluorene	0.00117		0.0000169	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Naphthalene	0.0477		0.0000917	0.000250	0.000250	1	11/15/2021 13:07	WG1774117
Phenanthrene	0.00208		0.0000180	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
Pyrene	0.0000224	J	0.0000169	0.0000500	0.0000500	1	11/15/2021 13:07	WG1774117
1-Methylnaphthalene	0.0322		0.0000687	0.000250	0.000250	1	11/15/2021 13:07	WG1774117
2-Methylnaphthalene	0.0367		0.0000674	0.000250	0.000250	1	11/15/2021 13:07	WG1774117
(S) Nitrobenzene-d5	*206*	J1			*31.0-160*		*11/15/2021 13:07*	WG1774117
(S) 2-Fluorobiphenyl	*103*				*48.0-148*		*11/15/2021 13:07*	WG1774117
(S) p-Terphenyl-d14	*128*				*37.0-146*		*11/15/2021 13:07*	WG1774117

Sample Narrative:

L1430066-11 WG1774117: Surrogate failure due to matrix interference

DUP
Collected date/time: 11/09/21 00:00
L1430066

Volatile Organic Compounds (GC) by Method 8021B

Analyte	Result mg/l	Qualifier	SDL mg/l	Unadj. MQL mg/l	MQL mg/l	Dilution	Analysis date / time	Batch
Benzene	0.839		0.00380	0.000500	0.0100	20	11/22/2021 13:36	WG1778491
Toluene	0.000911	B J	0.000412	0.00100	0.00100	1	11/13/2021 21:36	WG1773532
Ethylbenzene	0.0449		0.000160	0.000500	0.000500	1	11/13/2021 21:36	WG1773532
Total Xylene	0.0417		0.000510	0.00150	0.00150	1	11/13/2021 21:36	WG1773532
(S) a,a,a-Trifluorotoluene(PID)	*95.3*				*79.0-125*		*11/13/2021 21:36*	WG1773532
(S) a,a,a-Trifluorotoluene(PID)	*95.3*				*79.0-125*		*11/22/2021 13:36*	WG1778491

Method Blank (MB)

(MB) R3732547-2 11/13/21 10:20

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
Toluene	0.000651	J	0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	0.000598	J	0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*99.1*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3732547-1 11/13/21 08:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0452	90.4	77.0-122	
Toluene	0.0500	0.0445	89.0	80.0-121	
Ethylbenzene	0.0500	0.0489	97.8	80.0-123	
Total Xylene	0.150	0.142	94.7	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*99.9*	*79.0-125*	

Method Blank (MB)

(MB) R3732312-3 11/13/21 19:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	0.000372	J	0.000190	0.000500
Toluene	0.000636	J	0.000412	0.00100
Ethylbenzene	U		0.000160	0.000500
Total Xylene	U		0.000510	0.00150
(S) a,a,a-Trifluorotoluene(PID)	*98.4*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3732312-1 11/13/21 18:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0479	95.8	77.0-122	
Toluene	0.0500	0.0449	89.8	80.0-121	
Ethylbenzene	0.0500	0.0496	99.2	80.0-123	
Total Xylene	0.150	0.144	96.0	47.0-154	
(S) a,a,a-Trifluorotoluene(PID)			*98.6*	*79.0-125*	

Method Blank (MB)

(MB) R3732410-4 11/22/21 10:47

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.000190	0.000500
(S) a,a,a-Trifluorotoluene(PID)	*95.5*			*79.0-125*

Laboratory Control Sample (LCS)

(LCS) R3732410-1 11/22/21 09:21

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.0500	0.0476	95.2	77.0-122	
(S) a,a,a-Trifluorotoluene(PID)			*96.1*	*79.0-125*	

Method Blank (MB)

(MB) R3729743-2 11/15/21 14:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Acenaphthylene	U		0.0000171	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(g,h,i)perylene	U		0.0000184	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Chrysene	U		0.0000179	0.0000500
Dibenz(a,h)anthracene	U		0.0000160	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Phenanthrene	U		0.0000180	0.0000500
Pyrene	U		0.0000169	0.0000500
1-Methylnaphthalene	U		0.0000687	0.000250
2-Methylnaphthalene	U		0.0000674	0.000250
Dibenzofuran	U		0.0000191	0.0000500
(S) Nitrobenzene-d5	*135*			*31.0-160*
(S) 2-Fluorobiphenyl	*135*			*48.0-148*
(S) p-Terphenyl-d14	*171*	J1		*37.0-146*

