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

April 8, 2025

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

**Re: 2025 Q1 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 Q1 Groundwater Monitoring Report for submittal to the New Mexico Oil Conservation Division (NMOCD) in Albuquerque, New Mexico. This report presents the 2025 first (1st) 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, Ethylbenze, 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 due to their proximity to the excavation. In 2006, the NMOCD granted closure of the soil 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 plugged and abandoned.

## 3. Monitor Well Abandonment and Reinstallation

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 a deeper interval, log, and sample the soils. See Appendix A for attached email correspondence.

On December 2, 2024, NTGE along with White Drilling (White) were onsite to plug and abandon monitor wells MW-6, MW-North, and MW-South. The surface casing for each of the wells were removed and the wells were over drilled to remove the casing. Upon completion of the removal of the well casing, the wells were tremie grouted with bentonite slurry to the surface. See Appendix B for well plugging reports.

On December 3, 2024, NTGE along with White were onsite to install monitor wells MW-6A, MW-South-A and MW-North-A. The wells were drilled utilizing an air rotary rig to a depth of 100 feet below ground surface (bgs) with soil samples collected every five (5) feet bgs utilizing a split spoon sampler. The soil samples were logged and field screened with a photoionization detector (PID) meter. Select samples with highest PID readings at three (3) distinct intervals (0 to 25 ft, 26 to 65 ft, 65 ft to depth to groundwater) were submitted to the Eurofins Laboratories in Midland, Texas for analysis of total petroleum hydrocarbons (TPH) by EPA method 8015M, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8021B and chlorides by EPA method 300.0. The split spoon was decontaminated between samples with Alconox© in deionized water followed by a deionized water rinse. Analytical results indicated that all soil analysis were below the NMOCD regulatory standards for groundwater encountered at a depth of 51 to 100 ft bgs. See Table 1 for analytical results and Appendix C for Laboratory Analytical Reports.

Upon completion of the soil sampling, the well was reentered and drilled with a 6 ¼' bit to 100 ft bgs. Afterwards, the three (3) wells were installed with thirty (30) ft of 0.020' slotted schedule 40 PVC from the base to 70 ft bgs. From 70 ft bgs to 2 ft above the surface blank schedule 40 PVC piping was installed. The wells were then sanded from base of well to 68 ft bgs with 8/16 sand. Bentonite slurry mix was then installed from 68 ft bgs to 2 ft bgs and completed to the surface with concrete grout. Each of the wells was completed at the surface with a steel monument with four (4) ft by four (4) ft concrete pad. Groundwater was encountered at the site at approximately 77 ft bgs. See Appendix D for Soil Boring Logs and Monitor Well Completion Diagrams. See Appendix E for Site Photographs.

The lithology of the three monitor wells is similar. From surface to approximately 1 ½ feet bgs is brown clayey sand. From 1 ½ feet bgs to approximately 18 to 20 ft bgs is buff limestone. From approximately 18 to 20 ft bgs to the terminus of the borings at 100 ft bgs the soils are light brown fine grain sand.

## 4. Groundwater Monitoring and Sampling Procedures

NTGE was onsite to complete the groundwater gauging and sampling event on February 3, 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. A minimum of three (3) well volumes (or wells bailed dry) were purged from each of the monitor wells utilizing a new polyethylene bailer with the purge water placed in onsite fifty-five (55) gallon barrel steel drums. Once the groundwater was allowed to recharge to within 90% of the original gauging depth, samples were collected from each of the monitor wells with new disposal poly bailers and twine and placed into preserved laboratory provided sample containers. 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.

## 5. Groundwater Gradient

On February 3, 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.

## 6. Groundwater Sampling Results

Analytical results indicated all samples were below the NMWQCC standards for BTEX and chlorides. Chlorides in the groundwater ranged from 63.5 milligrams per Kilogram (mg/Kg) in MW-6-A to 98.6 mg/Kg in MW-North-A. The BTEX concentrations were all below laboratory method detection limits. See Table 3 for groundwater analytical results along with Figure 5, Groundwater Hydrocarbon Concentration Map. See Appendix C for laboratory analytical results.

## 7. 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**

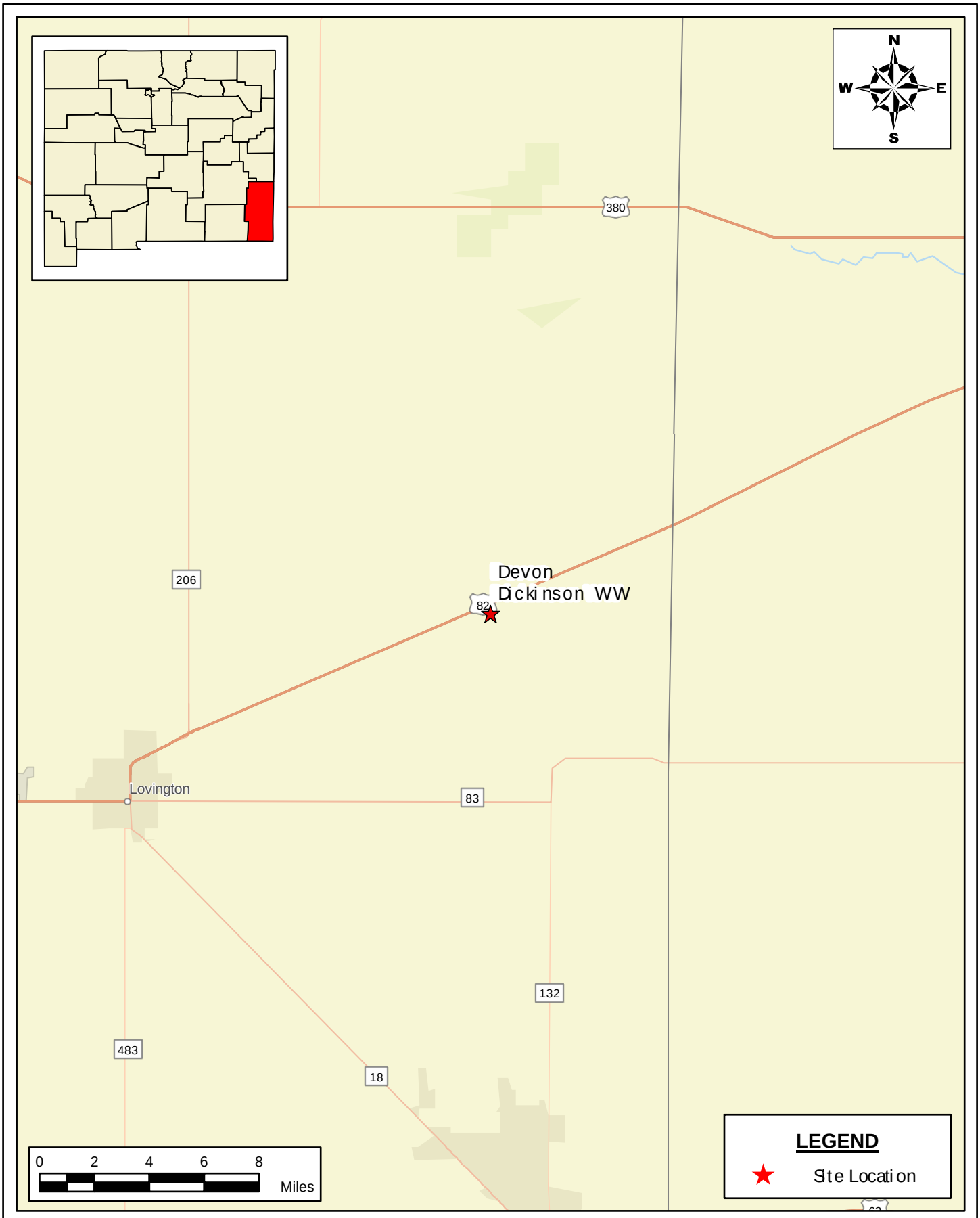
Jeff Kindley

Jeff Kindley, P.G
Senior Project Manager/Geologist

Attachments:

Figure 1 – Site Location Map
Figure 2 – Topographic Map
Figure 3 – Monitor Well Location Map
Figure 4 – Groundwater Gradient Map (February 3, 2025)
Figure 5 – Hydrocarbon Concentration Map (February 3, 2025)
Table 1 – Soil Analytical Results
Table 2 – Groundwater Elevation Data
Table 3 – Groundwater Analytical Data
Appendix A: - Email Correspondence
Appendix B: - Plugging Reports
Appendix C: - Laboratory Analytical Reports and Chain-of-Custody Documentation
Appendix D: - Soil Boring Logs and Monitor Well Completion Diagrams
Appendix E: - Site Photographs

# FIGURES




**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**

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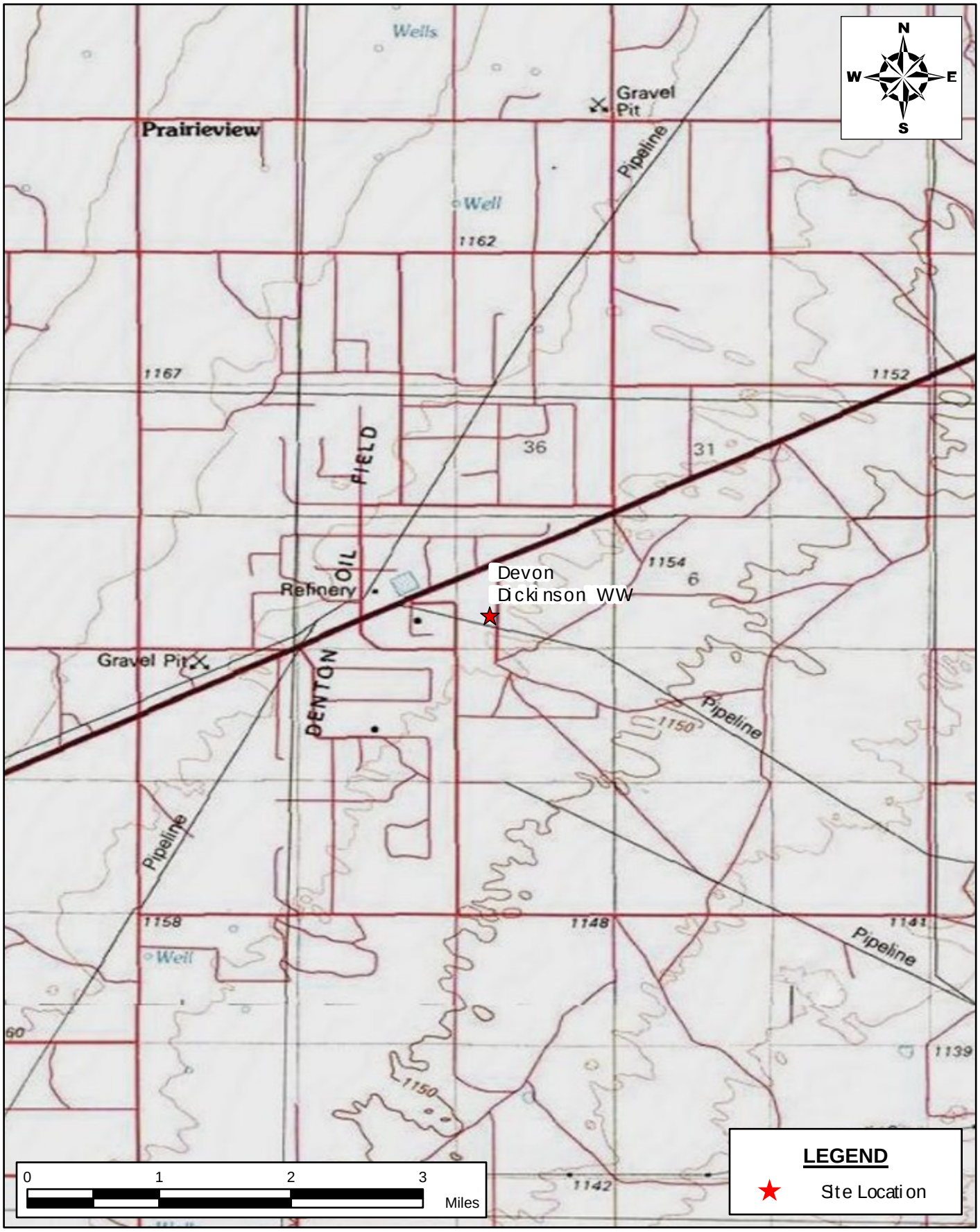


**TOPOGRAPHIC MAP**
**DEVON ENERGY**
DEVON DICKINSON WW
LEA COUNTY, NEW MEXICO
33.042724, -103.158525

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

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2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:
**FIGURE 2**
SHEET NUMBER:
**1 of 1**

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**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

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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**

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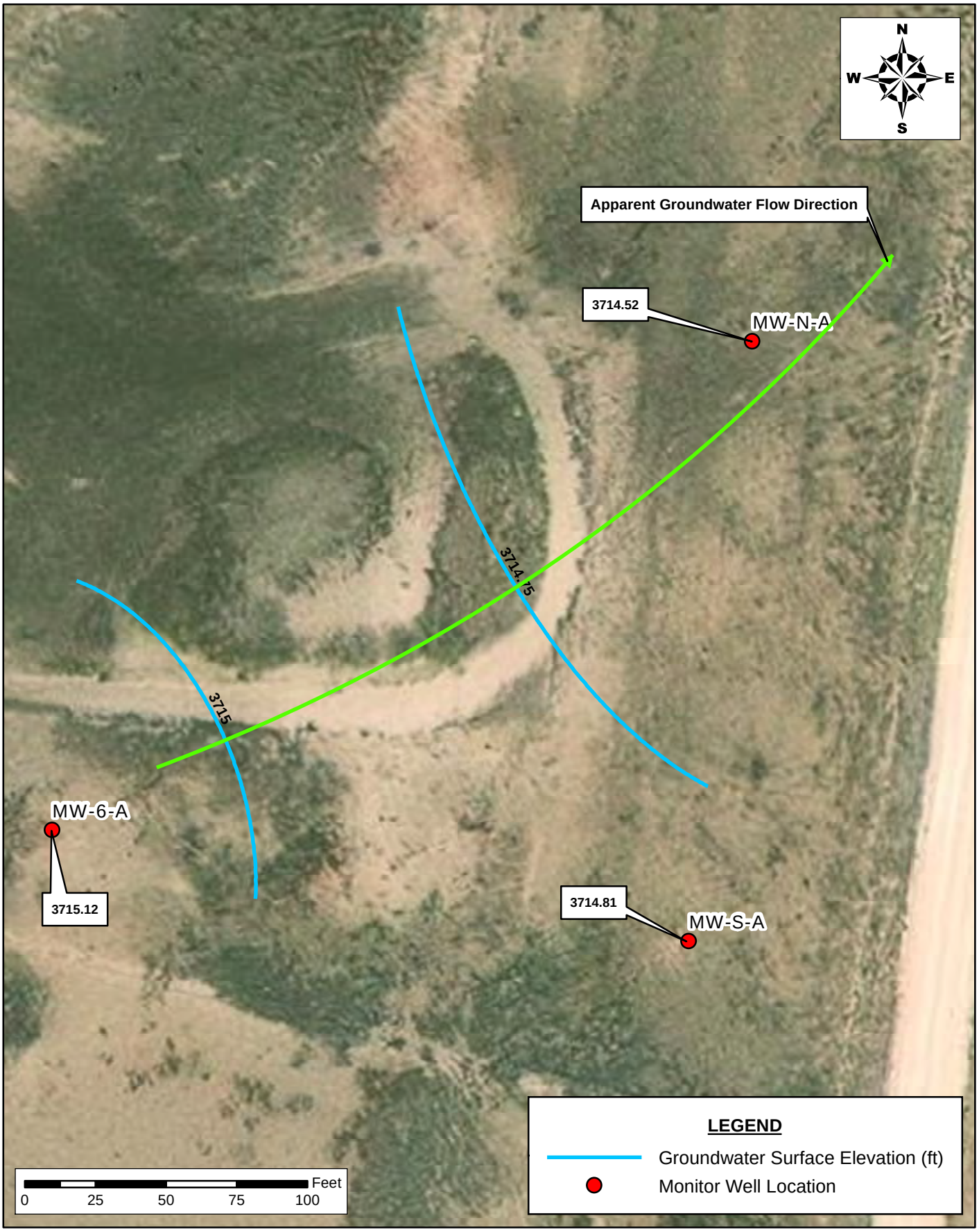


**GROUNDWATER GRADIENT MAP**
DEVON ENERGY
DEVON DICKINSON WW
LEA COUNTY, NEW MEXICO
32.042724° -103.158525°

SCALE: AS SHOWN | DATE: 04/29/2025 | PROJECT #: 237796

**New Tech Global Environmental, LLC**
911 Regional Park Drive
Houston, Texas 77060
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Web: www.ntgenvironmental.com

NOTES:
1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983
3. Conture Intervals equal 1 foot
4. Elevation in feet

DRAWING NUMBER:
**FIGURE 4**
SHEET NUMBER:
**1 of 1**

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**GROUNDWATER CONCENTRATION MAP**
**DEVON ENERGY**
DEVON DICKINSON WW
LEA COUNTY, TEXAS
33.042724, -103.158525

