



701 Tradewinds Blvd  
Midland, Texas 79707  
Tel. 432-766-1918  
www.ntgenvironmental.com

July 2, 2025

Devon Energy  
Attn: Mr. Jim Raley  
Environmental Professional  
5321 Buena Vista Drive  
Carlsbad, New Mexico 88220

**Re: 2025 Q2 Groundwater Monitoring Report  
Historic Dickinson Tank Battery Release  
Unit Letter M, Sec 1, T15S, R37E  
GPS Coodinates: 33.042588°N, -103.158438°W  
Lea County, New Mexico  
NMOCD Release Number: NAUTOFLWP00122 (Formerly 1R-432)**

## **1. Introduction**

New Tech Global Environmental, LLC (NTGE) on behalf of Devon Energy (Devon), has prepared this 2025 Q2 Groundwater Monitoring Report for submittal to the New Mexico Oil Conservation Division (NMOCD) in Albuquerque, New Mexico. This report presents the 2025 second (2<sup>nd</sup>) quarter laboratory analysis of groundwater samples collected from three (3) monitor wells (MW-6A, MW-South-A, and MW-North-A) at the former Dickinson Tank Battery (Site) located in Unit Letter M, Section 1, Township 15 South, Range 37 East, in Lea County, New Mexico. The geodetic position is latitude 33.042588° N, longitude -103.158438° W. See Figures 1 and 2 for Site Location and Topographic Maps.

## **2. Background**

The tank battery was acquired by Devon in 2001 as part of a larger asset purchase. Devon undertook an independent study of the site which included the advancement, development, and monitoring of a series of seven (7) monitor wells (MW-1 through MW-7). Initial analysis indicated the site had Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) below regulatory limits with two wells exhibiting chloride concentrations above the New Mexico Water Quality Control Commission (NMWQCC) standards. In 2005, two additional monitor wells (MW-South and MW-North) were installed to complete delineation at the site in conjunction with remediation of the hydrocarbon impacted soils near the pit and former tank battery. During remediation, several of the monitor wells (MW-2 and MW-3) were plugged and abandoned (P&A) due to their proximity to the excavation. In 2006, the NMOCD granted closure of the soils at the site and requested continued monitoring of the onsite wells. In a letter dated March 22, 2013, Mr. Jim Griswold of the NMOCD approved plugging of monitor wells MW-1, MW-4, MW-5, and MW-7 with continued monitoring of onsite monitor wells MW-6, MW-South and MW-North. NTGE field personnel verified during a site visit in November 2023, that the requested wells had been P&A in accordance with the NMOCD.

In an email dated November 29, 2023, Mr. Mike Buchanan of the NMOCD requested that Devon plug and abandon monitor wells MW-6, MW-North, and MW-South due to low volumes of groundwater and reinstall the wells at deeper intervals. On December 2 through 3, 2024 White Drilling (White) was onsite to P&A the three monitor wells and reinstall them at a depth of 100 feet below ground surface (bgs). The new wells were

Mr. Jim Raley  
July 2, 2025  
Page 2 of 3

designated as monitor wells MW-6A, MW-North-A, and MW-South-A.

### **3. Groundwater Monitoring and Sampling Procedures**

NTGE was onsite to complete the groundwater gauging and sampling event on May 28, 2025. All three monitor wells (MW-6A, MW-South-A, and MW-North-A) were gauged, purged, and sampled in accordance with all appropriate local, state, and federal regulations. Prior to sampling, the wells were gauged to determine depth to static groundwater and measure Light Non-Aqueous Phase Liquids (LNAPL), if any. The wells were then purged and sampled using low stress or low flow method following EPA protocol (EQASOP-GW-4, Revision 3, September 19, 2017) where an environmental pump is submerged near the middle of the water column and the well is pumped at a low rate until environmental parameters stabilize. The samples were collected from discharge through dedicated disposable Tygon® tubing. The tubing was discarded after each use and the pump was thoroughly cleaned with a solution of distilled water and laboratory grade detergent (Alconox®) and rinsed with distilled water. The three (3) groundwater samples were placed on ice and submitted to Eurofins Laboratory of Midland, Texas for analysis of BTEX by EPA Method 8260B and chlorides by EPA Method 300.0.

### **4. Groundwater Gradient**

On May 28, 2025, NTGE was onsite to gauge each of the three (3) monitor wells. See Figure 3 for site monitoring well locations. Utilizing a water level indicator each of the wells were gauged from a mark on the north side of the well casing to depth of encountered groundwater and the bottom of the well. The corrected groundwater depth was then calculated, and a gradient map developed. Figure 4 indicates the groundwater gradient at the site is to the northeast towards monitor well MW-North-A. See Table 1 for gauging data with corrected groundwater elevations.