Laboratory Control Sample (LCS)

(LCS) R3729743-1 11/15/21 14:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Dibenzofuran	0.00200	0.00248	124	67.0-134	
Anthracene	0.00200	0.00257	129	67.0-150	
Acenaphthene	0.00200	0.00245	122	65.0-138	
Acenaphthylene	0.00200	0.00258	129	66.0-140	
Benzo(a)anthracene	0.00200	0.00257	129	61.0-140	
Benzo(a)pyrene	0.00200	0.00246	123	60.0-143	
Benzo(b)fluoranthene	0.00200	0.00251	126	58.0-141	
Benzo(g,h,i)perylene	0.00200	0.00248	124	52.0-153	
Benzo(k)fluoranthene	0.00200	0.00251	126	58.0-148	
Chrysene	0.00200	0.00256	128	64.0-144	
Dibenz(a,h)anthracene	0.00200	0.00245	122	52.0-155	

Laboratory Control Sample (LCS)

(LCS) R3729743-1 11/15/21 14:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluoranthene	0.00200	0.00263	132	69.0-153	
Fluorene	0.00200	0.00247	123	64.0-136	
Indeno(1,2,3-cd)pyrene	0.00200	0.00245	122	54.0-153	
Naphthalene	0.00200	0.00236	118	61.0-137	
Phenanthrene	0.00200	0.00260	130	62.0-137	
Pyrene	0.00200	0.00264	132	60.0-142	
1-Methylnaphthalene	0.00200	0.00245	122	66.0-142	
2-Methylnaphthalene	0.00200	0.00230	115	62.0-136	
(S) Nitrobenzene-d5			*129*	*31.0-160*	
(S) 2-Fluorobiphenyl			*126*	*48.0-148*	
(S) p-Terphenyl-d14			*156*	*37.0-146*	J1

L1430798-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1430798-01 11/15/21 18:43 • (MS) R3729743-3 11/15/21 19:00 • (MSD) R3729743-4 11/15/21 19:17

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	U	0.00222	0.00238	111	119	1	56.0-156			6.96	20
Acenaphthene	0.00200	U	0.00225	0.00243	112	122	1	44.0-153			7.69	20
Acenaphthylene	0.00200	U	0.00235	0.00253	117	126	1	53.0-150			7.38	20
Benzo(a)anthracene	0.00200	U	0.00196	0.00210	98.0	105	1	47.0-151			6.90	20
Benzo(a)pyrene	0.00200	U	0.00167	0.00172	83.5	86.0	1	45.0-146			2.95	20
Benzo(b)fluoranthene	0.00200	U	0.00175	0.00184	87.5	92.0	1	43.0-142			5.01	20
Benzo(g,h,i)perylene	0.00200	U	0.00160	0.00157	80.0	78.5	1	40.0-147			1.89	20
Benzo(k)fluoranthene	0.00200	U	0.00166	0.00168	83.0	84.0	1	43.0-148			1.20	21
Chrysene	0.00200	U	0.00184	0.00195	92.0	97.5	1	50.0-148			5.80	20
Dibenz(a,h)anthracene	0.00200	U	0.00151	0.00149	75.5	74.5	1	37.0-151			1.33	20
Fluoranthene	0.00200	U	0.00223	0.00241	111	120	1	56.0-157			7.76	20
Fluorene	0.00200	U	0.00223	0.00242	111	121	1	48.0-148			8.17	20
Indeno(1,2,3-cd)pyrene	0.00200	U	0.00155	0.00153	77.5	76.5	1	41.0-148			1.30	20
Naphthalene	0.00200	U	0.00223	0.00237	111	118	1	10.0-160			6.09	20
Phenanthrene	0.00200	U	0.00224	0.00246	112	123	1	47.0-147			9.36	20
Pyrene	0.00200	U	0.00227	0.00249	114	124	1	51.0-148			9.24	20
1-Methylnaphthalene	0.00200	U	0.00228	0.00241	114	120	1	21.0-160			5.54	20
2-Methylnaphthalene	0.00200	U	0.00213	0.00229	106	115	1	31.0-160			7.24	20
Dibenzofuran	0.00200	U	0.00222	0.00239	111	119	1	48.0-138			7.38	20
(S) Nitrobenzene-d5					*126*	*135*		*31.0-160*				
(S) 2-Fluorobiphenyl					*114*	*125*		*48.0-148*				
(S) p-Terphenyl-d14					*112*	*119*		*37.0-146*				