SCALE: As Shown | Date: 4/8/2025 | 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
3. Results in mg/L

DRAWING NUMBER:
**FIGURE 5**
SHEET NUMBER:
**1 of 1**

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# TABLES

**Table 1**
**Soil Boring Analytical Results**
**Devon Energy**
**Dickinson Ranch**
**Lea County, New Mexico**

| Sample ID | Date | Sample Depth (ft) | Benzene (mg/Kg) | Ethylbenzene (mg/Kg) | Toluene (mg/Kg) | Xylenes (mg/Kg) | Total BTEX (mg/Kg) | TPH (mg/Kg) | | | | | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | GRO (C6-C10) | DRO (C10-C28) | GRO + DRO (C6-C28) | MRO (C28-C35) | Total (C6-C35) | |
| MW-6A | 12/03/24 | 3-5' | <0.00202 | <0.00202 | <0.00202 | **0.00284** | <0.00403 | <49.7 | <49.7 | <49.7 | <49.7 | <49.7 | **1,040** |
| MW-6A | 12/03/24 | 28-30' | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | **300** |
| MW-6A | 12/03/24 | 68-70' | <0.00202 | <0.00202 | <0.00202 | <0.00404 | <0.00404 | <49.9 | <49.9 | <49.9 | <49.9 | <49.9 | **136** |
| MW-SouthA | 12/03/24 | 8-10' | <0.00200 | <0.00200 | <0.00200 | <0.00400 | <0.00400 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | **86** |
| MW-SouthA | 12/03/24 | 33-35' | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | **29** |
| MW-SouthA | 12/03/24 | 78-80' | <0.00202 | <0.00202 | <0.00202 | <0.00403 | <0.00403 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | **86.1** |
| MW-NorthA | 12/03/24 | 18-20' | <0.00200 | <0.00200 | <0.00200 | <0.00399 | <0.00399 | <49.8 | <49.8 | <49.8 | <49.8 | <49.8 | **90.3** |
| MW-NorthA | 12/03/24 | 63-65' | <0.00199 | <0.00199 | <0.00199 | <0.00398 | <0.00398 | <50.0 | <50.0 | <50.0 | <50.0 | <50.0 | **69.8** |
| MW-NorthA | 12/03/24 | 78-80' | <0.00201 | <0.00201 | <0.00201 | <0.00402 | <0.00402 | <49.7 | <49.7 | <49.7 | <49.7 | <49.7 | **102** |
| ***Regulatory Limits (mg/kg)*** | | | ***10*** | | | | ***50*** | | | ***1,000*** | | ***2,500*** | **10,000** |

- exceeds regulatory limits

mg/kg - milligram per kilogram

TPH- total petroleum hydrocarbons

# Table 2
## 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 | 79.7 | 0.00 | 0.00 | 3,715.12 |
| MW-South-A | 02/03/25 | 3,794.81 | 80.0 | 0.00 | 0.00 | 3,714.81 |
| MW-North-A | 02/03/25 | 3,795.99 | 81.47 | 0.00 | 0.00 | 3,714.52 |

# Table 3
## Groundwater Analytical Results
## Devon Energy
## Dickinson Ranch
## Lea County, New Mexico

| Sample ID | Date | Benzene (mg/Kg) | Ethylbenzene (mg/Kg) | Toluene (mg/Kg) | Xylenes (mg/Kg) | Total BTEX (mg/Kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|
| MW-6-A | 02/03/25 | <0.00100 | <0.00100 | <0.00100 | <0.0100 | <0.0100 | **63.5** |
| MW-South-A | 02/03/25 | <0.00100 | <0.00100 | <0.00100 | <0.0100 | <0.0100 | **74.1** |
| MW-North-A | 02/03/25 | <0.00100 | <0.00100 | <0.00100 | <0.0100 | <0.0100 | **98.6** |
| ***Regulatory Limits (mg/kg)*** | | **0.005** | **0.7** | **1** | **0.62** | **NA** | **250** |

- exceeds regulatory limits

mg/kg - milligram per kilogram

TPH- total petroleum hydrocarbons

# ATTACHMENT A: EMAIL CORRESPONDENCE

## Griswold, Jim, EMNRD

**From:** Griswold, Jim, EMNRD
**Sent:** Friday, March 22, 2013 2:38 PM
**To:** Chris Biagi
**Cc:** Wayne Price (wayneprice77@earthlink.net); M Griffin (whearth@msn.com)
**Subject:** Dickinson Remediation Project (1RP-432)

Chris,

I have reviewed the annual report and closure request dated February 23, 2013 submitted on your behalf by Wayne Price of Price LLC regarding the Dickinson remediation project (OCD remediation plan 1RP-432) in Lea County. While the OCD acknowledges that Devon has funded a substantial effort toward restoration at this location, the underlying groundwater remains contaminated with dissolved chlorides at concentrations above the regulatory standard. As such, the project cannot be closed at this time but a number of the monitoring wells can be taken out of service. Based upon my review of the available information and discussions with Mr. Price of today, the OCD approves the proper plugging of four monitoring wells; MW-1, -4, -5 and -7. Furthermore, the three remaining monitoring wells (MWs-6, -North, and – South) need to be placed on a quarterly monitoring schedule for depth-to-water and dissolved chloride measurement with reporting of all data to the OCD on at least an annual basis. As more data become available, we should engage in further discussions about this situation. Please keep a copy of this email in your files as no hardcopy will be sent. Thank you.

**Jim Griswold**
*Senior Hydrologist*
EMNRD/Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505.476.3465
email: jim.griswold@state.nm.us

**From:** Buchanan, Michael, EMNRD
**To:** Jeff Kindley
**Cc:** Bratcher, Michael, EMNRD
**Subject:** RE: [EXTERNAL] RE: Concerning 1RP-432 Devon Dickinson Ranch Groundwater Sampling
**Date:** Friday, January 19, 2024 11:48:26 AM

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Good morning, Jeff

Yes, please proceed with collecting split spoon samples and run for all constituents BTEX/TPH and Chlorides for the new monitoring wells, and upload the results into the online portal under [UF] GWA for future submissions.

Thank you,

**From:** Jeff Kindley <jkindley@ntglobal.com>
**Sent:** Friday, January 19, 2024 10:09 AM
**To:** Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
**Subject:** RE: [EXTERNAL] RE: Concerning 1RP-432 Devon Dickinson Ranch Groundwater Sampling

Mike,

Would you like for us to collect split spoon samples and run the soil samples for BTEX/TPH/Chlorides for the three new monitor wells proposed? I believe the soils were previously closed in the past with a liner installed and all the NMOCD was requiring was quarterly sampling for chlorides on the groundwater samples (we will still run BTEX/TPH on water samples since no sampling has been performed since 2015).

Thanks for your input.

**From:** Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
**Sent:** Tuesday, January 16, 2024 10:38 AM
**To:** Jeff Kindley <jkindley@ntglobal.com>
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
**Subject:** FW: [EXTERNAL] RE: Concerning 1RP-432 Devon Dickinson Ranch Groundwater Sampling

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Good morning, Jeff

Please proceed with further drilling each monitoring well (MW-6, MW-North, MW-South) to 100' and confirm groundwater is present to conduct sampling.

Thank you,

Jeff

**From:** Jeff Kindley <jkindley@ntglobal.com>
**Sent:** Monday, January 15, 2024 12:00 PM
**To:** Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
**Cc:** Ethan Sessums <ESessums@ntglobal.com>; Dale Woodall (dale.woodall@dvn.com) <Dale.Woodall@dvn.com>
**Subject:** [EXTERNAL] RE: Concerning 1RP-432 Devon Dickinson Ranch Groundwater Sampling

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Mr. Buchanan,

I was just checking to see if you have made a decision on whether we need to redrill the three wells at the site (see below) or if you would consider the site as dry and grant closure in which case we can plug existing dry wells?

Thanks for your help in this matter.

**Jeff Kindley, P.G.**
Senior Project Manager/Geologist | **NTG Environmental**
M: 432-967-6544 |jkindley@ntglobal.com
701 Tradewinds Blvd, Suite C
Midland, TX 79706

**From:** Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
**Sent:** Wednesday, November 29, 2023 5:12 PM
**To:** Jeff Kindley <jkindley@ntglobal.com>
**Subject:** Concerning 1RP-432 Devon Dickinson Ranch Groundwater Sampling

CAUTION: This email originated from outside your organization. Exercise caution when opening attachments or clicking links, especially from unknown senders.

Good afternoon, Mr. Kindley

I am currently in review of 1RP-432 Devon Dickinson Ranch concerning the low water volume in all three wells from well level gauging for the following wells:

MW-6 had a measured depth to groundwater of (71.58') and depth to bottom of well (71.66') for a measured groundwater column of 0.08'.
MW-North had a measured depth to groundwater of (79.23') and depth to bottom of well (79.40') for a measured groundwater column of 0.17'.
MW-South had a measured depth to groundwater of (dry) and depth to bottom of well (79.54') for measured groundwater column of dry.

I will be out of office for the next two days and will have an answer to you on whether to drill to 100', like you have recommended, or what the next option is next week. If you have other question or concerns, please feel free to reach out to me.

Thank you,

**Mike Buchanan** • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE, Suite 260 | Albuquerque, NM 87113
505.490.0798 | michael.buchanan@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd



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# ATTACHMENT B: PLUGGING REPORT

# PLUGGING RECORD

**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: Unknown (MW-N)

Well owner: NTG Environmental on Behalf of Devon Energy Corporatic Phone No.: 432-230-0920

Mailing address: 701 Tradewinds Blvd., Suite C

City: Midland State: Texas Zip code: 79706

## II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: White Drilling Company, Inc.

2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2026

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William A. Adkins

4) Date well plugging began: 12/2/2024 Date well plugging concluded: 12/2/2024

5) GPS Well Location: Latitude: 33 deg, 02 min, 34.8 sec
Longitude: -103 deg, 09 min, 29.3 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 76 ft below ground level (bgl), by the following manner: Steel Tape

7) Static water level measured at initiation of plugging: Dry ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 11/21/2024

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

**For each interval plugged, describe within the following columns:**

| Depth (ft bgl) | Plugging Material Used (include any additives used) | Volume of Material Placed (gallons) | Theoretical Volume of Borehole/ Casing (gallons) | Placement Method (tremie pipe, other) | Comments ("casing perforated first", "open annular space also plugged", etc.) |
|---|---|---|---|---|---|
| 0<br>76 | Type 1 Cement<br>Bentonite Slurry | 12.38 Gal | | | |

| MULTIPLY | | BY | | AND OBTAIN |
|---|---|---|---|---|
| cubic feet | x | 7.4805 | = | gallons |
| cubic yards | x | 201.97 | = | gallons |

**III. SIGNATURE:**

I, John White, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

12/10/2024
Date

Version: September 8, 2009
Page 2 of 2

# PLUGGING RECORD

**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: Unknown (MW-5)

Well owner: NTG Environmental on Behalf of Devon Energy Corporatic Phone No.: 432-230-0920

Mailing address: 701 Tradewinds Blvd., Suite C

City: Midland State: Texas Zip code: 79706

## II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: White Drilling Company, Inc.

2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2026

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William A. Adkins

4) Date well plugging began: 12/2/2024 Date well plugging concluded: 12/2/2024

5) GPS Well Location: Latitude: 33 deg, 02 min, 32.7 sec
Longitude: -103 deg, 09 min, 29.3 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 76.72 ft below ground level (bgl), by the following manner: Steel Tape

7) Static water level measured at initiation of plugging: Dry ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 11/21/2024

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

**For each interval plugged, describe within the following columns:**

| Depth (ft bgl) | Plugging Material Used (include any additives used) | Volume of Material Placed (gallons) | Theoretical Volume of Borehole/ Casing (gallons) | Placement Method (tremie pipe, other) | Comments ("casing perforated first", "open annular space also plugged", etc.) |
|---|---|---|---|---|---|
| 0<br>7612.5 | Type 1 Cement<br>Bentonite Slurry | 12.50 Gal | | | |

| MULTIPLY | | BY | | AND OBTAIN |
|---|---|---|---|---|
| cubic feet | x | 7.4805 | = | gallons |
| cubic yards | x | 201.97 | = | gallons |

**III. SIGNATURE:**

I, John White, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

12/10/2024
Date

Version: September 8, 2009
Page 2 of 2

# PLUGGING RECORD

**NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC**

## I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: Unknown (MW-6)

Well owner: NTG Environmental on Behalf of Devon Energy Corporatic Phone No.: 432-230-0920

Mailing address: 701 Tradewinds Blvd., Suite C

City: Midland State: Texas Zip code: 79706

## II. WELL PLUGGING INFORMATION:

1) Name of well drilling company that plugged well: White Drilling Company, Inc.

2) New Mexico Well Driller License No.: WD-1456 Expiration Date: 09/30/2026

3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s): William A. Adkins

4) Date well plugging began: 12/2/2024 Date well plugging concluded: 12/2/2024

5) GPS Well Location: Latitude: 33 deg, 02 min, 32.9 sec
Longitude: -103 deg, 09 min, 31.9 sec, WGS 84

6) Depth of well confirmed at initiation of plugging as: 68 ft below ground level (bgl), by the following manner: Steel Tape

7) Static water level measured at initiation of plugging: Dry ft bgl

8) Date well plugging plan of operations was approved by the State Engineer: 11/21/2024

9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

10) Log of Plugging Activities - Label vertical scale with depths, and indicate separate plugging intervals with horizontal lines as necessary to illustrate material or methodology changes. Attach additional pages if necessary.

**For each interval plugged, describe within the following columns:**

| Depth (ft bgl) | Plugging Material Used (include any additives used) | Volume of Material Placed (gallons) | Theoretical Volume of Borehole/ Casing (gallons) | Placement Method (tremie pipe, other) | Comments ("casing perforated first", "open annular space also plugged", etc.) |
|---|---|---|---|---|---|
| 0<br>68 | Type 1 Cement<br>Bentonite Slurry | 11.08 Gal | | | |

| MULTIPLY | | BY | | AND OBTAIN |
|---|---|---|---|---|
| cubic feet | x | 7.4805 | = | gallons |
| cubic yards | x | 201.97 | = | gallons |

**III. SIGNATURE:**

I, John White, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

12/10/2024
Date

Version: September 8, 2009
Page 2 of 2

# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

### 1. GENERAL AND WELL LOCATION

| OSE POD NO. (WELL NO.) | WELL TAG ID NO. | OSE FILE NO(S). |
|---|---|---|
| L-15789 Pod 3 (MW-S-A) | | L-15789 |

| WELL OWNER NAME(S) | PHONE (OPTIONAL) |
|---|---|
| NTG Environmental on Behalf of Devon Energy Corporation | 432-230-0920 |

| WELL OWNER MAILING ADDRESS | CITY | STATE | ZIP |
|---|---|---|---|
| 701 Tradewinds Blvd., Suite C | Midland | TX | 79706 |

| WELL LOCATION (FROM GPS) | DEGREES | MINUTES | SECONDS | |
|---|---|---|---|---|
| LATITUDE | 33 | 02 | 32.75 | N |
| LONGITUDE | 103 | 09 | 29.26 | W |

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Dickinson Ranch

### 2. DRILLING & CASING INFORMATION

| LICENSE NO. | NAME OF LICENSED DRILLER | NAME OF WELL DRILLING COMPANY |
|---|---|---|
| WD-1456 | John White | White Drilling Company, Inc. |

| DRILLING STARTED | DRILLING ENDED | DEPTH OF COMPLETED WELL (FT) | BORE HOLE DEPTH (FT) | DEPTH WATER FIRST ENCOUNTERED (FT) |
|---|---|---|---|---|
| 12/3/2024 | 12/4/2024 | 100.0 | | 77.45 |

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 77.45

DATE STATIC MEASURED:

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
|---|---|---|---|---|---|---|---|
| -2.5 | 70.0 | 7 7/8 | Sch. 40 PVC Riser | Threads | 4.0 | 1/4 | |
| 70.0 | 100.0 | 7 7/8 | Sch 40 PVC Screen | Threads | 4.0 | 1/4 | .020 |
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### 3. ANNULAR MATERIAL

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below) | AMOUNT (cubic feet) | METHOD OF PLACEMENT |
|---|---|---|---|---|---|
| 0.0 | 20.0 | 6.0 | Bentonite Grout | 3.92 | Tremie Pipe |
| 20.0 | 67.0 | 6.0 | Bentonite | 9.22 | Tremie Pipe |
| 67.0 | 100.0 | 6.0 | 8/16 Sand | 18 Sacks | Hand Mix |
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FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

| FILE NO. | POD NO. | TRN NO. |
|---|---|---|
| LOCATION | WELL TAG ID NO. | PAGE 1 OF 2 |

**4. HYDROGEOLOGIC LOG OF WELL**

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)** | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|---|---|---|---|---|---|
| 0.0 | 1.0 | 1.0 | Brown sandy clay | Y ✓ N | |
| 1.0 | 2.0 | 1.0 | Light brown limestone | Y ✓ N | |
| 2.0 | 18.0 | 16.0 | Caliche | Y ✓ N | |
| 18.0 | 38.0 | 20.0 | Light brown sandstone | Y ✓ N | |
| 38.0 | 48.0 | 10.0 | Tan/light brown sandstone | Y ✓ N | |
| 48.0 | 100.00 | 52.0 | Light brown sandstone w/streaks of brown sand/sandstone | ✓ Y N | |
| | | | | Y N | |
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| | | | | Y N | |