### **5. Groundwater Sampling Results**

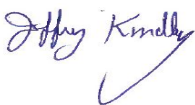
Analytical results indicated all samples were below the NMWQCC standards for BTEX and chlorides. Chlorides in the groundwater ranged from 87.6 milligrams per Liter (mg/L) in MW-6-A to 150.0 mg/L in MW-North-A. The BTEX concentrations were all below laboratory method detection limits. See Table 2 for groundwater analytical results along with Figure 5 Groundwater Hydrocarbon Concentration Map. See Appendix A for laboratory analytical results.

### **6. Conclusions and Recommendations**

Based on the current groundwater results, the site gradient appears to be northeast towards monitor well MW-North-A with analytical results below the NMWQCC standards. NTGE suggests the site should remain on quarterly sampling and if the site is below NMWQCC standards for eight (8) consecutive quarters, Devon should pursue closure of the site.

If you have any questions regarding this report or need additional information, please contact us at 432-766-1918.

Sincerely,  
NTG Environmental



Jeff Kindley, P.G  
Senior Project Manager/Geologist

Mr. Jim Raley  
July 2, 2025  
Page 3 of 3

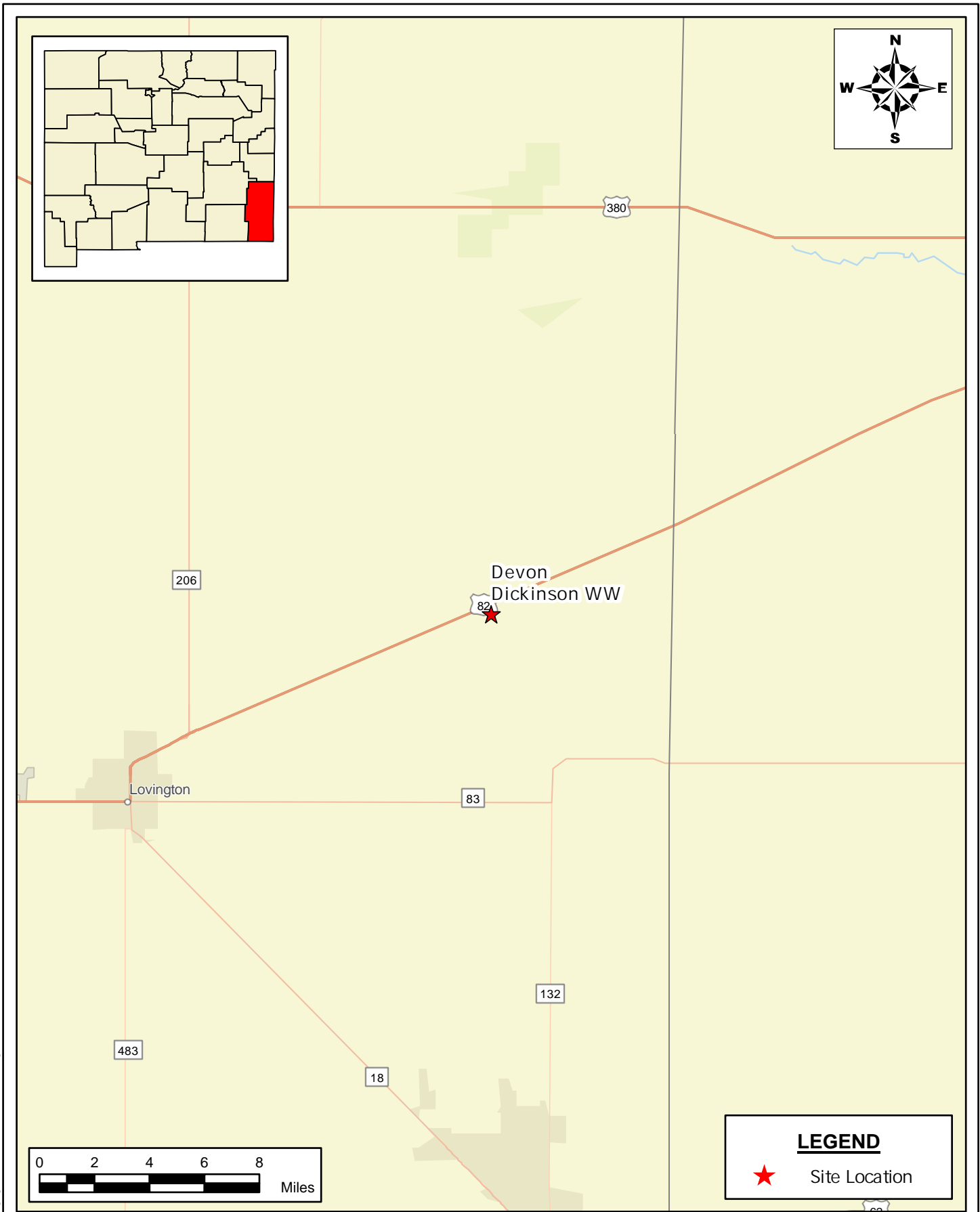
Attachments:

- Figure 1 – Site Location Map
- Figure 2 – Topographic Map
- Figure 3 – Monitor Well Location Map
- Figure 4 – Groundwater Gradient Map (May 28, 2025)
- Figure 5 – Hydrocarbon Concentration Map (May 28, 2025)
- Table 1 – Groundwater Elevation Data
- Table 2 – Groundwater Analytical Data
- Appendix A: - Laboratory Analytical Reports and Chain-of-Custody Documentation

## **FIGURES**

---

Document Path: C:\Users\ntgis\Desktop\Geodatabase\Figure\_1\_SLMMap\_02272025.aprx



**SITE LOCATION MAP**  
**DEVON ENERGY**  
DEVON DICKINSON WW  
LEA COUNTY, NEW MEXICO  
33.042724, -103.158525

SCALE: As Shown    Date: 2/27/2025    PROJECT #: 237796



**New Tech Global Environmental, LLC**  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntglobal.com

**NOTES:**

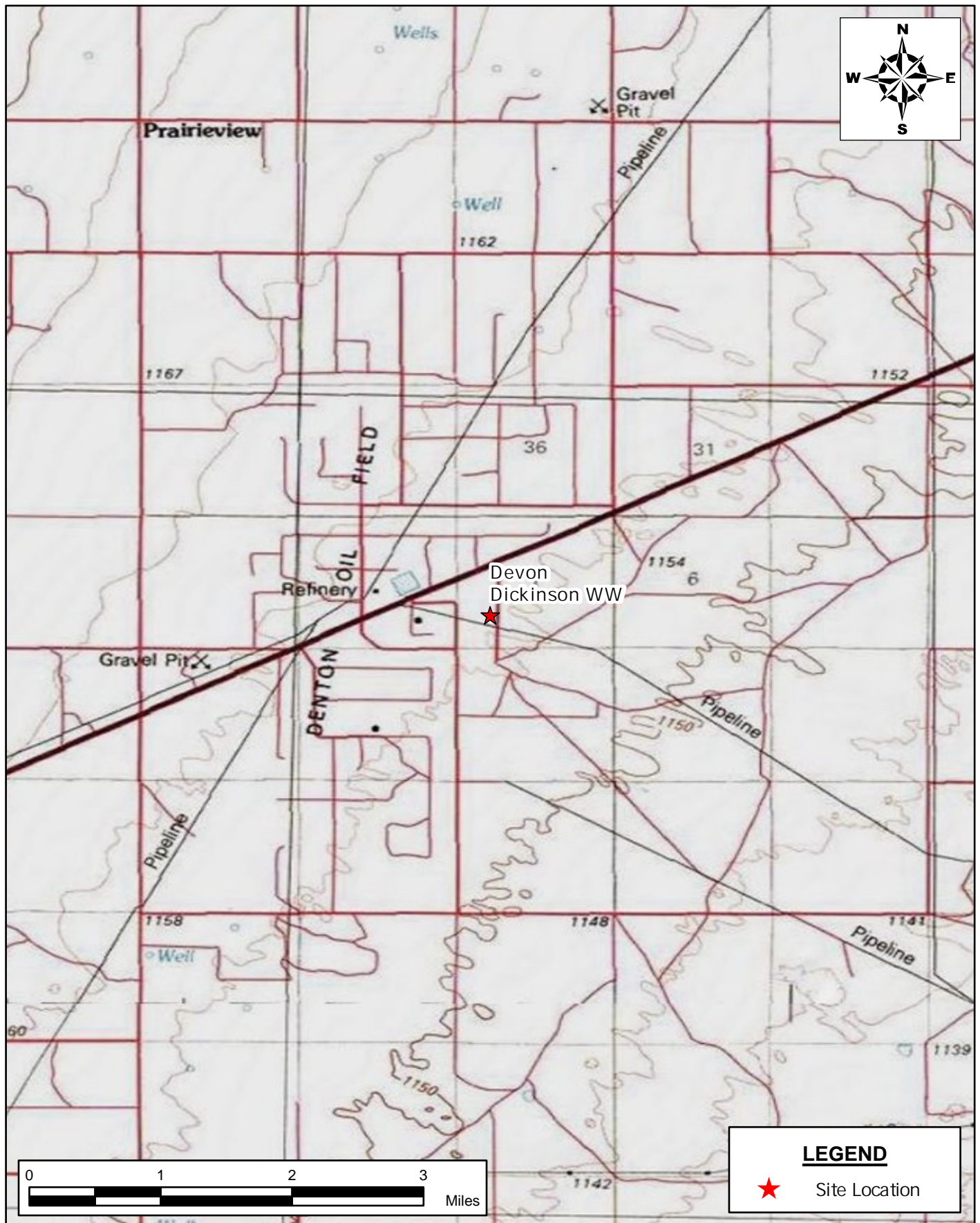
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

**FIGURE 1**

SHEET NUMBER:

**1 of 1**



**TOPOGRAPHIC MAP**  
**DEVON ENERGY**  
 DEVON DICKINSON WW  
 LEA COUNTY, NEW MEXICO  
 33.042724, -103.158525

SCALE: As Shown

Date: 2/27/2025

PROJECT #: 237796



**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntglobal.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

**FIGURE 2**

SHEET NUMBER:

**1 of 1**





Document Path: C:\Users\ntgis\Desktop\Geodatabase\Figure\_3\_MonitorWellLocationMap\_02252025.aprx

**MONITOR WELL LOCATION MAP**  
**DEVON ENERGY**  
 DEVON DICKINSON WW  
 LEA COUNTY, NEW MEXICO  
 33.042724, -103.158525

SCALE: As Shown

Date: 2/25/2025

PROJECT #: 237796



**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntglobal.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

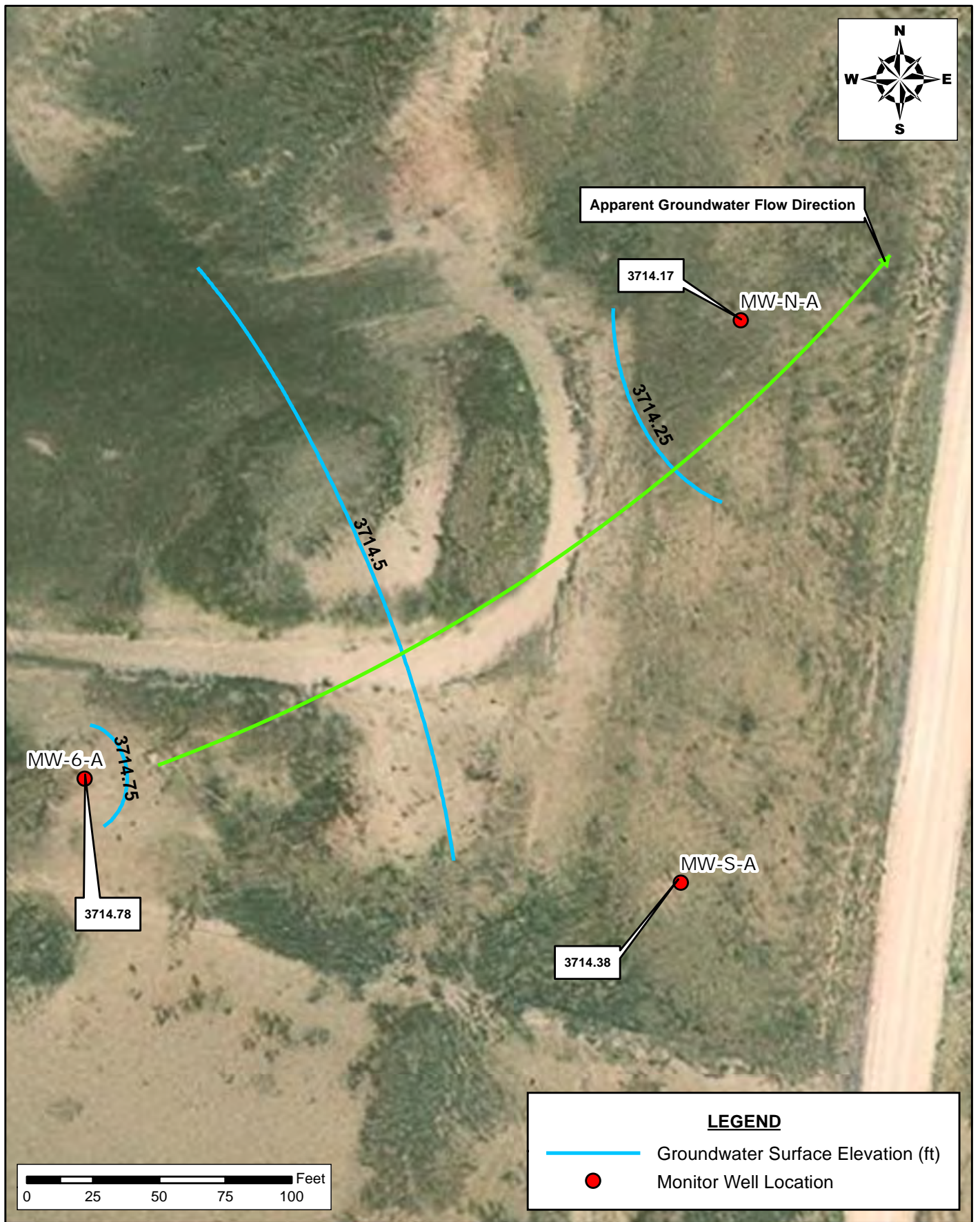
**FIGURE 3**

SHEET NUMBER:

**1 of 1**



Document Path: P:\2023 PROJECTS\Hydro-Consulting\SCOUT F5\7- Figures\GIS\Figure\_4\_Map\_07012025.mxd