Method Blank (MB)

(MB) R3729728-3 11/15/21 12:13

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Acenaphthylene	U		0.0000171	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(g,h,i)perylene	U		0.0000184	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Chrysene	U		0.0000179	0.0000500
Dibenz(a,h)anthracene	U		0.0000160	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Phenanthrene	U		0.0000180	0.0000500
Pyrene	U		0.0000169	0.0000500
1-Methylnaphthalene	U		0.0000687	0.000250
2-Methylnaphthalene	U		0.0000674	0.000250
Dibenzofuran	U		0.0000191	0.0000500
(S) Nitrobenzene-d5	*134*			*31.0-160*
(S) 2-Fluorobiphenyl	*121*			*48.0-148*
(S) p-Terphenyl-d14	*156*	J1		*37.0-146*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3729728-1 11/15/21 11:38 • (LCSD) R3729728-2 11/15/21 11:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Dibenzofuran	0.00200	0.00221	0.00231	111	115	67.0-134			4.42	20
Anthracene	0.00200	0.00255	0.00244	128	122	67.0-150			4.41	20
Acenaphthene	0.00200	0.00228	0.00210	114	105	65.0-138			8.22	20
Acenaphthylene	0.00200	0.00243	0.00251	122	126	66.0-140			3.24	20
Benzo(a)anthracene	0.00200	0.00237	0.00249	118	124	61.0-140			4.94	20
Benzo(a)pyrene	0.00200	0.00255	0.00241	128	120	60.0-143			5.65	20
Benzo(b)fluoranthene	0.00200	0.00255	0.00248	128	124	58.0-141			2.78	20
Benzo(g,h,i)perylene	0.00200	0.00233	0.00216	117	108	52.0-153			7.57	20
Benzo(k)fluoranthene	0.00200	0.00249	0.00246	124	123	58.0-148			1.21	20
Chrysene	0.00200	0.00233	0.00245	117	122	64.0-144			5.02	20
Dibenz(a,h)anthracene	0.00200	0.00243	0.00222	122	111	52.0-155			9.03	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3729728-1 11/15/21 11:38 • (LCSD) R3729728-2 11/15/21 11:55

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Fluoranthene	0.00200	0.00259	0.00264	130	132	69.0-153			1.91	20
Fluorene	0.00200	0.00255	0.00209	128	104	64.0-136			19.8	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00244	0.00221	122	111	54.0-153			9.89	20
Naphthalene	0.00200	0.00229	0.00227	115	114	61.0-137			0.877	20
Phenanthrene	0.00200	0.00248	0.00246	124	123	62.0-137			0.810	20
Pyrene	0.00200	0.00240	0.00251	120	126	60.0-142			4.48	20
1-Methylnaphthalene	0.00200	0.00230	0.00249	115	124	66.0-142			7.93	20
2-Methylnaphthalene	0.00200	0.00219	0.00230	109	115	62.0-136			4.90	20
(S) Nitrobenzene-d5				*131*	*134*	*31.0-160*				
(S) 2-Fluorobiphenyl				*109*	*121*	*48.0-148*				
(S) p-Terphenyl-d14				*148*	*151*	*37.0-146*	J1	J1		

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
MQL	Method Quantitation Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
SDL	Sample Detection Limit.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Sample Detection Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	KY90010	South Carolina	84004002
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas [5]	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Attn: Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Report to: Becky Haskell

Email To: becky.haskell@ghd.com

Project Description: Denton Station

City/State Collected: Lovington, NM

Phone: 432-250-7917
Fax:

Client Project # SRS 2003-00338

Lab Project # SRS 2003-00338

Collected by (print): David Hutchins

Collected by (signature):

Site/Facility ID # SRS 2003-00338

P.O. #

Quote #

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed: Standard TAT Per SSOW

Pres Chk

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mLAmb-HCL ext to C35	PAHSIMLVI 40mLAmb-NoPres-WT	Remarks	Sample # (lab only)
MW 2R	GAB	GW	NA	11-8-21	1415	3	X			-01
MW 5					1440	6		X		-02
MW 8 (DUP)					1500	~~3~~ 6				
MW 10					1330	3				-03
MW 12					1530	3				-04
MW 18					1300	6		X		-05
MW 19					1400	6		X		-06
MW 20					1040	6		X		-07
MW 6				11-9-21	1115	3				-08
MW 4					1230	3				-09