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

**5. TEST; RIG SUPERVISION**

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

**6. SIGNATURE**

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

John White — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

12/10/2024 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

| FILE NO. | POD NO. | TRN NO. |
|---|---|---|
| LOCATION | WELL TAG ID NO. | PAGE 2 OF 2 |

# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

### 1. GENERAL AND WELL LOCATION

| OSE POD NO. (WELL NO.) | WELL TAG ID NO. | OSE FILE NO(S). |
|---|---|---|
| L-15789 Pod 2 (MW-N-A) | | L-15789 |

| WELL OWNER NAME(S) | PHONE (OPTIONAL) |
|---|---|
| NTG Environmental on Behalf of Devon Energy Corporation | 432-230-0920 |

| WELL OWNER MAILING ADDRESS | CITY | STATE | ZIP |
|---|---|---|---|
| 701 Tradewinds Blvd., Suite C | Midland | TX | 79706 |

| WELL LOCATION (FROM GPS) | DEGREES | MINUTES | SECONDS | |
|---|---|---|---|---|
| LATITUDE | 33 | 02 | 34.81 | N |
| LONGITUDE | 103 | 09 | 29.25 | W |

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Dickinson Ranch

### 2. DRILLING & CASING INFORMATION

| LICENSE NO. | NAME OF LICENSED DRILLER | NAME OF WELL DRILLING COMPANY |
|---|---|---|
| WD-1456 | John White | White Drilling Company, Inc. |

| DRILLING STARTED | DRILLING ENDED | DEPTH OF COMPLETED WELL (FT) | BORE HOLE DEPTH (FT) | DEPTH WATER FIRST ENCOUNTERED (FT) |
|---|---|---|---|---|
| 12/3/2024 | 12/4/2024 | 100.0 | | 78.63 |

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 78.0

DATE STATIC MEASURED:

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
|---|---|---|---|---|---|---|---|
| -2.7 | 70.0 | 7 7/8 | Sch. 40 PVC Riser | Threads | 4.0 | 1/4 | |
| 70.0 | 100.0 | 7 7/8 | Sch 40 PVC Screen | Threads | 4.0 | 1/4 | .020 |
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### 3. ANNULAR MATERIAL

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below) | AMOUNT (cubic feet) | METHOD OF PLACEMENT |
|---|---|---|---|---|---|
| 0.0 | 19.0 | 6.0 | Bentonite Grout | 3.72 | Tremie Pipe |
| 19.0 | 67.0 | 6.0 | Bentonite | 9.42 | Tremie Pipe |
| 67.0 | 100.0 | 6.0 | 8/16 Sand | 17 Sacks | Hand Mix |
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FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

| FILE NO. | POD NO. | TRN NO. |
|---|---|---|
| LOCATION | WELL TAG ID NO. | PAGE 1 OF 2 |

**4. HYDROGEOLOGIC LOG OF WELL**

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)** | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|---|---|---|---|---|---|
| 0.0 | 1.5 | 1.5 | Brown sandy clay | Y ✓ N | |
| 1.5 | 2.0 | 0.5 | Limestone w/caliche | Y ✓ N | |
| 2.0 | 21.0 | 19.0 | Caliche | Y ✓ N | |
| 21.0 | 28.0 | 7.0 | Light brown sandstone | Y ✓ N | |
| 28.0 | 34.0 | 6.0 | Light tan sandstone/conglomerate w/limestone | Y ✓ N | |
| 34.0 | 78.0 | 44.0 | Light brown sandstone w/streaks of brown sand/sandstone | ✓ Y N | |
| 78.0 | 100.0 | 22.0 | Brown sandstone | ✓ Y N | |
| | | | | Y N | |
| | | | | Y N | |
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| | | | | Y N | |
| | | | | Y N | |
| | | | | Y N | |

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

**5. TEST; RIG SUPERVISION**

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

**6. SIGNATURE**

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

John White — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

12/10/2024 — DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

| FILE NO. | POD NO. | TRN NO. |
|---|---|---|
| LOCATION | WELL TAG ID NO. | PAGE 2 OF 2 |

# WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

### 1. GENERAL AND WELL LOCATION

| OSE POD NO. (WELL NO.) | WELL TAG ID NO. | OSE FILE NO(S). |
|---|---|---|
| L-15789 Pod 1 (MW-6-A) | | L-15789 |

| WELL OWNER NAME(S) | PHONE (OPTIONAL) |
|---|---|
| NTG Environmental on Behalf of Devon Energy Corporation | 432-230-0920 |

| WELL OWNER MAILING ADDRESS | CITY | STATE | ZIP |
|---|---|---|---|
| 701 Tradewinds Blvd., Suite C | Midland | TX | 79706 |

| WELL LOCATION (FROM GPS) | DEGREES | MINUTES | SECONDS | |
|---|---|---|---|---|
| LATITUDE | 33 | 02 | 32.93 | N |
| LONGITUDE | 103 | 09 | 31.91 | W |

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

Dickinson Ranch

### 2. DRILLING & CASING INFORMATION

| LICENSE NO. | NAME OF LICENSED DRILLER | NAME OF WELL DRILLING COMPANY |
|---|---|---|
| WD-1456 | John White | White Drilling Company, Inc. |

| DRILLING STARTED | DRILLING ENDED | DEPTH OF COMPLETED WELL (FT) | BORE HOLE DEPTH (FT) | DEPTH WATER FIRST ENCOUNTERED (FT) |
|---|---|---|---|---|
| 12/2/2024 | 12/4/2024 | 100.0 | | 77.0 |

COMPLETED WELL IS: ☐ ARTESIAN *add Centralizer info below ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): 77.0

DATE STATIC MEASURED:

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

CHECK HERE IF PITLESS ADAPTER IS INSTALLED ☐

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | BORE HOLE DIAM (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) | SLOT SIZE (inches) |
|---|---|---|---|---|---|---|---|
| -2.55 | 70.0 | 7 7/8 | Sch. 40 PVC Riser | Threads | 4.0 | 1/4 | |
| 70.0 | 100.0 | 7 7/8 | Sch 40 PVC Screen | Threads | 4.0 | 1/4 | .020 |
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### 3. ANNULAR MATERIAL

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below) | AMOUNT (cubic feet) | METHOD OF PLACEMENT |
|---|---|---|---|---|---|
| 0.0 | 20.0 | 6.0 | Bentonite Grout | 3.92 | Tremie Pipe |
| 20.0 | 67.0 | 6.0 | Bentonite | 9.22 | Tremie Pipe |
| 67.0 | 100.0 | 6.0 | 8/16 Sand | 18 Sacks | Hand Mix |
| | | | | | |
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FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

| FILE NO. | POD NO. | TRN NO. |
|---|---|---|
| LOCATION | WELL TAG ID NO. | PAGE 1 OF 2 |

**4. HYDROGEOLOGIC LOG OF WELL**

| DEPTH (feet bgl) FROM | DEPTH (feet bgl) TO | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)** | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm) |
|---|---|---|---|---|---|
| 0.0 | 1.0 | 1.0 | Brown sandy clay | Y ✓ N | |
| 1.0 | 18.0 | 17.0 | Caliche w/limestone | Y ✓ N | |
| 18.0 | 38.0 | 20.0 | Light brown sandstone | Y ✓ N | |
| 38.0 | 45.0 | 7.0 | Light tan sandstone | Y ✓ N | |
| 45.0 | 78.0 | 33.0 | Light brown sandstone w/streaks of brown sand/sandstone | ✓ Y N | |
| 78.0 | 100.0 | 22.0 | Brown sandstone | ✓ Y N | |
| | | | | Y N | |
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| | | | | Y N | |

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

**5. TEST; RIG SUPERVISION**

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

**6. SIGNATURE**

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

John White — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

12/10/2024 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 09/22/2022)

| FILE NO. | POD NO. | TRN NO. |
|---|---|---|
| LOCATION | WELL TAG ID NO. | PAGE 2 OF 2 |

# ATTACHMENT C: LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Gordon Banks
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Generated 2/10/2025 2:43:56 PM

## JOB DESCRIPTION

Dickinson WW
Lea Co, NM

## JOB NUMBER

820-17281-1

Eurofins Lubbock
6701 Aberdeen Ave.
Suite 8
Lubbock TX 79424

See page two for job notes and contact information.





my EOL

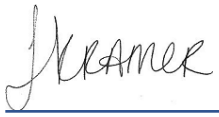
# Eurofins Lubbock

## 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



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

Client: NT Global
Project/Site: Dickinson WW

Laboratory Job ID: 820-17281-1
SDG: Lea Co, NM

# Table of Contents

# Definitions/Glossary

Client: NT Global
Project/Site: Dickinson WW

Job ID: 820-17281-1
SDG: Lea Co, NM

## Qualifiers

### GC/MS VOA

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

### HPLC/IC

| Qualifier | Qualifier Description |
|---|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| 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: 820-17281-1

## Job ID: 820-17281-1 Eurofins Lubbock

**Job Narrative**
**820-17281-1**

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 2/4/2025 11:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C.

**GC/MS VOA**
Method 8260D: The matrix spike (MS) recoveries for analytical batch 860-215131 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

# Client Sample Results

Client: NT Global
Project/Site: Dickinson WW

Job ID: 820-17281-1
SDG: Lea Co, NM

## Client Sample ID: MW-N-A

**Lab Sample ID: 820-17281-1**
**Date Collected: 02/03/25 05:00**
**Matrix: Water**
**Date Received: 02/04/25 11:40**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00100 | U F1 | 0.00100 | | mg/L | | | 02/06/25 22:25 | 1 |
| Toluene | <0.00100 | U F1 | 0.00100 | | mg/L | | | 02/06/25 22:25 | 1 |
| Ethylbenzene | <0.00100 | U F1 | 0.00100 | | mg/L | | | 02/06/25 22:25 | 1 |
| m,p-Xylenes | <0.0100 | U F1 | 0.0100 | | mg/L | | | 02/06/25 22:25 | 1 |
| o-Xylene | <0.00100 | U F1 | 0.00100 | | mg/L | | | 02/06/25 22:25 | 1 |
| Xylenes, Total | <0.0100 | U F1 | 0.0100 | | mg/L | | | 02/06/25 22:25 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *102* | | *63 - 144* | | *02/06/25 22:25* | *1* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *74 - 124* | | *02/06/25 22:25* | *1* |
| *Dibromofluoromethane (Surr)* | *101* | | *75 - 131* | | *02/06/25 22:25* | *1* |
| *Toluene-d8 (Surr)* | *95* | | *80 - 120* | | *02/06/25 22:25* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.0100 | U | 0.0100 | | mg/L | | | 02/06/25 22:25 | 1 |

### Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **98.6** | | 0.500 | | mg/L | | | 02/06/25 23:14 | 1 |

## Client Sample ID: MW-S-A

**Lab Sample ID: 820-17281-2**
**Date Collected: 02/03/25 05:30**
**Matrix: Water**
**Date Received: 02/04/25 11:40**

### 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 | | | 02/06/25 22:46 | 1 |
| Toluene | <0.00100 | U | 0.00100 | | mg/L | | | 02/06/25 22:46 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | | mg/L | | | 02/06/25 22:46 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | | mg/L | | | 02/06/25 22:46 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | | mg/L | | | 02/06/25 22:46 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | | mg/L | | | 02/06/25 22:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *101* | | *63 - 144* | | *02/06/25 22:46* | *1* |
| *4-Bromofluorobenzene (Surr)* | *97* | | *74 - 124* | | *02/06/25 22:46* | *1* |
| *Dibromofluoromethane (Surr)* | *105* | | *75 - 131* | | *02/06/25 22:46* | *1* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* | | *02/06/25 22:46* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.0100 | U | 0.0100 | | mg/L | | | 02/06/25 22:46 | 1 |

### Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **74.1** | | 0.500 | | mg/L | | | 02/06/25 23:36 | 1 |

# Client Sample Results

Client: NT Global
Project/Site: Dickinson WW

Job ID: 820-17281-1
SDG: Lea Co, NM

## Client Sample ID: MW-6-A

**Date Collected: 02/03/25 06:00**
**Date Received: 02/04/25 11:40**

## Lab Sample ID: 820-17281-3

**Matrix: Water**

### 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 | | | 02/06/25 23:06 | 1 |
| Toluene | <0.00100 | U | 0.00100 | | mg/L | | | 02/06/25 23:06 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | | mg/L | | | 02/06/25 23:06 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | | mg/L | | | 02/06/25 23:06 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | | mg/L | | | 02/06/25 23:06 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | | mg/L | | | 02/06/25 23:06 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *105* | | *63 - 144* | | *02/06/25 23:06* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *74 - 124* | | *02/06/25 23:06* | *1* |
| *Dibromofluoromethane (Surr)* | *103* | | *75 - 131* | | *02/06/25 23:06* | *1* |
| *Toluene-d8 (Surr)* | *98* | | *80 - 120* | | *02/06/25 23:06* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.0100 | U | 0.0100 | | mg/L | | | 02/06/25 23:06 | 1 |

### Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **63.5** | | 0.500 | | mg/L | | | 02/06/25 23:58 | 1 |

# Surrogate Summary

Client: NT Global
Project/Site: Dickinson WW

Job ID: 820-17281-1
SDG: Lea Co, NM

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

**Matrix: Water** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | | | |
|---|---|---|---|---|---|
| | | DCA | BFB | DBFM | TOL |
| Lab Sample ID | Client Sample ID | (63-144) | (74-124) | (75-131) | (80-120) |
| 820-17281-1 | MW-N-A | 102 | 91 | 101 | 95 |
| 820-17281-1 MS | MW-N-A | 97 | 91 | 100 | 99 |
| 820-17281-2 | MW-S-A | 101 | 97 | 105 | 99 |
| 820-17281-3 | MW-6-A | 105 | 93 | 103 | 98 |
| LCS 860-215131/3 | Lab Control Sample | 93 | 96 | 99 | 102 |
| LCSD 860-215131/4 | Lab Control Sample Dup | 95 | 96 | 100 | 100 |
| MB 860-215131/9 | Method Blank | 100 | 93 | 104 | 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: 820-17281-1
SDG: Lea Co, NM

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

**Lab Sample ID: MB 860-215131/9**
**Matrix: Water**
**Analysis Batch: 215131**

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00100 | U | 0.00100 | | mg/L | | | 02/06/25 22:05 | 1 |
| Toluene | <0.00100 | U | 0.00100 | | mg/L | | | 02/06/25 22:05 | 1 |
| Ethylbenzene | <0.00100 | U | 0.00100 | | mg/L | | | 02/06/25 22:05 | 1 |
| m,p-Xylenes | <0.0100 | U | 0.0100 | | mg/L | | | 02/06/25 22:05 | 1 |
| o-Xylene | <0.00100 | U | 0.00100 | | mg/L | | | 02/06/25 22:05 | 1 |
| Xylenes, Total | <0.0100 | U | 0.0100 | | mg/L | | | 02/06/25 22:05 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *100* | | *63 - 144* | | *02/06/25 22:05* | *1* |
| *4-Bromofluorobenzene (Surr)* | *93* | | *74 - 124* | | *02/06/25 22:05* | *1* |
| *Dibromofluoromethane (Surr)* | *104* | | *75 - 131* | | *02/06/25 22:05* | *1* |
| *Toluene-d8 (Surr)* | *94* | | *80 - 120* | | *02/06/25 22:05* | *1* |

**Lab Sample ID: LCS 860-215131/3**
**Matrix: Water**
**Analysis Batch: 215131**

**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 | 0.04986 | | mg/L | | 100 | 75 - 125 | | |
| Toluene | | | 0.0500 | 0.05135 | | mg/L | | 103 | 75 - 130 | | |
| Ethylbenzene | | | 0.0500 | 0.05092 | | mg/L | | 102 | 75 - 125 | | |
| m,p-Xylenes | | | 0.0500 | 0.04558 | | mg/L | | 91 | 75 - 125 | | |
| o-Xylene | | | 0.0500 | 0.04930 | | mg/L | | 99 | 75 - 125 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *93* | | *63 - 144* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *74 - 124* |
| *Dibromofluoromethane (Surr)* | *99* | | *75 - 131* |
| *Toluene-d8 (Surr)* | *102* | | *80 - 120* |

**Lab Sample ID: LCSD 860-215131/4**
**Matrix: Water**
**Analysis Batch: 215131**

**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 | 0.05075 | | mg/L | | 101 | 75 - 125 | 2 | 25 |
| Toluene | | | 0.0500 | 0.05177 | | mg/L | | 104 | 75 - 130 | 1 | 25 |
| Ethylbenzene | | | 0.0500 | 0.05149 | | mg/L | | 103 | 75 - 125 | 1 | 25 |
| m,p-Xylenes | | | 0.0500 | 0.04554 | | mg/L | | 91 | 75 - 125 | 0 | 25 |
| o-Xylene | | | 0.0500 | 0.04989 | | mg/L | | 100 | 75 - 125 | 1 | 25 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *95* | | *63 - 144* |
| *4-Bromofluorobenzene (Surr)* | *96* | | *74 - 124* |
| *Dibromofluoromethane (Surr)* | *100* | | *75 - 131* |
| *Toluene-d8 (Surr)* | *100* | | *80 - 120* |