**GROUNDWATER GRADIENT MAP**  
DEVON ENERGY  
DEVON DICKINSON WW  
LEA COUNTY, NEW MEXICO  
32.042724° -103.158525°



**New Tech Global Environmental, LLC**  
911 Regional Park Drive  
Houston, Texas 77060  
T - 281.872.9300  
F - 281.872.4521  
Web: www.ntgenviroinmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983
3. Contour Intervals = 0.25 ft
4. Elevation in feet
5. Gauged 05/28/2025

DRAWING NUMBER:

**FIGURE 4**

SHEET NUMBER:

**1 of 1**



Document Path: P:\2023 PROJECTS\Hydro-Cont\RS\SCOUT F5\7- Figures\GIS\Figure\_5\_ConcentrationMap\_07012025.mxd



**GROUNDWATER CONCENTRATION MAP**  
 DEVON ENERGY  
 DEVON DICKINSON WW  
 LEA COUNTY, NEW MEXICO  
 32.042724° -103.158525°

SCALE: AS SHOWN    DATE: 07/01/2025    PROJECT #: 237796



**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntgenviroinmental.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983
3. Results in mg/L

DRAWING NUMBER:

**FIGURE 5**

SHEET NUMBER:

**1 of 1**

## TABLES

---

**Table 1**  
**Groundwater Gauging Data and Corrected Groundwater Depth**  
**Devon Energy**  
**Dickinson Ranch**  
**Lea County, New Mexico**

Sample ID	Gauging Date	Top of Casing (ft)	Measured Depth To Groundwater (ft)	Measured Depth To LNAPL (ft)	Measured Thickness of LNAPL (ft)	Corrected Groundwater Depth (ft)
MW-6A	02/03/25	3,794.82	79.70	0.00	0.00	3,715.12
	05/28/25	3,794.82	80.04	0.00	0.00	3,714.78
MW-South-A	02/03/25	3,794.81	80.00	0.00	0.00	3,714.81
	05/28/25	3,794.81	80.43	0.00	0.00	3,714.38
MW-North-A	02/03/25	3,795.99	81.47	0.00	0.00	3,714.52
	05/28/25	3,795.99	81.82	0.00	0.00	3,714.17



**Table 2**  
**Groundwater Analytical Results**  
**Devon Energy**  
**Dickinson Ranch**  
**Lea County, New Mexico**

Sample ID	Date	Benzene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylenes (mg/L)	Total BTEX (mg/L)	Chloride (mg/L)
MW-6-A	02/03/25	<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	<b>63.5</b>
	05/28/25	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<b>87.6</b>
MW-South-A	02/03/25	<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	<b>74.1</b>
	05/28/25	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<b>101.0</b>
MW-North-A	02/03/25	<0.00100	<0.00100	<0.00100	<0.0100	<0.0100	<b>98.6</b>
	05/28/25	<0.00100	<0.00100	<0.00100	<0.00200	<0.00100	<b>150.0</b>
<b>Regulatory Limits (mg/kg)</b>		<b>0.005</b>	<b>0.7</b>	<b>1</b>	<b>0.62</b>	<b>NA</b>	<b>250</b>

 - exceeds regulatory limits

mg/kg - milligram per kilogram

TPH- total petroleum hydrocarbons

**ATTACHMENT A: LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS**



Environment Testing

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

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Gordon Banks  
NT Global

701 Tradewinds Blvd  
Midland, Texas 79706

Generated 6/4/2025 11:38:28 AM

## JOB DESCRIPTION

Dickinson WW  
Lea CO, NM

## JOB NUMBER

820-19155-1

Eurofins Lubbock  
6701 Aberdeen Ave.  
Suite 8  
Lubbock TX 79424



# Eurofins Lubbock

## Job Notes

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

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

## Authorization



Generated  
6/4/2025 11:38:28 AM

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

Client: NT Global  
Project/Site: Dickinson WW

Laboratory Job ID: 820-19155-1  
SDG: Lea CO, NM

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	3
Definitions/Glossary . . . . .	4
Case Narrative . . . . .	5
Client Sample Results . . . . .	6
Surrogate Summary . . . . .	8
QC Sample Results . . . . .	9
QC Association Summary . . . . .	11
Lab Chronicle . . . . .	12
Certification Summary . . . . .	13
Method Summary . . . . .	14
Sample Summary . . . . .	15
Chain of Custody . . . . .	16
Receipt Checklists . . . . .	18

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

Definitions/Glossary

Client: NT Global  
Project/Site: Dickinson WW

Job ID: 820-19155-1  
SDG: Lea CO, NM

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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



## Case Narrative

Client: NT Global  
Project: Dickinson WW

Job ID: 820-19155-1

**Job ID: 820-19155-1**

**Eurofins Lubbock**

### Job Narrative 820-19155-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 5/29/2025 4:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 10.6°C.