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1430066

1064

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-11209870

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
David Hutchins	11-10-21	0730	Kendall Shumpert	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 5.0 °C Bottles Received: 51
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/11/21 Time: 0800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
Plains All American, LP - GHD
2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2

Pace Analytical®
12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Report to: Becky Haskell
Email To: becky.haskell@ghd.com;glenn.quinney@ghd.co

Project Description: Denton Station SRS2003-00338
City/State Collected:
Please Circle: PT MT CT ET

Phone: 432-250-7917
Client Project #: 11209870/02
Lab Project #: PLAINSGHD-11209870

Collected by (print): David Fletcher
Site/Facility ID #: SRS 2003-00338
P.O. #:

Collected by (signature): [signature]
Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day
Quote #
Date Results Needed

Immediately Packed on Ice N ___ Y ✓

SDG # L1430046
Table #
Acctnum: PLAINSGHD
Template: T198202
Prelogin: P883768
PM: 823 - Olivia Studebaker
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mlAmb-HCl ext to C35	PAHSIMLVI 40mlAmb-NoPres-WT								Remarks	Sample # (lab only)
MW 1R	Grab	GW	NA	11-9-21	1145	3	X										-10
MW 17	↓	GW	↓	↓	1230	6	↓	X									-11
DUP	↓	GW	↓	↓		3	↓										-12
		GW															
		GW															
		GW															
		GW															
		GW															
		GW															
		GW															

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other ________

Remarks:
pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS __ FedEx __ Courier ________
Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: ✓Y N
Bottles arrive intact: ✓Y N
Correct bottles used: ✓Y N
Sufficient volume sent: ✓Y N
If Applicable
VOA Zero Headspace: ✓Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y ✓N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
[signature]	11-10-21	0730	Kendell Humphries	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: .5+0=.5 °C Bottles Received:
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 11/11/21 Time: 0800

If preservation required by Login: Date/Time
Hold:
Condition: NCF / OK

Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Attn: Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

Pace Analytical®

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1430066

I064

Report to: Becky Haskell

Email To: becky.haskell@ghd.com

Project Description: Denton Station

City/State Collected: Lovington, NM

Phone: 432-250-7917
Fax:

Client Project #: SRS 2003-00338

Lab Project #: SRS 2003-00338

Collected by (print): David Blatchley

Site/Facility ID #: SRS 2003-00338

P.O. #

Collected by (signature): [signature]

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed: Standard TAT Per SSOW

Immediately Packed on Ice N___ Y ✓

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mlAmb-HCL ext to C35	PAHSIMLVI 40mlAmb-NoPres-WT	Remarks	Sample # (lab only)
MW 2R	GRB	GW	NA	11-8-21	1415	3	X			-01
MW5					1440	6		X		-02
~~MW 8~~ (MWS 11/12/21)					~~1500~~	~~3~~				
MW 10				11/12 MWL	1500 ~~1330~~	3				-03
MW 12				1330	~~1530~~ MWL 11/12	3				-04
MW 18				1530	~~1300~~ MWL 11/12			X		-05
MW 19				1500	~~1400~~ MWL 11/12			X		-06
MW 20				1400	~~1040~~ MWL 11/12			X		-07
MW 6				11-9-21 1040	~~1115~~ MWL 11/12					-08
MW 4				1115	~~1230~~ MWL 11/12	3				-09

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other________

Remarks:
1. Report to SDLs; 2. Flag estimated concentrations;
3. Lab Project #: PLAINSGHD-11209870

pH ______ Temp ______
Flow ______ Other ______

Samples returned via:
__ UPS __ FedEx __ Courier

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: ✓ Y N
Bottles arrive intact: ✓ Y N
Correct bottles used: ✓ Y N
Sufficient volume sent: ✓ Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: ✓ Y N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No (HCL / MeOH, TBR)	
[signature]	11-10-21	0730	[signature]		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 4.0±1 .5=5 °C	Bottles Received: 51
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 11/11/21	Time: 0800

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Company Name/Address:
Plains All American, LP - GHD

2135 S Loop 250 W
Midland, TX 79703

Billing Information:
Camille Bryant
10 Desta Dr., Ste. 550E
Midland, TX 79705

Pres Chk

Report to:
Becky Haskell

Email To:
becky.haskell@ghd.com;glenn.quinney@ghd.co

Project Description:
Denton Station SRS2003-00338

City/State Collected:

Please Circle: PT MT CT ET

Phone: **432-250-7917**

Client Project #
11209870/02

Lab Project #
PLAINSGHD-11209870

Collected by (print):

Collected by (signature):

Immediately Packed on Ice N ___ Y ___

Site/Facility ID #
SRS 2003-00338

P.O. #

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	BTEX 40mlAmb-HCl ext to 35	PAHSIMLVI 40mlAmb-NoPres-WT
MW1R	Grab	GW	N/A	11-9-21	1145	3	X	
MW17		GW			1230	6		X
DUP		GW				3		
		GW						
		GW						
		GW						
		GW						
		GW						
		GW						
		GW						

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other ____

Remarks:

pH ____ Temp ____
Flow ____ Other ____

Samples returned via:
___ UPS ___ FedEx ___ Courier

Tracking #

Chain of Custody Page 2 of 2

Pace Analytical

SDG # L1430646

Table #

Acctnum: PLAINSGHD

Template: T198202

Prelogin: P883768

PM: 823 - Olivia Stodebaker

PB:

Shipped Via

Remarks | Sample # (lab only)

-16
-11
-12

Sample Receipt Checklist
COC Seal Present/Intact: ___ Y ___ N
COC Signed/Accurate: ___ Y ___ N
Bottles arrive intact: ___ Y ___ N
Correct bottles used: ___ Y ___ N
Sufficient volume sent: ___ Y ___ N
If Applicable
VOA Zero Headspace: ___ Y ___ N
Preservation Correct/Checked: ___ Y ___ N
RAD Screen <0.5 mR/hr: ___ Y ___ N

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR	If preservation required by Login: Date/Time
	11-10-21	0730	Kendell Humphries		
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.5 °C Bottles Received:	
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/11/21 Time: 0850	Hold: Condition: NCF / OK

11/11-L1430066-NCF PLAINSGHD

R5

Time estimate: oh **Time spent:** oh **Grouping date:** 12 November

Members

Cole Medley (responsible) OS Olivia Studebaker

~~Due on *15 November 2021 5:00 PM* for target *Done*~~ (Was done by Cole Medley at 12 November 2021 10:17 AM)

- [x] Login Clarification needed
- [ ] Chain of custody is incomplete
- [ ] Please specify Metals requested
- [ ] Please specify TCLP requested
- [ ] Received additional samples not listed on COC
- [ ] Sample IDs on containers do not match IDs on COC
- [ ] Client did not "X" analysis
- [ ] Chain of Custody is missing
- [ ] If no COC: Received by:_____
- [ ] If no COC: Date/Time:_____
- [ ] If no COC: Temp./Cont.Rec./pH:_____
- [ ] If no COC: Carrier:_____
- [ ] If no COC: Tracking #:_____
- [ ] Client informed by call
- [ ] Client informed by Email
- [ ] Client informed by Voicemail
- [ ] Date/Time:__11/12/21_1016_____
- [ ] PM initials:_____OS_____
- [ ] Client Contact:__Becky Haskell / Matthew Laughlin_____

Comments

Cole Medley *11 November 2021 5:19 PM*

Did not receive ID: MW-9

Olivia Studebaker *12 November 2021 10:14 AM*

Client confirmed there is no sample associated with MW-9 and has provided the attached revised COC.

Denton Station_Revised CoC_November 12 2021.pdf

Cole Medley *12 November 2021 10:17 AM*

Done.

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

Operator:	OGRID:
PLAINS MARKETING L.P. 333 Clay Street Suite 1900 Houston, TX 77002	34053
	Action Number: 93012
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2021 Annual Groundwater Monitoring Report: Content satisfactory Contractor recommendations approved by NMOCD and are as follows; 1. Continue the operation of EFR events at MW-3R and MW-7 on a quarterly basis 2. Conduct LNAPL abatement via hand-bailing on a weekly basis for monitor wells that have a measurable amount of LNAPL 3. Continue NMOCD-approved quarterly GWSEs for BTEX by Method 8021B for all monitor wells located on-site 4. Removal of MW-5, MW-18, MW-19, and MW-20 from the annual PAH sampling schedule unless they are re-impacted by LNAPL 5. Sample MW-17 for PAH during the fourth quarter of 2022. Additionally, any wells that cease to have LNAPL for PAH 6. Submit the Annual Groundwater Monitoring Report to the NMOCD no later than March 31, 2023.	8/3/2022