# QC Sample Results

Client: NT Global
Project/Site: Dickinson WW

Job ID: 820-17281-1
SDG: Lea Co, NM

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

**Lab Sample ID: 820-17281-1 MS** — **Client Sample ID: MW-N-A**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 215131**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00100 | U F1 | 0.0500 | 0.002431 | F1 | mg/L | | 5 | 66 - 142 |
| Toluene | <0.00100 | U F1 | 0.0500 | 0.002282 | F1 | mg/L | | 5 | 59 - 139 |
| Ethylbenzene | <0.00100 | U F1 | 0.0500 | 0.001852 | F1 | mg/L | | 4 | 75 - 125 |
| m,p-Xylenes | <0.0100 | U F1 | 0.0500 | <0.0100 | U F1 | mg/L | | 5 | 75 - 125 |
| o-Xylene | <0.00100 | U F1 | 0.0500 | 0.002056 | F1 | mg/L | | 4 | 75 - 125 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1,2-Dichloroethane-d4 (Surr)* | *97* | | *63 - 144* |
| *4-Bromofluorobenzene (Surr)* | *91* | | *74 - 124* |
| *Dibromofluoromethane (Surr)* | *100* | | *75 - 131* |
| *Toluene-d8 (Surr)* | *99* | | *80 - 120* |

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 860-214996/118** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 214996**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <0.500 | U | 0.500 | | mg/L | | | 02/06/25 22:58 | 1 |

**Lab Sample ID: MB 860-214996/63** — **Client Sample ID: Method Blank**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 214996**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <0.500 | U | 0.500 | | mg/L | | | 02/06/25 17:52 | 1 |

**Lab Sample ID: LCS 860-214996/119** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 214996**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 10.0 | 9.835 | | mg/L | | 98 | 90 - 110 |

**Lab Sample ID: LCSD 860-214996/120** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 214996**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 10.0 | 9.825 | | mg/L | | 98 | 90 - 110 | 0 | 20 |

**Lab Sample ID: LLCS 860-214996/114** — **Client Sample ID: Lab Control Sample**
**Matrix: Water** — **Prep Type: Total/NA**
**Analysis Batch: 214996**

| Analyte | Spike Added | LLCS Result | LLCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 0.500 | 0.5611 | | mg/L | | 112 | 50 - 150 |

# QC Sample Results

Client: NT Global
Project/Site: Dickinson WW

Job ID: 820-17281-1
SDG: Lea Co, NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

**Lab Sample ID: 820-17281-1 MS**
**Matrix: Water**
**Analysis Batch: 214996**

**Client Sample ID: MW-N-A**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 98.6 | | 10.0 | 109.1 | 4 | mg/L | | 105 | 90 - 110 | | |

**Lab Sample ID: 820-17281-1 MSD**
**Matrix: Water**
**Analysis Batch: 214996**

**Client Sample ID: MW-N-A**
**Prep Type: Total/NA**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 98.6 | | 10.0 | 109.0 | 4 | mg/L | | 103 | 90 - 110 | 0 | 15 |

# QC Association Summary

Client: NT Global
Project/Site: Dickinson WW

Job ID: 820-17281-1
SDG: Lea Co, NM

## GC/MS VOA

### Analysis Batch: 215131

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 820-17281-1 | MW-N-A | Total/NA | Water | 8260D | |
| 820-17281-2 | MW-S-A | Total/NA | Water | 8260D | |
| 820-17281-3 | MW-6-A | Total/NA | Water | 8260D | |
| MB 860-215131/9 | Method Blank | Total/NA | Water | 8260D | |
| LCS 860-215131/3 | Lab Control Sample | Total/NA | Water | 8260D | |
| LCSD 860-215131/4 | Lab Control Sample Dup | Total/NA | Water | 8260D | |
| 820-17281-1 MS | MW-N-A | Total/NA | Water | 8260D | |

### Analysis Batch: 215749

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 820-17281-1 | MW-N-A | Total/NA | Water | Total BTEX | |
| 820-17281-2 | MW-S-A | Total/NA | Water | Total BTEX | |
| 820-17281-3 | MW-6-A | Total/NA | Water | Total BTEX | |

## HPLC/IC

### Analysis Batch: 214996

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 820-17281-1 | MW-N-A | Total/NA | Water | 300.0 | |
| 820-17281-2 | MW-S-A | Total/NA | Water | 300.0 | |
| 820-17281-3 | MW-6-A | Total/NA | Water | 300.0 | |
| MB 860-214996/118 | Method Blank | Total/NA | Water | 300.0 | |
| MB 860-214996/63 | Method Blank | Total/NA | Water | 300.0 | |
| LCS 860-214996/119 | Lab Control Sample | Total/NA | Water | 300.0 | |
| LCSD 860-214996/120 | Lab Control Sample Dup | Total/NA | Water | 300.0 | |
| LLCS 860-214996/114 | Lab Control Sample | Total/NA | Water | 300.0 | |
| 820-17281-1 MS | MW-N-A | Total/NA | Water | 300.0 | |
| 820-17281-1 MSD | MW-N-A | Total/NA | Water | 300.0 | |

# Lab Chronicle

Client: NT Global
Project/Site: Dickinson WW

Job ID: 820-17281-1
SDG: Lea Co, NM

## Client Sample ID: MW-N-A
**Date Collected: 02/03/25 05:00**
**Date Received: 02/04/25 11:40**

## Lab Sample ID: 820-17281-1
**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 | 215131 | 02/06/25 22:25 | NA | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 215749 | 02/06/25 22:25 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 1 | | | 214996 | 02/06/25 23:14 | WP | EET HOU |

## Client Sample ID: MW-S-A
**Date Collected: 02/03/25 05:30**
**Date Received: 02/04/25 11:40**

## Lab Sample ID: 820-17281-2
**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 | 215131 | 02/06/25 22:46 | NA | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 215749 | 02/06/25 22:46 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 1 | | | 214996 | 02/06/25 23:36 | WP | EET HOU |

## Client Sample ID: MW-6-A
**Date Collected: 02/03/25 06:00**
**Date Received: 02/04/25 11:40**

## Lab Sample ID: 820-17281-3
**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 | 215131 | 02/06/25 23:06 | NA | EET HOU |
| Total/NA | Analysis | Total BTEX | | 1 | | | 215749 | 02/06/25 23:06 | KLV | EET HOU |
| Total/NA | Analysis | 300.0 | | 1 | | | 214996 | 02/06/25 23:58 | WP | EET HOU |

**Laboratory References:**

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

# Accreditation/Certification Summary

Client: NT Global
Project/Site: Dickinson WW

Job ID: 820-17281-1
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 |

# Method Summary

Client: NT Global
Project/Site: Dickinson WW

Job ID: 820-17281-1
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 HOU |
| 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

# Sample Summary

Client: NT Global
Project/Site: Dickinson WW

Job ID: 820-17281-1
SDG: Lea Co, NM

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---|---|---|---|---|
| 820-17281-1 | MW-N-A | Water | 02/03/25 05:00 | 02/04/25 11:40 |
| 820-17281-2 | MW-S-A | Water | 02/03/25 05:30 | 02/04/25 11:40 |
| 820-17281-3 | MW-6-A | Water | 02/03/25 06:00 | 02/04/25 11:40 |

Loc: 820
17281

eurofins | Environment Testing Xenco

# Chain of Custody

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

820-17281 Chain of Custody

www.xenco.com Page 1 of 1

| | | | |
|---|---|---|---|
| Project Manager: | Jeff Kindley | Bill to: (if different) | Jim Raley |
| Company Name: | NTGE | Company Name: | Devon Energy |
| Address: | 701 Tradewinds Blvd, Suite C | Address: | |
| City, State ZIP: | Midland, TX 79706 | City, State ZIP: | |
| Phone: | 432-230-0920 | Email: | jkindley@ntglobal.com, bhaskell@ntglobal.com |

**Work Order Comments**

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Name: | Dickinson WW | Turn Around | ☑ Routine ☐ Rush |
| Project Number: | 237796 | Due Date: | |
| Project Location: | Lea Co, NM | TAT starts the day received by the lab, if received by 4:30pm | |
| Sampler's Name: | Nick Hart | | |
| PO #: | | | |

**SAMPLE RECEIPT**

| | | | |
|---|---|---|---|
| Temp Blank: | Yes (No) | Wet Ice: | (Yes) No |
| Samples Received Intact: | (Yes) No | Thermometer ID: | IR-1 |
| Cooler Custody Seals: | Yes No (N/A) | Correction Factor: | +0.2 |
| Sample Custody Seals: | Yes No (N/A) | Temperature Reading: | 2.3 |
| Total Containers: | 12 | Corrected Temperature: | 2.5 |

**ANALYSIS REQUEST**

| Sample Identification | Matrix | Date Sampled | Time Sampled | Depth | Grab/ Comp | # of Cont | Pres. Code | BTEX 8260 | Chlorides 300.0 |
|---|---|---|---|---|---|---|---|---|---|
| MW-N-A | W | 2/3/2025 | 5:00 | | Grab | 4 | | X | X |
| MW-S-A | W | 2/3/2025 | 5:30 | | Grab | 4 | | X | X |
| MW-6-A | W | 2/3/2025 | 6:00 | | Grab | 4 | | X | X |

**Preservative Codes**

None: NO DI Water: $H_2O$
Cool: Cool MeOH: Me
HCL: HC $HNO_3$: HN
$H_2S0_4$: $H_2$ NaOH: Na
$H_3PO_4$: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

**Sample Comments**

**Total 200.7 / 6010 200.8 / 6020:** 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag $SiO_2$ Na Sr Tl Sn U V Zn

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



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| 1 | | 2/4/25 11:40 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date: 08/25/2020 Rev. 2020.2

# Login Sample Receipt Checklist

Client: NT Global

Job Number: 820-17281-1
SDG Number: Lea Co, NM

**Login Number: 17281**
**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: 820-17281-1
SDG Number: Lea Co, NM

**Login Number: 17281**
**List Number: 2**
**Creator: Baker, Jeremiah**

**List Source: Eurofins Houston**
**List Creation: 02/05/25 01:58 PM**

| Question | Answer | Comment |
|---|---|---|
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | 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 | |

eurofins | Environment Testing



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ethan Sessums
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Generated 12/10/2024 12:14:43 PM

## JOB DESCRIPTION

Dickinson Ranch
237796

## JOB NUMBER

890-7434-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

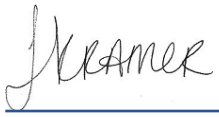
# Eurofins Carlsbad

## 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.

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

## Authorization



Generated
12/10/2024 12:14:43 PM

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

Client: NT Global
Project/Site: Dickinson Ranch

Laboratory Job ID: 890-7434-1
SDG: 237796

# Table of Contents

# Definitions/Glossary

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Qualifiers

### GC VOA

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

### GC Semi VOA

| Qualifier | Qualifier Description |
|---|---|
| *1 | LCS/LCSD RPD exceeds control limits. |
| 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 Ranch

Job ID: 890-7434-1

## Job ID: 890-7434-1 Eurofins Carlsbad

**Job Narrative**
**890-7434-1**

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 12/4/2024 9:34 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -0.2°C.

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

**Diesel Range Organics**
Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-97106 and analytical batch 880-97128 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

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 - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-97158 and analytical batch 880-97257 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.

# Client Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Client Sample ID: EMW-6A
**Date Collected: 12/02/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 5'**

## Lab Sample ID: 890-7434-1
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 14:49 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 14:49 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 14:49 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 14:49 | 1 |
| **o-Xylene** | **0.00284** | | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 14:49 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 14:49 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *120* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 14:49* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 14:49* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 12/05/24 14:49 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.7 | U | 49.7 | | mg/Kg | | | 12/05/24 17:43 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 17:43 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 17:43 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 17:43 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *125* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 17:43* | *1* |
| *o-Terphenyl* | *110* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 17:43* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **1040** | | 10.1 | | mg/Kg | | | 12/06/24 17:03 | 1 |

## Client Sample ID: EMW-6A
**Date Collected: 12/02/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 30'**

## Lab Sample ID: 890-7434-2
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 16:54 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 16:54 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 16:54 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 16:54 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 16:54 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 16:54 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 16:54* | *1* |

Eurofins Carlsbad

# Client Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Client Sample ID: EMW-6A
**Date Collected: 12/02/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 30'**

## Lab Sample ID: 890-7434-2
**Matrix: Solid**

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

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 16:54* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/05/24 16:54 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | | 12/05/24 18:00 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:00 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:00 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:00 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *113* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 18:00* | *1* |
| *o-Terphenyl* | *100* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 18:00* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **300** | | 9.96 | | mg/Kg | | | 12/06/24 17:09 | 1 |

## Client Sample ID: EMW-6A
**Date Collected: 12/02/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 70'**

## Lab Sample ID: 890-7434-3
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:15 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:15 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:15 | 1 |
| m-Xylene & p-Xylene | <0.00404 | U | 0.00404 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:15 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:15 | 1 |
| Xylenes, Total | <0.00404 | U | 0.00404 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:15 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *116* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 17:15* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 17:15* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00404 | U | 0.00404 | | mg/Kg | | | 12/05/24 17:15 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.9 | U | 49.9 | | mg/Kg | | | 12/05/24 18:16 | 1 |

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# Client Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Client Sample ID: EMW-6A

**Lab Sample ID: 890-7434-3**
**Matrix: Solid**
**Date Collected: 12/02/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 70'**

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9 | U | 49.9 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:16 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.9 | U | 49.9 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:16 | 1 |
| Oil Range Organics (Over C28-C36) | <49.9 | U | 49.9 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *113* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 18:16* | *1* |
| *o-Terphenyl* | *100* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 18:16* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **136** | | 9.92 | | mg/Kg | | | 12/07/24 00:02 | 1 |

## Client Sample ID: EMW-SOUTHA

**Lab Sample ID: 890-7434-4**
**Matrix: Solid**
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 10'**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:35 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:35 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:35 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:35 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:35 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:35 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *119* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 17:35* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 17:35* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00400 | U | 0.00400 | | mg/Kg | | | 12/05/24 17:35 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/05/24 18:32 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:32 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:32 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:32 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *112* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 18:32* | *1* |
| *o-Terphenyl* | *100* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 18:32* | *1* |

# Client Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Client Sample ID: EMW-SOUTHA
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 10'**

## Lab Sample ID: 890-7434-4
**Matrix: Solid**

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 86.0 | | 9.98 | | mg/Kg | | | 12/06/24 16:53 | 1 |

## Client Sample ID: EMW-SOUTHA
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 35'**

## Lab Sample ID: 890-7434-5
**Matrix: Solid**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:56 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:56 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:56 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:56 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:56 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 17:56 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *117* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 17:56* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 17:56* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/05/24 17:56 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | | 12/05/24 18:47 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:47 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:47 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 18:47 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *104* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 18:47* | *1* |
| *o-Terphenyl* | *92* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 18:47* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 29.0 | | 9.98 | | mg/Kg | | | 12/06/24 16:59 | 1 |

# Client Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Client Sample ID: EMW-SOUTHA

**Lab Sample ID: 890-7434-6**
**Matrix: Solid**
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 80'**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:16 | 1 |
| Toluene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:16 | 1 |
| Ethylbenzene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:16 | 1 |
| m-Xylene & p-Xylene | <0.00403 | U | 0.00403 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:16 | 1 |
| o-Xylene | <0.00202 | U | 0.00202 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:16 | 1 |
| Xylenes, Total | <0.00403 | U | 0.00403 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:16 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *118* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 18:16* | *1* |
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 18:16* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00403 | U | 0.00403 | | mg/Kg | | | 12/05/24 18:16 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | | 12/06/24 01:30 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 01:30 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 01:30 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 01:30 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *110* | | *70 - 130* | *12/03/24 09:41* | *12/06/24 01:30* | *1* |
| *o-Terphenyl* | *101* | | *70 - 130* | *12/03/24 09:41* | *12/06/24 01:30* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **86.1** | | 10.1 | | mg/Kg | | | 12/06/24 17:04 | 1 |

## Client Sample ID: EMW-NORTHA

**Lab Sample ID: 890-7434-7**
**Matrix: Solid**
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 20'**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:37 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:37 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:37 | 1 |
| m-Xylene & p-Xylene | <0.00399 | U | 0.00399 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:37 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:37 | 1 |
| Xylenes, Total | <0.00399 | U | 0.00399 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 18:37 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *121* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 18:37* | *1* |

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# Client Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Client Sample ID: EMW-NORTHA