#### GC/MS VOA

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

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 880-111426 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Eurofins Lubbock

## Client Sample Results

Client: NT Global  
Project/Site: Dickinson WW

Job ID: 820-19155-1  
SDG: Lea CO, NM

Client Sample ID: MW-N-A

Lab Sample ID: 820-19155-1

Date Collected: 05/28/25 12:00

Matrix: Water

Date Received: 05/29/25 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			06/02/25 23:49	1
Toluene	<0.00100	U	0.00100		mg/L			06/02/25 23:49	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			06/02/25 23:49	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			06/02/25 23:49	1
o-Xylene	<0.00100	U	0.00100		mg/L			06/02/25 23:49	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			06/02/25 23:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		63 - 144		06/02/25 23:49	1
4-Bromofluorobenzene (Surr)	96		74 - 124		06/02/25 23:49	1
Dibromofluoromethane (Surr)	103		75 - 131		06/02/25 23:49	1
Toluene-d8 (Surr)	93		80 - 120		06/02/25 23:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/L			06/02/25 23:49	1
Total BTEX	<0.00200	U	0.00200		mg/L			06/02/25 23:49	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		2.50		mg/L			06/04/25 01:32	5

Client Sample ID: MW-S-A

Lab Sample ID: 820-19155-2

Date Collected: 05/28/25 17:00

Matrix: Water

Date Received: 05/29/25 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			06/03/25 00:09	1
Toluene	<0.00100	U	0.00100		mg/L			06/03/25 00:09	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			06/03/25 00:09	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			06/03/25 00:09	1
o-Xylene	<0.00100	U	0.00100		mg/L			06/03/25 00:09	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			06/03/25 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		63 - 144		06/03/25 00:09	1
4-Bromofluorobenzene (Surr)	95		74 - 124		06/03/25 00:09	1
Dibromofluoromethane (Surr)	102		75 - 131		06/03/25 00:09	1
Toluene-d8 (Surr)	94		80 - 120		06/03/25 00:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/L			06/03/25 00:09	1
Total BTEX	<0.00200	U	0.00200		mg/L			06/03/25 00:09	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		2.50		mg/L			06/04/25 01:46	5

Eurofins Lubbock

## Client Sample Results

Client: NT Global  
Project/Site: Dickinson WW

Job ID: 820-19155-1  
SDG: Lea CO, NM

Client Sample ID: MW-6-A

Lab Sample ID: 820-19155-3

Date Collected: 05/28/25 15:00

Matrix: Water

Date Received: 05/29/25 16:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			06/03/25 00:30	1
Toluene	<0.00100	U	0.00100		mg/L			06/03/25 00:30	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			06/03/25 00:30	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			06/03/25 00:30	1
o-Xylene	<0.00100	U	0.00100		mg/L			06/03/25 00:30	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			06/03/25 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		06/03/25 00:30	1
4-Bromofluorobenzene (Surr)	94		74 - 124		06/03/25 00:30	1
Dibromofluoromethane (Surr)	104		75 - 131		06/03/25 00:30	1
Toluene-d8 (Surr)	94		80 - 120		06/03/25 00:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/L			06/03/25 00:30	1
Total BTEX	<0.00200	U	0.00200		mg/L			06/03/25 00:30	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	87.6		2.50		mg/L			06/04/25 02:27	5



Surrogate Summary

Client: NT Global  
Project/Site: Dickinson WW

Job ID: 820-19155-1  
SDG: Lea CO, NM

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(63-144)	(74-124)	(75-131)	(80-120)
820-19155-1	MW-N-A	96	96	103	93
820-19155-2	MW-S-A	95	95	102	94
820-19155-3	MW-6-A	97	94	104	94
LCS 860-239654/3	Lab Control Sample	91	94	105	92
LCSD 860-239654/4	Lab Control Sample Dup	91	93	105	91
MB 860-239654/9	Method Blank	97	95	105	94
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
DBFM = Dibromofluoromethane (Surr)					
TOL = Toluene-d8 (Surr)					

## QC Sample Results

Client: NT Global  
Project/Site: Dickinson WW

Job ID: 820-19155-1  
SDG: Lea CO, NM

## Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 860-239654/9

Matrix: Water

Analysis Batch: 239654

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00100	U	0.00100		mg/L			06/02/25 23:28	1
Toluene	<0.00100	U	0.00100		mg/L			06/02/25 23:28	1
Ethylbenzene	<0.00100	U	0.00100		mg/L			06/02/25 23:28	1
m,p-Xylenes	<0.00200	U	0.00200		mg/L			06/02/25 23:28	1
o-Xylene	<0.00100	U	0.00100		mg/L			06/02/25 23:28	1
Xylenes, Total	<0.00200	U	0.00200		mg/L			06/02/25 23:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		63 - 144		06/02/25 23:28	1
4-Bromofluorobenzene (Surr)	95		74 - 124		06/02/25 23:28	1
Dibromofluoromethane (Surr)	105		75 - 131		06/02/25 23:28	1
Toluene-d8 (Surr)	94		80 - 120		06/02/25 23:28	1