**Lab Sample ID: 890-7434-7**
**Matrix: Solid**

**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 20'**

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

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1,4-Difluorobenzene (Surr)* | *94* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 18:37* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00399 | U | 0.00399 | | mg/Kg | | | 12/05/24 18:37 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.8 | U | 49.8 | | mg/Kg | | | 12/06/24 01:46 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U | 49.8 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 01:46 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 49.8 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 01:46 | 1 |
| Oil Range Organics (Over C28-C36) | <49.8 | U | 49.8 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 01:46 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *98* | | *70 - 130* | *12/03/24 09:41* | *12/06/24 01:46* | *1* |
| *o-Terphenyl* | *88* | | *70 - 130* | *12/03/24 09:41* | *12/06/24 01:46* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **90.3** | | 9.90 | | mg/Kg | | | 12/07/24 00:04 | 1 |

## Client Sample ID: EMW-NORTHA

**Lab Sample ID: 890-7434-8**
**Matrix: Solid**

**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 65'**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:59 | 1 |
| Toluene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:59 | 1 |
| Ethylbenzene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:59 | 1 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.00398 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:59 | 1 |
| o-Xylene | <0.00199 | U | 0.00199 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:59 | 1 |
| Xylenes, Total | <0.00398 | U | 0.00398 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:59 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *110* | | *70 - 130* | *12/05/24 09:37* | *12/05/24 11:59* | *1* |
| *1,4-Difluorobenzene (Surr)* | *107* | | *70 - 130* | *12/05/24 09:37* | *12/05/24 11:59* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00398 | U | 0.00398 | | mg/Kg | | | 12/05/24 11:59 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <50.0 | U | 50.0 | | mg/Kg | | | 12/06/24 02:02 | 1 |

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# Client Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Client Sample ID: EMW-NORTHA

**Lab Sample ID: 890-7434-8**
**Matrix: Solid**
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 65'**

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 02:02 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 02:02 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 02:02 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *93* | | *70 - 130* | *12/03/24 09:41* | *12/06/24 02:02* | *1* |
| *o-Terphenyl* | *83* | | *70 - 130* | *12/03/24 09:41* | *12/06/24 02:02* | *1* |

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| **Chloride** | **69.8** | | 10.1 | | mg/Kg | | | 12/07/24 00:10 | 1 |

## Client Sample ID: EMW-NORTHA

**Lab Sample ID: 890-7434-9**
**Matrix: Solid**
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 80'**

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 12:20 | 1 |
| Toluene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 12:20 | 1 |
| Ethylbenzene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 12:20 | 1 |
| m-Xylene & p-Xylene | <0.00402 | U | 0.00402 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 12:20 | 1 |
| o-Xylene | <0.00201 | U | 0.00201 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 12:20 | 1 |
| Xylenes, Total | <0.00402 | U | 0.00402 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 12:20 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *108* | | *70 - 130* | *12/05/24 09:37* | *12/05/24 12:20* | *1* |
| *1,4-Difluorobenzene (Surr)* | *106* | | *70 - 130* | *12/05/24 09:37* | *12/05/24 12:20* | *1* |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total BTEX | <0.00402 | U | 0.00402 | | mg/Kg | | | 12/05/24 12:20 | 1 |

### Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Total TPH | <49.7 | U | 49.7 | | mg/Kg | | | 12/06/24 02:18 | 1 |

### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.7 | U | 49.7 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 02:18 | 1 |
| Diesel Range Organics (Over C10-C28) | <49.7 | U | 49.7 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 02:18 | 1 |
| Oil Range Organics (Over C28-C36) | <49.7 | U | 49.7 | | mg/Kg | | 12/03/24 09:41 | 12/06/24 02:18 | 1 |

| *Surrogate* | *%Recovery* | *Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *118* | | *70 - 130* | *12/03/24 09:41* | *12/06/24 02:18* | *1* |
| *o-Terphenyl* | *107* | | *70 - 130* | *12/03/24 09:41* | *12/06/24 02:18* | *1* |

# Client Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Client Sample ID: EMW-NORTHA

**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**
**Sample Depth: 80'**

## Lab Sample ID: 890-7434-9

**Matrix: Solid**

### Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 102 | | 9.94 | | mg/Kg | | | 12/07/24 00:15 | 1 |

# Surrogate Summary

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

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

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | BFB1 (70-130) | DFBZ1 (70-130) |
| 890-7433-A-1-E MS | Matrix Spike | 97 | 96 |
| 890-7433-A-1-F MSD | Matrix Spike Duplicate | 100 | 97 |
| 890-7434-1 | EMW-6A | 120 | 94 |
| 890-7434-2 | EMW-6A | 119 | 96 |
| 890-7434-3 | EMW-6A | 116 | 94 |
| 890-7434-4 | EMW-SOUTHA | 119 | 94 |
| 890-7434-5 | EMW-SOUTHA | 117 | 94 |
| 890-7434-6 | EMW-SOUTHA | 118 | 94 |
| 890-7434-7 | EMW-NORTHA | 121 | 94 |
| 890-7434-8 | EMW-NORTHA | 110 | 107 |
| 890-7434-8 MS | EMW-NORTHA | 105 | 103 |
| 890-7434-8 MSD | EMW-NORTHA | 106 | 104 |
| 890-7434-9 | EMW-NORTHA | 108 | 106 |
| LCS 880-97130/1-A | Lab Control Sample | 100 | 98 |
| LCS 880-97132/1-A | Lab Control Sample | 106 | 104 |
| LCSD 880-97130/2-A | Lab Control Sample Dup | 98 | 98 |
| LCSD 880-97132/2-A | Lab Control Sample Dup | 106 | 104 |
| MB 880-97130/5-A | Method Blank | 112 | 87 |
| MB 880-97132/5-A | Method Blank | 111 | 100 |

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

**Matrix: Solid** **Prep Type: Total/NA**

| | | Percent Surrogate Recovery (Acceptance Limits) | |
|---|---|---|---|
| Lab Sample ID | Client Sample ID | 1CO1 (70-130) | OTPH1 (70-130) |
| 880-51651-A-22-C MS | Matrix Spike | 107 | 102 |
| 880-51651-A-22-D MSD | Matrix Spike Duplicate | 106 | 102 |
| 890-7434-1 | EMW-6A | 125 | 110 |
| 890-7434-2 | EMW-6A | 113 | 100 |
| 890-7434-3 | EMW-6A | 113 | 100 |
| 890-7434-4 | EMW-SOUTHA | 112 | 100 |
| 890-7434-5 | EMW-SOUTHA | 104 | 92 |
| 890-7434-6 | EMW-SOUTHA | 110 | 101 |
| 890-7434-7 | EMW-NORTHA | 98 | 88 |
| 890-7434-8 | EMW-NORTHA | 93 | 83 |
| 890-7434-9 | EMW-NORTHA | 118 | 107 |
| 890-7436-A-1-B MS | Matrix Spike | 106 | 102 |
| 890-7436-A-1-C MSD | Matrix Spike Duplicate | 106 | 102 |
| LCS 880-96946/2-A | Lab Control Sample | 116 | 117 |
| LCS 880-97106/2-A | Lab Control Sample | 94 | 94 |
| LCSD 880-96946/3-A | Lab Control Sample Dup | 116 | 117 |
| LCSD 880-97106/3-A | Lab Control Sample Dup | 109 | 108 |
| MB 880-96946/1-A | Method Blank | 97 | 93 |
| MB 880-97106/1-A | Method Blank | 100 | 94 |

**Surrogate Legend**

# Surrogate Summary

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

# QC Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

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

### Lab Sample ID: MB 880-97130/5-A
**Matrix: Solid**
**Analysis Batch: 97118**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 97130**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 11:23 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 11:23 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 11:23 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 11:23 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 11:23 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/05/24 09:32 | 12/05/24 11:23 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *112* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 11:23* | *1* |
| *1,4-Difluorobenzene (Surr)* | *87* | | *70 - 130* | *12/05/24 09:32* | *12/05/24 11:23* | *1* |

### Lab Sample ID: LCS 880-97130/1-A
**Matrix: Solid**
**Analysis Batch: 97118**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 97130**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1112 | | mg/Kg | | 111 | 70 - 130 |
| Toluene | 0.100 | 0.1071 | | mg/Kg | | 107 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1112 | | mg/Kg | | 111 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2239 | | mg/Kg | | 112 | 70 - 130 |
| o-Xylene | 0.100 | 0.1140 | | mg/Kg | | 114 | 70 - 130 |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *98* | | *70 - 130* |

### Lab Sample ID: LCSD 880-97130/2-A
**Matrix: Solid**
**Analysis Batch: 97118**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 97130**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1120 | | mg/Kg | | 112 | 70 - 130 | 1 | 35 |
| Toluene | 0.100 | 0.1066 | | mg/Kg | | 107 | 70 - 130 | 0 | 35 |
| Ethylbenzene | 0.100 | 0.1102 | | mg/Kg | | 110 | 70 - 130 | 1 | 35 |
| m-Xylene & p-Xylene | 0.200 | 0.2208 | | mg/Kg | | 110 | 70 - 130 | 1 | 35 |
| o-Xylene | 0.100 | 0.1128 | | mg/Kg | | 113 | 70 - 130 | 1 | 35 |

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

### Lab Sample ID: 890-7433-A-1-E MS
**Matrix: Solid**
**Analysis Batch: 97118**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 97130**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.0996 | 0.1014 | | mg/Kg | | 102 | 70 - 130 |
| Toluene | <0.00198 | U | 0.0996 | 0.09328 | | mg/Kg | | 94 | 70 - 130 |

# QC Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

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

**Lab Sample ID: 890-7433-A-1-E MS**
**Matrix: Solid**
**Analysis Batch: 97118**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 97130**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Ethylbenzene | <0.00198 | U | 0.0996 | 0.09272 | | mg/Kg | | 93 | 70 - 130 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.199 | 0.1828 | | mg/Kg | | 92 | 70 - 130 |
| o-Xylene | <0.00198 | U | 0.0996 | 0.09503 | | mg/Kg | | 95 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *97* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *96* | | *70 - 130* |

**Lab Sample ID: 890-7433-A-1-F MSD**
**Matrix: Solid**
**Analysis Batch: 97118**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 97130**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00198 | U | 0.101 | 0.1007 | | mg/Kg | | 100 | 70 - 130 | 1 | 35 |
| Toluene | <0.00198 | U | 0.101 | 0.09190 | | mg/Kg | | 91 | 70 - 130 | 1 | 35 |
| Ethylbenzene | <0.00198 | U | 0.101 | 0.09197 | | mg/Kg | | 91 | 70 - 130 | 1 | 35 |
| m-Xylene & p-Xylene | <0.00396 | U | 0.202 | 0.1806 | | mg/Kg | | 89 | 70 - 130 | 1 | 35 |
| o-Xylene | <0.00198 | U | 0.101 | 0.09445 | | mg/Kg | | 94 | 70 - 130 | 1 | 35 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *100* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *97* | | *70 - 130* |

**Lab Sample ID: MB 880-97132/5-A**
**Matrix: Solid**
**Analysis Batch: 97121**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 97132**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:38 | 1 |
| Toluene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:38 | 1 |
| Ethylbenzene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:38 | 1 |
| m-Xylene & p-Xylene | <0.00400 | U | 0.00400 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:38 | 1 |
| o-Xylene | <0.00200 | U | 0.00200 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:38 | 1 |
| Xylenes, Total | <0.00400 | U | 0.00400 | | mg/Kg | | 12/05/24 09:37 | 12/05/24 11:38 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *111* | | *70 - 130* | *12/05/24 09:37* | *12/05/24 11:38* | *1* |
| *1,4-Difluorobenzene (Surr)* | *100* | | *70 - 130* | *12/05/24 09:37* | *12/05/24 11:38* | *1* |

**Lab Sample ID: LCS 880-97132/1-A**
**Matrix: Solid**
**Analysis Batch: 97121**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 97132**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Benzene | 0.100 | 0.1107 | | mg/Kg | | 111 | 70 - 130 |
| Toluene | 0.100 | 0.1099 | | mg/Kg | | 110 | 70 - 130 |
| Ethylbenzene | 0.100 | 0.1079 | | mg/Kg | | 108 | 70 - 130 |
| m-Xylene & p-Xylene | 0.200 | 0.2203 | | mg/Kg | | 110 | 70 - 130 |

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# QC Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

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

**Lab Sample ID: LCS 880-97132/1-A**
**Matrix: Solid**
**Analysis Batch: 97121**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 97132**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| o-Xylene | | | 0.100 | 0.1129 | | mg/Kg | | 113 | 70 - 130 | | |

| *Surrogate* | *LCS %Recovery* | *LCS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* |

**Lab Sample ID: LCSD 880-97132/2-A**
**Matrix: Solid**
**Analysis Batch: 97121**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 97132**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | | | 0.100 | 0.1148 | | mg/Kg | | 115 | 70 - 130 | 4 | 35 |
| Toluene | | | 0.100 | 0.1135 | | mg/Kg | | 114 | 70 - 130 | 3 | 35 |
| Ethylbenzene | | | 0.100 | 0.1118 | | mg/Kg | | 112 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | | | 0.200 | 0.2284 | | mg/Kg | | 114 | 70 - 130 | 4 | 35 |
| o-Xylene | | | 0.100 | 0.1171 | | mg/Kg | | 117 | 70 - 130 | 4 | 35 |

| *Surrogate* | *LCSD %Recovery* | *LCSD Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *106* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *104* | | *70 - 130* |

**Lab Sample ID: 890-7434-8 MS**
**Matrix: Solid**
**Analysis Batch: 97121**

**Client Sample ID: EMW-NORTHA**
**Prep Type: Total/NA**
**Prep Batch: 97132**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.0990 | 0.1070 | | mg/Kg | | 108 | 70 - 130 | | |
| Toluene | <0.00199 | U | 0.0990 | 0.1060 | | mg/Kg | | 107 | 70 - 130 | | |
| Ethylbenzene | <0.00199 | U | 0.0990 | 0.1050 | | mg/Kg | | 106 | 70 - 130 | | |
| m-Xylene & p-Xylene | <0.00398 | U | 0.198 | 0.2131 | | mg/Kg | | 108 | 70 - 130 | | |
| o-Xylene | <0.00199 | U | 0.0990 | 0.1089 | | mg/Kg | | 110 | 70 - 130 | | |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *4-Bromofluorobenzene (Surr)* | *105* | | *70 - 130* |
| *1,4-Difluorobenzene (Surr)* | *103* | | *70 - 130* |

**Lab Sample ID: 890-7434-8 MSD**
**Matrix: Solid**
**Analysis Batch: 97121**

**Client Sample ID: EMW-NORTHA**
**Prep Type: Total/NA**
**Prep Batch: 97132**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Benzene | <0.00199 | U | 0.100 | 0.1117 | | mg/Kg | | 111 | 70 - 130 | 4 | 35 |
| Toluene | <0.00199 | U | 0.100 | 0.1110 | | mg/Kg | | 111 | 70 - 130 | 5 | 35 |
| Ethylbenzene | <0.00199 | U | 0.100 | 0.1097 | | mg/Kg | | 109 | 70 - 130 | 4 | 35 |
| m-Xylene & p-Xylene | <0.00398 | U | 0.200 | 0.2227 | | mg/Kg | | 111 | 70 - 130 | 4 | 35 |
| o-Xylene | <0.00199 | U | 0.100 | 0.1141 | | mg/Kg | | 114 | 70 - 130 | 5 | 35 |

# QC Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

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

**Lab Sample ID: 890-7434-8 MSD**
**Matrix: Solid**
**Analysis Batch: 97121**

**Client Sample ID: EMW-NORTHA**
**Prep Type: Total/NA**
**Prep Batch: 97132**

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 4-Bromofluorobenzene (Surr) | 106 | | 70 - 130 |
| 1,4-Difluorobenzene (Surr) | 104 | | 70 - 130 |

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

**Lab Sample ID: MB 880-96946/1-A**
**Matrix: Solid**
**Analysis Batch: 97128**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 96946**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/03/24 09:40 | 12/05/24 20:08 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/03/24 09:40 | 12/05/24 20:08 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/03/24 09:40 | 12/05/24 20:08 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|
| 1-Chlorooctane | 97 | | 70 - 130 | 12/03/24 09:40 | 12/05/24 20:08 | 1 |
| o-Terphenyl | 93 | | 70 - 130 | 12/03/24 09:40 | 12/05/24 20:08 | 1 |

**Lab Sample ID: LCS 880-96946/2-A**
**Matrix: Solid**
**Analysis Batch: 97128**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 96946**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1043 | | mg/Kg | | 104 | 70 - 130 | | |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1106 | | mg/Kg | | 111 | 70 - 130 | | |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 116 | | 70 - 130 |
| o-Terphenyl | 117 | | 70 - 130 |

**Lab Sample ID: LCSD 880-96946/3-A**
**Matrix: Solid**
**Analysis Batch: 97128**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 96946**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1088 | | mg/Kg | | 109 | 70 - 130 | 4 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 978.7 | | mg/Kg | | 98 | 70 - 130 | 12 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 116 | | 70 - 130 |
| o-Terphenyl | 117 | | 70 - 130 |

# QC Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: 880-51651-A-22-C MS**
**Matrix: Solid**
**Analysis Batch: 97128**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 96946**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 997 | 914.5 | | mg/Kg | | 92 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 997 | 819.3 | | mg/Kg | | 82 | 70 - 130 |

| *Surrogate* | *MS %Recovery* | *MS Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *107* | | *70 - 130* |
| *o-Terphenyl* | *102* | | *70 - 130* |

**Lab Sample ID: 880-51651-A-22-D MSD**
**Matrix: Solid**
**Analysis Batch: 97128**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 96946**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 997 | 906.5 | | mg/Kg | | 91 | 70 - 130 | 1 | 20 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 997 | 830.7 | | mg/Kg | | 83 | 70 - 130 | 1 | 20 |

| *Surrogate* | *MSD %Recovery* | *MSD Qualifier* | *Limits* |
|---|---|---|---|
| *1-Chlorooctane* | *106* | | *70 - 130* |
| *o-Terphenyl* | *102* | | *70 - 130* |

**Lab Sample ID: MB 880-97106/1-A**
**Matrix: Solid**
**Analysis Batch: 97128**

**Client Sample ID: Method Blank**
**Prep Type: Total/NA**
**Prep Batch: 97106**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0 | U | 50.0 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 09:10 | 1 |
| Diesel Range Organics (Over C10-C28) | <50.0 | U | 50.0 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 09:10 | 1 |
| Oil Range Organics (Over C28-C36) | <50.0 | U | 50.0 | | mg/Kg | | 12/04/24 21:15 | 12/05/24 09:10 | 1 |

| *Surrogate* | *MB %Recovery* | *MB Qualifier* | *Limits* | *Prepared* | *Analyzed* | *Dil Fac* |
|---|---|---|---|---|---|---|
| *1-Chlorooctane* | *100* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 09:10* | *1* |
| *o-Terphenyl* | *94* | | *70 - 130* | *12/04/24 21:15* | *12/05/24 09:10* | *1* |

**Lab Sample ID: LCS 880-97106/2-A**
**Matrix: Solid**
**Analysis Batch: 97128**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 97106**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | 1000 | 904.3 | | mg/Kg | | 90 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 1000 | 856.6 | | mg/Kg | | 86 | 70 - 130 |

# QC Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Lab Sample ID: LCS 880-97106/2-A**
**Matrix: Solid**
**Analysis Batch: 97128**

**Client Sample ID: Lab Control Sample**
**Prep Type: Total/NA**
**Prep Batch: 97106**

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 94 | | 70 - 130 |
| o-Terphenyl | 94 | | 70 - 130 |

**Lab Sample ID: LCSD 880-97106/3-A**
**Matrix: Solid**
**Analysis Batch: 97128**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Total/NA**
**Prep Batch: 97106**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | | | 1000 | 1121 | *1 | mg/Kg | | 112 | 70 - 130 | 21 | 20 |
| Diesel Range Organics (Over C10-C28) | | | 1000 | 1024 | | mg/Kg | | 102 | 70 - 130 | 18 | 20 |

| Surrogate | LCSD %Recovery | LCSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 109 | | 70 - 130 |
| o-Terphenyl | 108 | | 70 - 130 |

**Lab Sample ID: 890-7436-A-1-B MS**
**Matrix: Solid**
**Analysis Batch: 97128**

**Client Sample ID: Matrix Spike**
**Prep Type: Total/NA**
**Prep Batch: 97106**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U *1 | 997 | 899.5 | | mg/Kg | | 90 | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 997 | 853.4 | | mg/Kg | | 86 | 70 - 130 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 106 | | 70 - 130 |
| o-Terphenyl | 102 | | 70 - 130 |

**Lab Sample ID: 890-7436-A-1-C MSD**
**Matrix: Solid**
**Analysis Batch: 97128**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Total/NA**
**Prep Batch: 97106**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gasoline Range Organics (GRO)-C6-C10 | <49.8 | U *1 | 997 | 919.6 | | mg/Kg | | 92 | 70 - 130 | 2 | 20 |
| Diesel Range Organics (Over C10-C28) | <49.8 | U | 997 | 854.4 | | mg/Kg | | 86 | 70 - 130 | 0 | 20 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|---|---|---|---|
| 1-Chlorooctane | 106 | | 70 - 130 |
| o-Terphenyl | 102 | | 70 - 130 |

# QC Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: MB 880-97153/1-A**
**Matrix: Solid**
**Analysis Batch: 97214**

**Client Sample ID: Method Blank**
**Prep Type: Soluble**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | U | 10.0 | | mg/Kg | | | 12/06/24 21:05 | 1 |

**Lab Sample ID: LCS 880-97153/2-A**
**Matrix: Solid**
**Analysis Batch: 97214**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 250 | 261.5 | | mg/Kg | | 105 | 90 - 110 |

**Lab Sample ID: LCSD 880-97153/3-A**
**Matrix: Solid**
**Analysis Batch: 97214**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Soluble**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 250 | 262.1 | | mg/Kg | | 105 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-51666-A-1-B MS**
**Matrix: Solid**
**Analysis Batch: 97214**

**Client Sample ID: Matrix Spike**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 81.2 | | 249 | 355.7 | | mg/Kg | | 110 | 90 - 110 |

**Lab Sample ID: 880-51666-A-1-C MSD**
**Matrix: Solid**
**Analysis Batch: 97214**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 81.2 | | 249 | 355.8 | | mg/Kg | | 110 | 90 - 110 | 0 | 20 |

**Lab Sample ID: MB 880-97158/1-A**
**Matrix: Solid**
**Analysis Batch: 97257**

**Client Sample ID: Method Blank**
**Prep Type: Soluble**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | U | 10.0 | | mg/Kg | | | 12/06/24 14:12 | 1 |

**Lab Sample ID: LCS 880-97158/2-A**
**Matrix: Solid**
**Analysis Batch: 97257**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 250 | 256.0 | | mg/Kg | | 102 | 90 - 110 |

**Lab Sample ID: LCSD 880-97158/3-A**
**Matrix: Solid**
**Analysis Batch: 97257**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Soluble**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 250 | 255.8 | | mg/Kg | | 102 | 90 - 110 | 0 | 20 |

# QC Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: 890-7432-A-1-F MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 97257**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 13000 | F1 | 5010 | 19130 | F1 | mg/Kg | | 122 | 90 - 110 |

**Lab Sample ID: 890-7432-A-1-G MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 97257**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 13000 | F1 | 5010 | 19140 | F1 | mg/Kg | | 122 | 90 - 110 | 0 | 20 |

**Lab Sample ID: MB 880-97244/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 97264**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | U | 10.0 | | mg/Kg | | | 12/06/24 14:17 | 1 |

**Lab Sample ID: LCS 880-97244/2-A** — **Client Sample ID: Lab Control Sample**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 97264**

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|
| Chloride | 250 | 241.1 | | mg/Kg | | 96 | 90 - 110 |

**Lab Sample ID: LCSD 880-97244/3-A** — **Client Sample ID: Lab Control Sample Dup**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 97264**

| Analyte | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 250 | 241.1 | | mg/Kg | | 96 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-51824-A-8-E MS** — **Client Sample ID: Matrix Spike**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 97264**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | 76.0 | | 250 | 345.5 | | mg/Kg | | 108 | 90 - 110 |

**Lab Sample ID: 880-51824-A-8-F MSD** — **Client Sample ID: Matrix Spike Duplicate**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 97264**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 76.0 | | 250 | 345.2 | | mg/Kg | | 108 | 90 - 110 | 0 | 20 |

**Lab Sample ID: MB 880-97270/1-A** — **Client Sample ID: Method Blank**
**Matrix: Solid** — **Prep Type: Soluble**
**Analysis Batch: 97312**

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|---|---|---|---|---|---|---|---|---|
| Chloride | <10.0 | U | 10.0 | | mg/Kg | | | 12/06/24 21:58 | 1 |

# QC Sample Results

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Method: 300.0 - Anions, Ion Chromatography

**Lab Sample ID: LCS 880-97270/2-A**
**Matrix: Solid**
**Analysis Batch: 97312**

**Client Sample ID: Lab Control Sample**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 245.6 | | mg/Kg | | 98 | 90 - 110 | | |

**Lab Sample ID: LCSD 880-97270/3-A**
**Matrix: Solid**
**Analysis Batch: 97312**

**Client Sample ID: Lab Control Sample Dup**
**Prep Type: Soluble**

| Analyte | | | Spike Added | LCSD Result | LCSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | | | 250 | 246.0 | | mg/Kg | | 98 | 90 - 110 | 0 | 20 |

**Lab Sample ID: 880-51860-A-3-C MS**
**Matrix: Solid**
**Analysis Batch: 97312**

**Client Sample ID: Matrix Spike**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 78.5 | | 251 | 349.5 | | mg/Kg | | 108 | 90 - 110 | | |

**Lab Sample ID: 880-51860-A-3-D MSD**
**Matrix: Solid**
**Analysis Batch: 97312**

**Client Sample ID: Matrix Spike Duplicate**
**Prep Type: Soluble**

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chloride | 78.5 | | 251 | 349.6 | | mg/Kg | | 108 | 90 - 110 | 0 | 20 |

# QC Association Summary

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## GC VOA

### Analysis Batch: 97118

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-1 | EMW-6A | Total/NA | Solid | 8021B | 97130 |
| 890-7434-2 | EMW-6A | Total/NA | Solid | 8021B | 97130 |
| 890-7434-3 | EMW-6A | Total/NA | Solid | 8021B | 97130 |
| 890-7434-4 | EMW-SOUTHA | Total/NA | Solid | 8021B | 97130 |
| 890-7434-5 | EMW-SOUTHA | Total/NA | Solid | 8021B | 97130 |
| 890-7434-6 | EMW-SOUTHA | Total/NA | Solid | 8021B | 97130 |
| 890-7434-7 | EMW-NORTHA | Total/NA | Solid | 8021B | 97130 |
| MB 880-97130/5-A | Method Blank | Total/NA | Solid | 8021B | 97130 |
| LCS 880-97130/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 97130 |
| LCSD 880-97130/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 97130 |
| 890-7433-A-1-E MS | Matrix Spike | Total/NA | Solid | 8021B | 97130 |
| 890-7433-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 8021B | 97130 |

### Analysis Batch: 97121

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-8 | EMW-NORTHA | Total/NA | Solid | 8021B | 97132 |
| 890-7434-9 | EMW-NORTHA | Total/NA | Solid | 8021B | 97132 |
| MB 880-97132/5-A | Method Blank | Total/NA | Solid | 8021B | 97132 |
| LCS 880-97132/1-A | Lab Control Sample | Total/NA | Solid | 8021B | 97132 |
| LCSD 880-97132/2-A | Lab Control Sample Dup | Total/NA | Solid | 8021B | 97132 |
| 890-7434-8 MS | EMW-NORTHA | Total/NA | Solid | 8021B | 97132 |
| 890-7434-8 MSD | EMW-NORTHA | Total/NA | Solid | 8021B | 97132 |

### Prep Batch: 97130

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-1 | EMW-6A | Total/NA | Solid | 5035 | |
| 890-7434-2 | EMW-6A | Total/NA | Solid | 5035 | |
| 890-7434-3 | EMW-6A | Total/NA | Solid | 5035 | |
| 890-7434-4 | EMW-SOUTHA | Total/NA | Solid | 5035 | |
| 890-7434-5 | EMW-SOUTHA | Total/NA | Solid | 5035 | |
| 890-7434-6 | EMW-SOUTHA | Total/NA | Solid | 5035 | |
| 890-7434-7 | EMW-NORTHA | Total/NA | Solid | 5035 | |
| MB 880-97130/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-97130/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-97130/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-7433-A-1-E MS | Matrix Spike | Total/NA | Solid | 5035 | |
| 890-7433-A-1-F MSD | Matrix Spike Duplicate | Total/NA | Solid | 5035 | |

### Prep Batch: 97132

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-8 | EMW-NORTHA | Total/NA | Solid | 5035 | |
| 890-7434-9 | EMW-NORTHA | Total/NA | Solid | 5035 | |
| MB 880-97132/5-A | Method Blank | Total/NA | Solid | 5035 | |
| LCS 880-97132/1-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| LCSD 880-97132/2-A | Lab Control Sample Dup | Total/NA | Solid | 5035 | |
| 890-7434-8 MS | EMW-NORTHA | Total/NA | Solid | 5035 | |
| 890-7434-8 MSD | EMW-NORTHA | Total/NA | Solid | 5035 | |

### Analysis Batch: 97281

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-1 | EMW-6A | Total/NA | Solid | Total BTEX | |

# QC Association Summary

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## GC VOA (Continued)

### Analysis Batch: 97281 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-2 | EMW-6A | Total/NA | Solid | Total BTEX | |
| 890-7434-3 | EMW-6A | Total/NA | Solid | Total BTEX | |
| 890-7434-4 | EMW-SOUTHA | Total/NA | Solid | Total BTEX | |
| 890-7434-5 | EMW-SOUTHA | Total/NA | Solid | Total BTEX | |
| 890-7434-6 | EMW-SOUTHA | Total/NA | Solid | Total BTEX | |
| 890-7434-7 | EMW-NORTHA | Total/NA | Solid | Total BTEX | |
| 890-7434-8 | EMW-NORTHA | Total/NA | Solid | Total BTEX | |
| 890-7434-9 | EMW-NORTHA | Total/NA | Solid | Total BTEX | |

## GC Semi VOA

### Prep Batch: 96946

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-6 | EMW-SOUTHA | Total/NA | Solid | 8015NM Prep | |
| 890-7434-7 | EMW-NORTHA | Total/NA | Solid | 8015NM Prep | |
| 890-7434-8 | EMW-NORTHA | Total/NA | Solid | 8015NM Prep | |
| 890-7434-9 | EMW-NORTHA | Total/NA | Solid | 8015NM Prep | |
| MB 880-96946/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-96946/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-96946/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 880-51651-A-22-C MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 880-51651-A-22-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Prep Batch: 97106

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-1 | EMW-6A | Total/NA | Solid | 8015NM Prep | |
| 890-7434-2 | EMW-6A | Total/NA | Solid | 8015NM Prep | |
| 890-7434-3 | EMW-6A | Total/NA | Solid | 8015NM Prep | |
| 890-7434-4 | EMW-SOUTHA | Total/NA | Solid | 8015NM Prep | |
| 890-7434-5 | EMW-SOUTHA | Total/NA | Solid | 8015NM Prep | |
| MB 880-97106/1-A | Method Blank | Total/NA | Solid | 8015NM Prep | |
| LCS 880-97106/2-A | Lab Control Sample | Total/NA | Solid | 8015NM Prep | |
| LCSD 880-97106/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015NM Prep | |
| 890-7436-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015NM Prep | |
| 890-7436-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015NM Prep | |

### Analysis Batch: 97128

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-1 | EMW-6A | Total/NA | Solid | 8015B NM | 97106 |
| 890-7434-2 | EMW-6A | Total/NA | Solid | 8015B NM | 97106 |
| 890-7434-3 | EMW-6A | Total/NA | Solid | 8015B NM | 97106 |
| 890-7434-4 | EMW-SOUTHA | Total/NA | Solid | 8015B NM | 97106 |
| 890-7434-5 | EMW-SOUTHA | Total/NA | Solid | 8015B NM | 97106 |
| 890-7434-6 | EMW-SOUTHA | Total/NA | Solid | 8015B NM | 96946 |
| 890-7434-7 | EMW-NORTHA | Total/NA | Solid | 8015B NM | 96946 |
| 890-7434-8 | EMW-NORTHA | Total/NA | Solid | 8015B NM | 96946 |
| 890-7434-9 | EMW-NORTHA | Total/NA | Solid | 8015B NM | 96946 |
| MB 880-96946/1-A | Method Blank | Total/NA | Solid | 8015B NM | 96946 |
| MB 880-97106/1-A | Method Blank | Total/NA | Solid | 8015B NM | 97106 |
| LCS 880-96946/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 96946 |
| LCS 880-97106/2-A | Lab Control Sample | Total/NA | Solid | 8015B NM | 97106 |

# QC Association Summary

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## GC Semi VOA (Continued)

### Analysis Batch: 97128 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| LCSD 880-96946/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 96946 |
| LCSD 880-97106/3-A | Lab Control Sample Dup | Total/NA | Solid | 8015B NM | 97106 |
| 880-51651-A-22-C MS | Matrix Spike | Total/NA | Solid | 8015B NM | 96946 |
| 880-51651-A-22-D MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 96946 |
| 890-7436-A-1-B MS | Matrix Spike | Total/NA | Solid | 8015B NM | 97106 |
| 890-7436-A-1-C MSD | Matrix Spike Duplicate | Total/NA | Solid | 8015B NM | 97106 |

### Analysis Batch: 97252

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-1 | EMW-6A | Total/NA | Solid | 8015 NM | |
| 890-7434-2 | EMW-6A | Total/NA | Solid | 8015 NM | |
| 890-7434-3 | EMW-6A | Total/NA | Solid | 8015 NM | |
| 890-7434-4 | EMW-SOUTHA | Total/NA | Solid | 8015 NM | |
| 890-7434-5 | EMW-SOUTHA | Total/NA | Solid | 8015 NM | |
| 890-7434-6 | EMW-SOUTHA | Total/NA | Solid | 8015 NM | |
| 890-7434-7 | EMW-NORTHA | Total/NA | Solid | 8015 NM | |
| 890-7434-8 | EMW-NORTHA | Total/NA | Solid | 8015 NM | |
| 890-7434-9 | EMW-NORTHA | Total/NA | Solid | 8015 NM | |