Lab Sample ID: LCS 860-239654/3

Matrix: Water

Analysis Batch: 239654

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.0500	0.04703		mg/L		94	75 - 125
Toluene	0.0500	0.04520		mg/L		90	75 - 130
Ethylbenzene	0.0500	0.04643		mg/L		93	75 - 125
m,p-Xylenes	0.0500	0.04545		mg/L		91	75 - 125
o-Xylene	0.0500	0.04515		mg/L		90	75 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 144
4-Bromofluorobenzene (Surr)	94		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
Toluene-d8 (Surr)	92		80 - 120

Lab Sample ID: LCSD 860-239654/4

Matrix: Water

Analysis Batch: 239654

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.0500	0.04621		mg/L		92	75 - 125	2	25
Toluene	0.0500	0.04425		mg/L		88	75 - 130	2	25
Ethylbenzene	0.0500	0.04612		mg/L		92	75 - 125	1	25
m,p-Xylenes	0.0500	0.04521		mg/L		90	75 - 125	1	25
o-Xylene	0.0500	0.04501		mg/L		90	75 - 125	0	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		63 - 144
4-Bromofluorobenzene (Surr)	93		74 - 124
Dibromofluoromethane (Surr)	105		75 - 131
Toluene-d8 (Surr)	91		80 - 120

Eurofins Lubbock

## QC Sample Results

Client: NT Global  
Project/Site: Dickinson WW

Job ID: 820-19155-1  
SDG: Lea CO, NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-111426/3

Matrix: Water

Analysis Batch: 111426

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.500	U	0.500		mg/L			06/03/25 23:43	1

Lab Sample ID: LCS 880-111426/4

Matrix: Water

Analysis Batch: 111426

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	24.91		mg/L		100	90 - 110

Lab Sample ID: LCSD 880-111426/5

Matrix: Water

Analysis Batch: 111426

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	24.96		mg/L		100	90 - 110	0	20

Lab Sample ID: 880-58855-B-1 MS

Matrix: Water

Analysis Batch: 111426

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	75.5	F1	25.0	97.80	F1	mg/L		89	90 - 110

Lab Sample ID: 880-58855-B-1 MSD

Matrix: Water

Analysis Batch: 111426

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	75.5	F1	25.0	97.94		mg/L		90	90 - 110	0	20

Eurofins Lubbock

## QC Association Summary

Client: NT Global  
Project/Site: Dickinson WW

Job ID: 820-19155-1  
SDG: Lea CO, NM

## GC/MS VOA

## Analysis Batch: 239654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19155-1	MW-N-A	Total/NA	Water	8260D	
820-19155-2	MW-S-A	Total/NA	Water	8260D	
820-19155-3	MW-6-A	Total/NA	Water	8260D	
MB 860-239654/9	Method Blank	Total/NA	Water	8260D	
LCS 860-239654/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 860-239654/4	Lab Control Sample Dup	Total/NA	Water	8260D	

## Analysis Batch: 240118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19155-1	MW-N-A	Total/NA	Water	Total BTEX	
820-19155-2	MW-S-A	Total/NA	Water	Total BTEX	
820-19155-3	MW-6-A	Total/NA	Water	Total BTEX	

## HPLC/IC

## Analysis Batch: 111426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
820-19155-1	MW-N-A	Total/NA	Water	300.0	
820-19155-2	MW-S-A	Total/NA	Water	300.0	
820-19155-3	MW-6-A	Total/NA	Water	300.0	
MB 880-111426/3	Method Blank	Total/NA	Water	300.0	
LCS 880-111426/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-111426/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-58855-B-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-58855-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	



Lab Chronicle

Client: NT Global  
Project/Site: Dickinson WW

Job ID: 820-19155-1  
SDG: Lea CO, NM

Client Sample ID: MW-N-A  
Date Collected: 05/28/25 12:00  
Date Received: 05/29/25 16:30

Lab Sample ID: 820-19155-1  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	239654	06/02/25 23:49	A1S	EET HOU
Total/NA	Analysis	Total BTEX		1			240118	06/02/25 23:49	KLV	EET HOU
Total/NA	Analysis	300.0		5	10 mL	10 mL	111426	06/04/25 01:32	CH	EET MID

Client Sample ID: MW-S-A  
Date Collected: 05/28/25 17:00  
Date Received: 05/29/25 16:30

Lab Sample ID: 820-19155-2  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	239654	06/03/25 00:09	A1S	EET HOU
Total/NA	Analysis	Total BTEX		1			240118	06/03/25 00:09	KLV	EET HOU
Total/NA	Analysis	300.0		5	10 mL	10 mL	111426	06/04/25 01:46	CH	EET MID

Client Sample ID: MW-6-A  
Date Collected: 05/28/25 15:00  
Date Received: 05/29/25 16:30

Lab Sample ID: 820-19155-3  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	5 mL	5 mL	239654	06/03/25 00:30	A1S	EET HOU
Total/NA	Analysis	Total BTEX		1			240118	06/03/25 00:30	KLV	EET HOU
Total/NA	Analysis	300.0		5	10 mL	10 mL	111426	06/04/25 02:27	CH	EET MID

Laboratory References:

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

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

Accreditation/Certification Summary

Client: NT Global  
Project/Site: Dickinson WW

Job ID: 820-19155-1  
SDG: Lea CO, NM

Laboratory: Eurofins Houston

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215	07-01-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
Total BTEX		Water	Total BTEX

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

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

Method Summary

Client: NT Global  
Project/Site: Dickinson WW

Job ID: 820-19155-1  
SDG: Lea CO, NM

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET HOU
Total BTEX	Total BTEX Calculation	TAL SOP	EET HOU
300.0	Anions, Ion Chromatography	EPA	EET MID
5030C	Purge and Trap	SW846	EET HOU

Protocol References:

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

Laboratory References:

- EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
- EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: NT Global  
Project/Site: Dickinson WW

Job ID: 820-19155-1  
SDG: Lea CO, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
820-19155-1	MW-N-A	Water	05/28/25 12:00	05/29/25 16:30
820-19155-2	MW-S-A	Water	05/28/25 17:00	05/29/25 16:30
820-19155-3	MW-6-A	Water	05/28/25 15:00	05/29/25 16:30

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





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

**Chain of Custody Record**



Environment Testing

6701 Aberdeen Ave, Suite 8

Lubbock, TX 79424

Phone: 806-794-1296

**Client Information (Sub Contract Lab)**

Client Contact

N/A

Kramer Jessica

N/A

820-10761 1

Shipping/Receiving

N/A

Jessica.Kramer@et.eurofins.com

State of Origin: Texas

Page 1 of 1

Company: Eurofins Environment Testing South Cent

Due Date Requested: 6/4/2025

Accreditations Required (See note): NELAP - Texas

Job #: 820-19155-1

Address: 4145 Greenbriar Dr

TAT Requested (days):

Analysis Requested

Preservation Codes:

City: Stafford

N/A

State, Zip: TX, 77417

PO #:

Field Filtered Sample (Yes or No)

Other

Phone: 281-240-4200(Tel)

N/A

Perform MS/MSD (Yes or No)

N/A

Email: N/A

W/O #:

Total\_BTEX

Special Instructions/Note:

Project Name: Dickinson WW

Project #:

8260D/6030C BTEX

Total Number of containers

SSOW#: N/A

SSOW#:

8260D/6030C BTEX

5

Site: N/A

Site:

5

Sample Identification - Client ID (Lab ID)

Sample Date

Sample Time

Sample Type (C=Comp, G=grab)

Matrix (W=water, S=solid, O=other, A=air)

Preservation Code:

Field Filtered Sample (Yes or No)

Perform MS/MSD (Yes or No)

Total\_BTEX

8260D/6030C BTEX

Total Number of containers

Special Instructions/Note:

MM-N-A (820-19155-1)

5/28/25

12:00 Central

G

Water

X

X

X

X

X

X

X

X

MM-S-A (820-19155-2)

5/28/25

17:00 Central

G

Water

X

X

X

X

X

X

X

X

MM-E-A (820-19155-3)

5/28/25

15:00 Central

G

Water

X

X

X

X

X

X

X

X

Empty (for Relinquished by)

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/Time:

Company

Relinquished by:

Date:

Time:

Company

Received by:

Date/Time:

Company

Received by:

Date/

## Login Sample Receipt Checklist

Client: NT Global

Job Number: 820-19155-1

SDG Number: Lea CO, NM

Login Number: 19155

List Number: 1

Creator: Guillen, Kyrstin

List Source: Eurofins Lubbock

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

## Login Sample Receipt Checklist

Client: NT Global

Job Number: 820-19155-1

SDG Number: Lea CO, NM

Login Number: 19155

List Number: 2

Creator: Grandits, Corey

List Source: Eurofins Houston

List Creation: 06/02/25 10:47 AM

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

Login Sample Receipt Checklist

Client: NT Global

Job Number: 820-19155-1

SDG Number: Lea CO, NM

Login Number: 19155

List Number: 3

Creator: Vasquez, Julisa

List Source: Eurofins Midland

List Creation: 06/04/25 09:23 AM

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

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 481943

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 481943
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
shanna.smith	Review of the 2025 Q2 Groundwater Monitoring Report for Historic Dickinson Tank Battery Release: content satisfactory 1. Continue to conduct groundwater sampling as prescribed for BTEX and Chloride on a quarterly calendar schedule. 2. Submit the 2025 Q3 groundwater monitoring report to OCD no later than August 1, 2025.	8/25/2025