## HPLC/IC

### Leach Batch: 97153

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-3 | EMW-6A | Soluble | Solid | DI Leach | |
| MB 880-97153/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-97153/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-97153/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-51666-A-1-B MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-51666-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

### Leach Batch: 97158

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-1 | EMW-6A | Soluble | Solid | DI Leach | |
| 890-7434-2 | EMW-6A | Soluble | Solid | DI Leach | |
| MB 880-97158/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-97158/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-97158/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 890-7432-A-1-F MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 890-7432-A-1-G MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

### Analysis Batch: 97214

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-3 | EMW-6A | Soluble | Solid | 300.0 | 97153 |
| MB 880-97153/1-A | Method Blank | Soluble | Solid | 300.0 | 97153 |
| LCS 880-97153/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 97153 |
| LCSD 880-97153/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 97153 |
| 880-51666-A-1-B MS | Matrix Spike | Soluble | Solid | 300.0 | 97153 |
| 880-51666-A-1-C MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 97153 |

# QC Association Summary

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## HPLC/IC

### Leach Batch: 97244

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-4 | EMW-SOUTHA | Soluble | Solid | DI Leach | |
| 890-7434-5 | EMW-SOUTHA | Soluble | Solid | DI Leach | |
| 890-7434-6 | EMW-SOUTHA | Soluble | Solid | DI Leach | |
| MB 880-97244/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-97244/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-97244/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-51824-A-8-E MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-51824-A-8-F MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

### Analysis Batch: 97257

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-1 | EMW-6A | Soluble | Solid | 300.0 | 97158 |
| 890-7434-2 | EMW-6A | Soluble | Solid | 300.0 | 97158 |
| MB 880-97158/1-A | Method Blank | Soluble | Solid | 300.0 | 97158 |
| LCS 880-97158/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 97158 |
| LCSD 880-97158/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 97158 |
| 890-7432-A-1-F MS | Matrix Spike | Soluble | Solid | 300.0 | 97158 |
| 890-7432-A-1-G MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 97158 |

### Analysis Batch: 97264

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-4 | EMW-SOUTHA | Soluble | Solid | 300.0 | 97244 |
| 890-7434-5 | EMW-SOUTHA | Soluble | Solid | 300.0 | 97244 |
| 890-7434-6 | EMW-SOUTHA | Soluble | Solid | 300.0 | 97244 |
| MB 880-97244/1-A | Method Blank | Soluble | Solid | 300.0 | 97244 |
| LCS 880-97244/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 97244 |
| LCSD 880-97244/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 97244 |
| 880-51824-A-8-E MS | Matrix Spike | Soluble | Solid | 300.0 | 97244 |
| 880-51824-A-8-F MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 97244 |

### Leach Batch: 97270

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-7 | EMW-NORTHA | Soluble | Solid | DI Leach | |
| 890-7434-8 | EMW-NORTHA | Soluble | Solid | DI Leach | |
| 890-7434-9 | EMW-NORTHA | Soluble | Solid | DI Leach | |
| MB 880-97270/1-A | Method Blank | Soluble | Solid | DI Leach | |
| LCS 880-97270/2-A | Lab Control Sample | Soluble | Solid | DI Leach | |
| LCSD 880-97270/3-A | Lab Control Sample Dup | Soluble | Solid | DI Leach | |
| 880-51860-A-3-C MS | Matrix Spike | Soluble | Solid | DI Leach | |
| 880-51860-A-3-D MSD | Matrix Spike Duplicate | Soluble | Solid | DI Leach | |

### Analysis Batch: 97312

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|---|---|---|---|---|
| 890-7434-7 | EMW-NORTHA | Soluble | Solid | 300.0 | 97270 |
| 890-7434-8 | EMW-NORTHA | Soluble | Solid | 300.0 | 97270 |
| 890-7434-9 | EMW-NORTHA | Soluble | Solid | 300.0 | 97270 |
| MB 880-97270/1-A | Method Blank | Soluble | Solid | 300.0 | 97270 |
| LCS 880-97270/2-A | Lab Control Sample | Soluble | Solid | 300.0 | 97270 |
| LCSD 880-97270/3-A | Lab Control Sample Dup | Soluble | Solid | 300.0 | 97270 |
| 880-51860-A-3-C MS | Matrix Spike | Soluble | Solid | 300.0 | 97270 |
| 880-51860-A-3-D MSD | Matrix Spike Duplicate | Soluble | Solid | 300.0 | 97270 |

# Lab Chronicle

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Client Sample ID: EMW-6A
**Date Collected: 12/02/24 00:00**
**Date Received: 12/04/24 09:34**

**Lab Sample ID: 890-7434-1**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 97130 | 12/05/24 09:32 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 97118 | 12/05/24 14:49 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 97281 | 12/05/24 14:49 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 97252 | 12/05/24 17:43 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 97106 | 12/04/24 21:15 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 97128 | 12/05/24 17:43 | TKC | EET MID |
| Soluble | Leach | DI Leach | | | 4.95 g | 50 mL | 97158 | 12/05/24 10:46 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 97257 | 12/06/24 17:03 | CH | EET MID |

## Client Sample ID: EMW-6A
**Date Collected: 12/02/24 00:00**
**Date Received: 12/04/24 09:34**

**Lab Sample ID: 890-7434-2**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 97130 | 12/05/24 09:32 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 97118 | 12/05/24 16:54 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 97281 | 12/05/24 16:54 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 97252 | 12/05/24 18:00 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 97106 | 12/04/24 21:15 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 97128 | 12/05/24 18:00 | TKC | EET MID |
| Soluble | Leach | DI Leach | | | 5.02 g | 50 mL | 97158 | 12/05/24 10:46 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 97257 | 12/06/24 17:09 | CH | EET MID |

## Client Sample ID: EMW-6A
**Date Collected: 12/02/24 00:00**
**Date Received: 12/04/24 09:34**

**Lab Sample ID: 890-7434-3**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.95 g | 5 mL | 97130 | 12/05/24 09:32 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 97118 | 12/05/24 17:15 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 97281 | 12/05/24 17:15 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 97252 | 12/05/24 18:16 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.03 g | 10 mL | 97106 | 12/04/24 21:15 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 97128 | 12/05/24 18:16 | TKC | EET MID |
| Soluble | Leach | DI Leach | | | 5.04 g | 50 mL | 97153 | 12/05/24 10:35 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 97214 | 12/07/24 00:02 | CH | EET MID |

## Client Sample ID: EMW-SOUTHA
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**

**Lab Sample ID: 890-7434-4**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.00 g | 5 mL | 97130 | 12/05/24 09:32 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 97118 | 12/05/24 17:35 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 97281 | 12/05/24 17:35 | SM | EET MID |

Eurofins Carlsbad

# Lab Chronicle

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Client Sample ID: EMW-SOUTHA
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**

**Lab Sample ID: 890-7434-4**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Analysis | 8015 NM | | 1 | | | 97252 | 12/05/24 18:32 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 97106 | 12/04/24 21:15 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 97128 | 12/05/24 18:32 | TKC | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 97244 | 12/06/24 09:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 97264 | 12/06/24 16:53 | CH | EET MID |

## Client Sample ID: EMW-SOUTHA
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**

**Lab Sample ID: 890-7434-5**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 97130 | 12/05/24 09:32 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 97118 | 12/05/24 17:56 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 97281 | 12/05/24 17:56 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 97252 | 12/05/24 18:47 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.05 g | 10 mL | 97106 | 12/04/24 21:15 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 97128 | 12/05/24 18:47 | TKC | EET MID |
| Soluble | Leach | DI Leach | | | 5.01 g | 50 mL | 97244 | 12/06/24 09:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 97264 | 12/06/24 16:59 | CH | EET MID |

## Client Sample ID: EMW-SOUTHA
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**

**Lab Sample ID: 890-7434-6**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.96 g | 5 mL | 97130 | 12/05/24 09:32 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 97118 | 12/05/24 18:16 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 97281 | 12/05/24 18:16 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 97252 | 12/06/24 01:30 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.04 g | 10 mL | 96946 | 12/03/24 09:41 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 97128 | 12/06/24 01:30 | TKC | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 97244 | 12/06/24 09:03 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 97264 | 12/06/24 17:04 | CH | EET MID |

## Client Sample ID: EMW-NORTHA
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**

**Lab Sample ID: 890-7434-7**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.01 g | 5 mL | 97130 | 12/05/24 09:32 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 97118 | 12/05/24 18:37 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 97281 | 12/05/24 18:37 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 97252 | 12/06/24 01:46 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.05 g | 10 mL | 96946 | 12/03/24 09:41 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 97128 | 12/06/24 01:46 | TKC | EET MID |

# Lab Chronicle

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Client Sample ID: EMW-NORTHA
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**

**Lab Sample ID: 890-7434-7**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Soluble | Leach | DI Leach | | | 5.05 g | 50 mL | 97270 | 12/06/24 11:07 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 97312 | 12/07/24 00:04 | CH | EET MID |

## Client Sample ID: EMW-NORTHA
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**

**Lab Sample ID: 890-7434-8**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 5.02 g | 5 mL | 97132 | 12/05/24 09:37 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 97121 | 12/05/24 11:59 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 97281 | 12/05/24 11:59 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 97252 | 12/06/24 02:02 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.01 g | 10 mL | 96946 | 12/03/24 09:41 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 97128 | 12/06/24 02:02 | TKC | EET MID |
| Soluble | Leach | DI Leach | | | 4.97 g | 50 mL | 97270 | 12/06/24 11:07 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 97312 | 12/07/24 00:10 | CH | EET MID |

## Client Sample ID: EMW-NORTHA
**Date Collected: 12/03/24 00:00**
**Date Received: 12/04/24 09:34**

**Lab Sample ID: 890-7434-9**
**Matrix: Solid**

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab |
|---|---|---|---|---|---|---|---|---|---|---|
| Total/NA | Prep | 5035 | | | 4.98 g | 5 mL | 97132 | 12/05/24 09:37 | EL | EET MID |
| Total/NA | Analysis | 8021B | | 1 | 5 mL | 5 mL | 97121 | 12/05/24 12:20 | EL | EET MID |
| Total/NA | Analysis | Total BTEX | | 1 | | | 97281 | 12/05/24 12:20 | SM | EET MID |
| Total/NA | Analysis | 8015 NM | | 1 | | | 97252 | 12/06/24 02:18 | SM | EET MID |
| Total/NA | Prep | 8015NM Prep | | | 10.06 g | 10 mL | 96946 | 12/03/24 09:41 | EL | EET MID |
| Total/NA | Analysis | 8015B NM | | 1 | 1 uL | 1 uL | 97128 | 12/06/24 02:18 | TKC | EET MID |
| Soluble | Leach | DI Leach | | | 5.03 g | 50 mL | 97270 | 12/06/24 11:07 | SA | EET MID |
| Soluble | Analysis | 300.0 | | 1 | 50 mL | 50 mL | 97312 | 12/07/24 00:15 | CH | EET MID |

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

# Accreditation/Certification Summary

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

## Laboratory: Eurofins Midland

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

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

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 |
|---|---|---|---|
| 8015 NM | | Solid | Total TPH |
| Total BTEX | | Solid | Total BTEX |

# Method Summary

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

| Method | Method Description | Protocol | Laboratory |
|---|---|---|---|
| 8021B | Volatile Organic Compounds (GC) | SW846 | EET MID |
| Total BTEX | Total BTEX Calculation | TAL SOP | EET MID |
| 8015 NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 8015B NM | Diesel Range Organics (DRO) (GC) | SW846 | EET MID |
| 300.0 | Anions, Ion Chromatography | EPA | EET MID |
| 5035 | Closed System Purge and Trap | SW846 | EET MID |
| 8015NM Prep | Microextraction | SW846 | EET MID |
| DI Leach | Deionized Water Leaching Procedure | ASTM | EET MID |

**Protocol References:**

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

# Sample Summary

Client: NT Global
Project/Site: Dickinson Ranch

Job ID: 890-7434-1
SDG: 237796

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Depth |
|---|---|---|---|---|---|
| 890-7434-1 | EMW-6A | Solid | 12/02/24 00:00 | 12/04/24 09:34 | 5' |
| 890-7434-2 | EMW-6A | Solid | 12/02/24 00:00 | 12/04/24 09:34 | 30' |
| 890-7434-3 | EMW-6A | Solid | 12/02/24 00:00 | 12/04/24 09:34 | 70' |
| 890-7434-4 | EMW-SOUTHA | Solid | 12/03/24 00:00 | 12/04/24 09:34 | 10' |
| 890-7434-5 | EMW-SOUTHA | Solid | 12/03/24 00:00 | 12/04/24 09:34 | 35' |
| 890-7434-6 | EMW-SOUTHA | Solid | 12/03/24 00:00 | 12/04/24 09:34 | 80' |
| 890-7434-7 | EMW-NORTHA | Solid | 12/03/24 00:00 | 12/04/24 09:34 | 20' |
| 890-7434-8 | EMW-NORTHA | Solid | 12/03/24 00:00 | 12/04/24 09:34 | 65' |
| 890-7434-9 | EMW-NORTHA | Solid | 12/03/24 00:00 | 12/04/24 09:34 | 80' |

# Chain of Custody

NTG ENVIRONMENTAL

**Work Order No:** _____

12/10/2024

1___ of __1___

890-7434 Chain of Custody

☐ Superfund ☐

☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

| | | | |
|---|---|---|---|
| Project Manager: | Ethan Sessums | Bill to: (if different) | Wesley Matthews |
| Company Name: | NTG Environmental | Company Name: | Devon Energy |
| Address: | 209 W McKay St | Address: | 6488 Seven Rivers Highway |
| City, State ZIP: | Carlsbad, NM 88220 | City, State ZIP: | Artesia, NM 88210 |
| Phone: | (432) 701-2159 | Email: | Wesley.Matthews@dvn.com |

| | | | |
|---|---|---|---|
| Project Name: | Dickinson Ranch | Turn Around | ☑ Routine ☐ Rush |
| Project Number: | 237796 | Due Date: | |
| Project Location | Lea Co, NM | TAT starts the day received by the lab, if received by 4:30pm | |
| Sampler's Name: | Tyler Kimball | | |
| PO #: | 1094698801 | | |

| SAMPLE RECEIPT | | | |
|---|---|---|---|
| Temp Blank: | (Yes) No | Wet Ice: | (Yes) No |
| Received Intact: | (Yes) No | Thermometer ID: | IR#2 |
| Cooler Custody Seals: | Yes No (N/A) | Correction Factor: | -0.2 |
| Sample Custody Seals: | Yes No (N/A) | Temperature Reading: | -0.4 |
| Total Containers: | 9 | Corrected Temperature: | -0.2 |

| Sample Identification | Depth | Date | Time | Soil | Water | Grab/ Comp | # of Cont | BTEX 8021B | TPH 8015M ( GRO + DRO + MRO) | Chloride 300 | HOLD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| EMW-6A | (5') | 12/2/2024 | | x | | Grab/ | 1 | x | x | x | |
| EMW-6A | (30') | 12/2/2024 | | x | | Grab/ | 1 | x | x | x | |
| EMW-6A | (70') | 12/2/2024 | | x | | Grab/ | 1 | x | x | x | |
| EMW-SouthA | (10') | 12/3/2024 | | x | | Grab/ | 1 | x | x | x | |
| EMW-SouthA | (35') | 12/3/2024 | | x | | Grab/ | 1 | x | x | x | |
| EMW-SouthA | (80') | 12/3/2024 | | x | | Grab/ | 1 | x | x | x | |
| EMW-NorthA | (20') | 12/3/2024 | | x | | Grab/ | 1 | x | x | x | |
| EMW-NorthA | (65') | 12/3/2024 | | x | | Grab/ | 1 | x | x | x | |
| EMW-NorthA | (80') | 12/3/2024 | | x | | Grab/ | 1 | x | x | x | |
| | | | | | | | | | | | |

**Preservative Codes**

None: NO; DI Water: $H_2O$; Cool: Cool; MeOH: Me; HCL: HC; $HNO_3$: HN; $H_2S0_4$: $H_2$; NaOH: Na; $H_3PO_4$: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

**Sample Comments**

**Additional Comments:**



| Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|---|---|---|---|---|
| Tyler Kimball | | 9:30 12-4 | 2 | | |
| 3 | | | 4 | | |
| 5 | | | 6 | | |

Revised Date 05012020 Rev. 2020.1

# Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-7434-1
SDG Number: 237796

**Login Number: 7434**
**List Number: 1**
**Creator: Lopez, Abraham**

**List Source: Eurofins Carlsbad**

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

# Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-7434-1
SDG Number: 237796

**Login Number: 7434**
**List Number: 2**
**Creator: Laing, Edmundo**

**List Source: Eurofins Midland**
**List Creation: 12/04/24 09:07 PM**

| 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 | |

# ATTACHMENT D: SOIL BORING LOGS AND MONITOR WELL COMPLETION DIAGRAMS

NTG ENVIRONMENTAL

SITE ASSESSMENT REPORT
Devon Energy
Dickinson WW
Lea County, New Mexico
Project No. 237796

# BORING LOG - MW-6A

(Page 1 of 2)

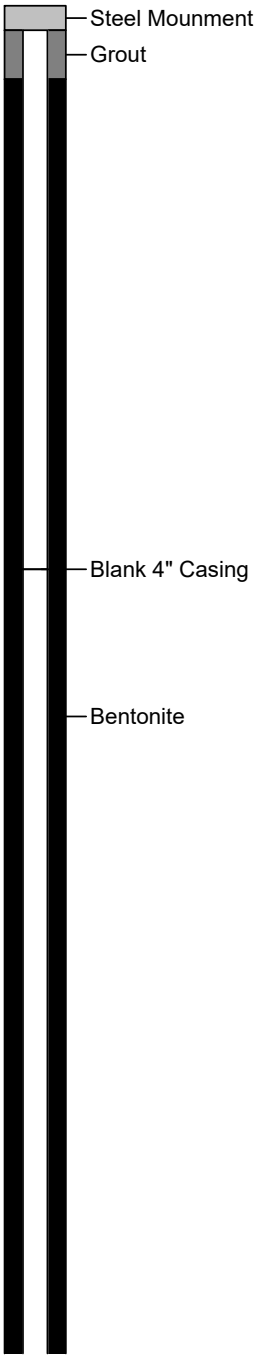
| | |
|---|---|
| Date Drilled | : 12/03/24 |
| Hole Diameter | : 6 1/4 in. |
| Drilling Method | : Air Rotary |
| Company Rep | : Tyler Kimball |
| Latitude / Longitude | : 33.042458, -103.158832 |
| Depth to Water | : 77 ft |

Sample Legend: Soil Sample

Water Levels: 77 ft

Well: MW-6A

| Depth in Feet | USCS | Field CL (mg/kg) | Field PID (mg/kg) | Lithology | Sample | Water Level | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 0 | | | | | | | Brown sandy clay |
| 2 | | 1,020 | 5.2 | | | | Light Brown Limestone |
| 4 | | | | | | | Buff Limestone |
| 6 | | | | | | | |
| 8 | | 780 | 2.7 | | | | |
| 10 | | | | | | | |
| 12 | | | | | | | |
| 14 | | 680 | 4 | | | | |
| 16 | | | | | | | |
| 18 | | 330 | 2.4 | | | | Light brown fine grain sand |
| 20 | | | | | | | |
| 22 | | 230 | 3.2 | | | | |
| 24 | | | | | | | |
| 26 | | | | | | | |
| 28 | | 294 | 3.2 | | | | |
| 30 | | | | | | | |
| 32 | | | | | | | |
| 34 | | 225 | 3.2 | | | | |
| 36 | | | | | | | |
| 38 | | 205 | 2.9 | | | | Tan to light brown fine grain sand, semi consolidated |
| 40 | | | | | | | |
| 42 | | | | | | | |
| 44 | | 170 | 2.8 | | | | |
| 46 | | | | | | | |
| 48 | | 176 | 1.4 | | | | Light brown sand intermixed with layer of brown sand, semi-consolidated |
| 50 | | | | | | | |
| 52 | | | | | | | |
| 54 | | 160 | 0.4 | | | | |



NTG ENVIRONMENTAL

SITE ASSESSMENT REPORT
Devon Energy
Dickinson WW
Lea County, New Mexico
Project No. 237796

# BORING LOG - MW-6A

(Page 2 of 2)

| | |
|---|---|
| Date Drilled | : 12/03/24 |
| Hole Diameter | : 6 1/4 in. |
| Drilling Method | : Air Rotary |
| Company Rep | : Tyler Kimball |
| Latitude / Longitude | : 33.042458, -103.158832 |
| Depth to Water | : 77 ft |

Sample Legend: Soil Sample

Water Levels: 77 ft

Well: MW-6A

| Depth in Feet | USCS | Field CL (mg/kg) | Field PID (mg/kg) | Lithology | Sample | Water Level | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 55–109 | | 174 | 2.9 | | | | Light brown sand intermixed with layer of brown sand, semi-consolidated |
| | | 154 | 3.0 | | | | |
| | | 88 | 3.5 | | | | |
| | | 64 | 3.2 | | | | |
| | | 63 | 2.7 | | | | |
| | | | | | | | Boring Terminated at 100' |

Bentonite
68'
70'
Sand Pack (8/16)
(.020") Slot Screen
100'

NTG ENVIRONMENTAL

SITE ASSESSMENT REPORT
Devon Energy
Dickinson WW
Lea County, New Mexico
Project No. 237796

# BORING LOG - MW-North-A

(Page 1 of 2)

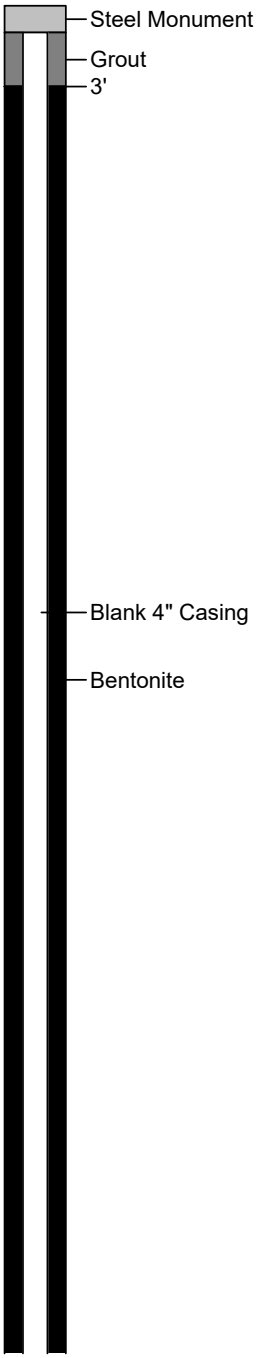
| | |
|---|---|
| Date Drilled | : 12/03/24 |
| Hole Diameter | : 6 1/4 in. |
| Drilling Method | : Air Rotary |
| Company Rep | : Tyler Kimball |
| Latitude / Longitude | : 33.043005, -103.158150 |
| Depth to Water | : 77 ft |

Sample Legend: Soil Sample

Water Levels: 77 ft

Well: North-A

| Depth in Feet | USCS | Field CL (mg/kg) | Lab CL (mg/kg) | Lithology | Sample | Water Level | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 0–2 | | | | | | | Brown sandy clay |
| 2–20 | | 79 | 1.3 | | | | Buff Limestone |
| | | 71 | 1.9 | | | | |
| | | 45 | 1.9 | | | | |
| | | 54 | 3 | | | | |
| 20–28 | | 51 | 5.1 | | | | Light brown fine grain sand |
| 28–34 | | 48 | 5.6 | | | | Light tan sand intermixed with limestone |
| 34–50 | | 42 | 3 | | | | Light brown well sorted fine grain sand |
| | | 42 | 2.7 | | | | |



NTG ENVIRONMENTAL

SITE ASSESSMENT REPORT
Devon Energy
Dickinson WW
Lea County, New Mexico
Project No. 237796

# BORING LOG - MW-North-A

(Page 2 of 2)

| | |
|---|---|
| Date Drilled | : 12/03/24 |
| Hole Diameter | : 6 1/4 in. |
| Drilling Method | : Air Rotary |
| Company Rep | : Tyler Kimball |
| Latitude / Longitude | : 33.043005, -103.158150 |
| Depth to Water | : 77 ft |

Sample Legend: Soil Sample

Water Levels: 77 ft

Well: North-A

| Depth in Feet | USCS | Field CL (mg/kg) | Lab CL (mg/kg) | Lithology | Sample | Water Level | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 50–78 | | | | | | | Light brown well sorted fine grained sand |
| 54 | | 37 | 5.4 | | | | |
| 58 | | 51 | 5.2 | | | | |
| 64 | | 56 | 6.3 | | | | |
| 70 | | 56 | 5.2 | | | | |
| 72 | | 52 | 6.2 | | | | |
| 78–100 | | 73 | 6.2 | | | | Brown fine grained sand |
| 86 | | 57 | 5.7 | | | | |
| 90 | | 57 | 4.3 | | | | |
| 96 | | 66 | 5.5 | | | | |
| 100 | | 68 | 6.2 | | | | |

Blank 4" Casing
Bentonite
68'
77'
Screen (0.020")
Sand Pack (8/16)
100'

NTG ENVIRONMENTAL

SITE ASSESSMENT REPORT
Devon Energy
Dickinson WW
Lea County, New Mexico
Project No. 237796

# BORING LOG - MW-South-S

(Page 1 of 2)

| | |
|---|---|
| Date Drilled | : 12/03/24 |
| Hole Diameter | : 6 1/4 in. |
| Drilling Method | : Air Rotary |
| Company Rep | : Tyler Kimball |
| Latitude / Longitude | : 33.042424, -103.158158 |
| Depth to Water | : 77 ft |

Sample Legend: Soil Sample

Water Levels: 77 ft

Well: South-S

| Depth in Feet | USCS | Field CL (mg/kg) | Lab CL (mg/kg) | Lithology | Sample | Water Level | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 0–18 | | | | | | | Brown sandy clay / Buff Limestone |
| 4 | | 79 | 1.3 | | | | |
| 8 | | 71 | 1.9 | | | | |
| 14 | | 45 | 1.9 | | | | |
| 18–38 | | 54 | 3 | | | | Light brown fine grain sand |
| 20 | | 51 | 5.1 | | | | |
| 28 | | 48 | 5.6 | | | | |
| 34 | | 42 | 3 | | | | |
| 38–46 | | 43 | 6.1 | | | | Light tan well sorted sand |
| 46–54 | | 47 | 5.6 | | | | Light brown well sorted fine grain sand |
| 50 | | 42 | 2.7 | | | | |
| 54 | | 37 | 5.4 | | | | |

Steel Monoment
Grout
Blank 4" 40 ML Riser
Bentonite

NTG ENVIRONMENTAL

SITE ASSESSMENT REPORT
Devon Energy
Dickinson WW
Lea County, New Mexico
Project No. 237796

# BORING LOG - MW-South-S

(Page 2 of 2)

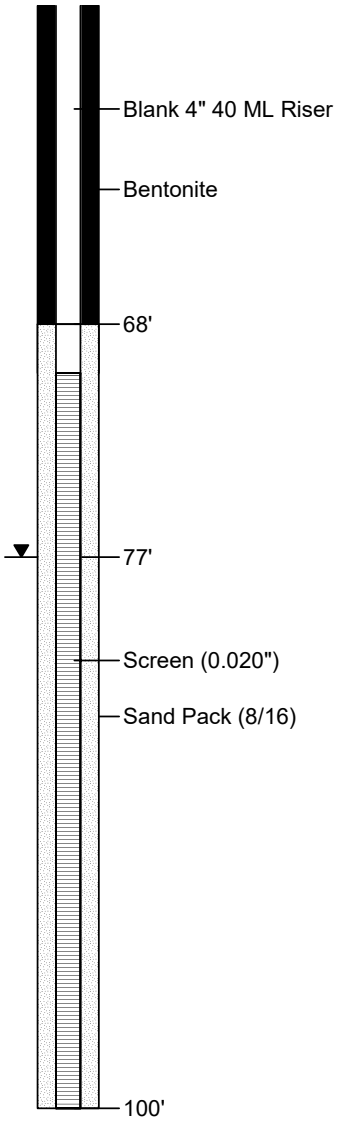
| | |
|---|---|
| Date Drilled | : 12/03/24 |
| Hole Diameter | : 6 1/4 in. |
| Drilling Method | : Air Rotary |
| Company Rep | : Tyler Kimball |
| Latitude / Longitude | : 33.042424, -103.158158 |
| Depth to Water | : 77 ft |

Sample Legend: Soil Sample

Water Levels: 77 ft

Well: South-S

| Depth in Feet | USCS | Field CL (mg/kg) | Lab CL (mg/kg) | Lithology | Sample | Water Level | DESCRIPTION |
|---|---|---|---|---|---|---|---|
| 55–109 | | 51 | 5.2 | | | | Light brown well sorted fine grain sand |
| | | 56 | 6.3 | | | | |
| | | 56 | 6.3 | | | | |
| | | 52 | 6.2 | | | | |
| | | 73 | 6.2 | | | | |
| | | 57 | 5.7 | | | | |
| | | 57 | 4.3 | | | | |
| | | 66 | 5.5 | | | | |
| | | 68 | 6.2 | | | | |



# ATTACHMENT E: SITE PHOTOGRAPHS

# PHOTOGRAPHIC LOG

**Devon Energy**

**Photograph No. 1**

**Facility:** Dickinson WW

**County:** Lea County, NM

**Date:** 12/03/2024


**Description:**
Removed monitor well MW-N

**Photograph No. 2**

**Facility:** Dickinson WW

**County:** Lea County, NM

**Date:** 12/03/2024


**Description:**
Removed monitor well MW-S

# PHOTOGRAPHIC LOG

**Devon Energy**

**Photograph No. 3**

**Facility:** Dickinson WW

**County:** Lea County, NM

**Date:** 12/03/2024


**Description:**
Removed monitor well MW-6

**Photograph No. 4**

**Facility:** Dickinson WW

**County:** Lea County, NM

**Date:** 12/03/2024


**Description:**
Removed Steel Surface casing.

# PHOTOGRAPHIC LOG

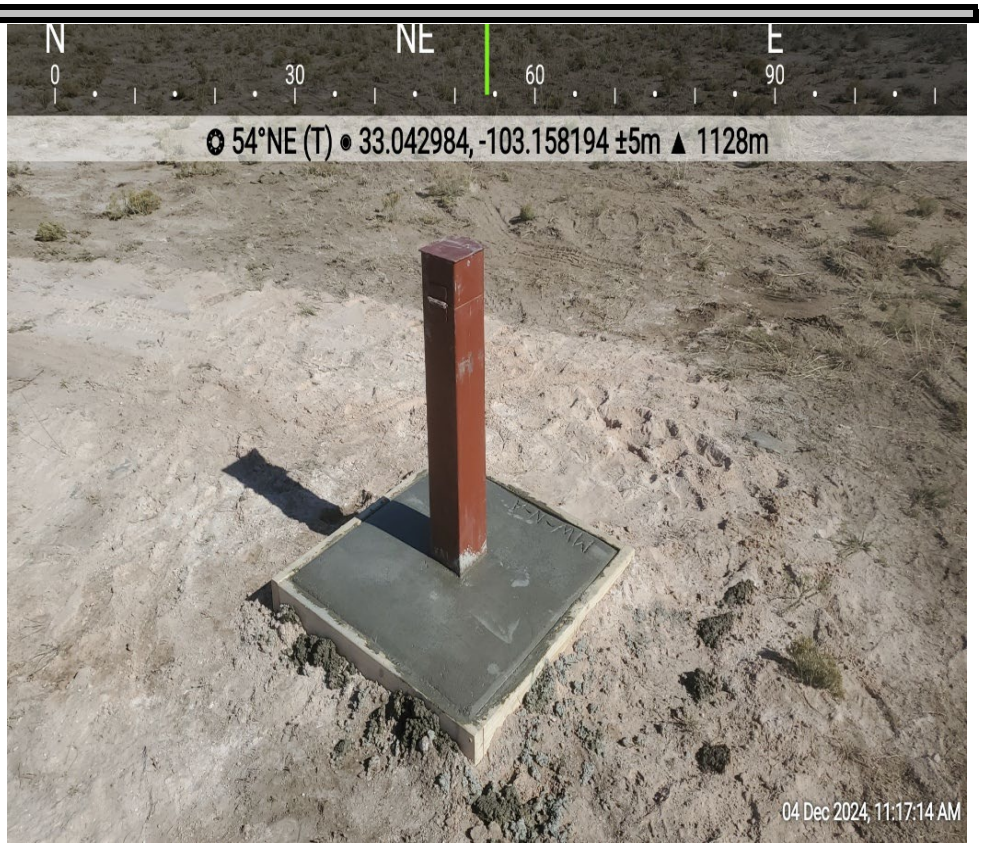
**Devon Energy**

**Photograph No. 5**

**Facility:** Dickinson WW

**County:** Lea County, NM

**Date:** 12/04/2024




**Description:**
Completed monitor well MW-N-A

**Photograph No. 6**

**Facility:** Dickinson WW

**County:** Lea County, NM

**Date:** 12/04/2024


**Description:**
Completed monitor well MW-6A

# PHOTOGRAPHIC LOG

**Devon Energy**

**Photograph No. 7**

**Facility:** Dickinson WW

**County:** Lea County, NM

**Date:** 12/04/2024


**Description:**
View of remediation.

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

| Operator: | OGRID: |
|---|---|
| DEVON ENERGY PRODUCTION COMPANY, LP<br>333 West Sheridan Ave.<br>Oklahoma City, OK 73102 | 6137 |
| | Action Number:<br>458733 |
| | Action Type:<br>[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| michael.buchanan | Review of the 2025 Q1 Groundwater Monitoring Report for Historic Dickinson Tank Battery Release: content satisfactory 1. Continue to conduct groundwater sampling as prescribed for BTEX, TPH and Chloride on a quarterly calendar schedule. 2. Submit the 2025 Q2 groundwater monitoring report to OCD no later than August 1, 2025. | 5/9/2025 |