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

October 28, 2024

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Closure Report
Chevron North America Exploration and Production Company
Hayhurst NM Section 12 CTB
Unit G, Section 12, Township 26S, Range 27E
Site Coordinates: 32.05915845, -104.1430482
Eddy County, New Mexico
Incident ID: nAPP2415939361

Introduction

On behalf of Chevron North America Exploration and Production Company (Chevron), New Tech Global Environmental, LLC (NTGE) has prepared this Closure Request for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment, remedial action activities, and sample analysis results for the release number: nAPP2415939361 – Hayhurst NM Section 12 CTB (Site). The Site is in Unit Letter G, Section 12, of Township 26 South and Range 27 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.05915845° N latitude and 104.1430482° W longitude. The site location with respect to the nearest town is shown on Figure 1 and the topography of the area is shown on Figure 2.

Background

Based on the Release Notification C-141 Form, the release was discovered on June 01, 2024, and was due to corrosion. Upon discovery, the Site was shut-in and repairs ensued. The spill resulted in a release of approximately two (2) barrels (bbls) of crude oil and five (5) bbls of produced water of which none were recovered for an approximate net loss of two (2) bbls of crude oil and five (5) bbls of produced water. Chevron had the saturated soils removed and disposed of at an approved disposal facility. The release area is shown on Figure 3.

Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers and USGS databases, there are no known water sources within a ½-mile radius of the Site. No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the Site is located within a Medium Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are attached to the report.

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Medium Karst	Unknown

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	GRO+DRO	BTEX	Benzene
19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

Initial Soil Delineation Assessment Summary and Findings

On August 29, 2024, NTGE conducted site assessment activities to assess the extent of impacts at the Site. Three (3) vertical delineation sample points (V-1 through V-3) were installed within the release area, while six (6) horizontal delineation sample points (H-1 through H-6) were installed adjacent to the release area in order to characterize the impacts. Soil samples were collected at half-foot (0.5) to one (1) foot (ft) intervals from depths ranging from zero (0) to two and a half (2.5) ft below ground surface (bgs) with a geotechnical hand auger. The hand auger was decontaminated with Alconox and deionized water between soil samples to prevent cross-contamination. Soil samples were placed directly into laboratory provided samples containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico for analysis of benzene, toluene, ethylbenzene, and xylene (BTEX) (by EPA Method 8021B), total petroleum hydrocarbon (TPH) (by EPA method 8015 modified), and chloride (method SM4500Cl-B). Analytical results indicated that chloride and TPH concentrations exceeded the NMOCD regulatory limits in the area of V-2 to a depth of zero to a half-foot (0-0.5) ft bgs. All other samples were below NMOCD regulatory limits.

Analytical results are included in Table 1, while soil boring locations are shown on Figure 3. Laboratory reports containing analytical methods and chain-of-custody documents are attached to the report.

Remedial Action Activities and Confirmation Sampling

Based on the Site assessment activities and analytical results, Chevron proceeded with remedial action activities at the Site to include the excavation and disposal of impacted soils above regulatory limits for V-2.

After the excavation of impacted soil was completed by Hydro-Con, on October 16, 2024, composite confirmation samples were collected by NTGE throughout the base and sidewall areas to ensure impacted soil was removed. A total of one (1) composite bottom hole confirmation sample (CS-1) and one (1) composite sidewall confirmation sample (SW-1) were collected. The confirmation samples were collected in accordance with the one sample per 200 ft^2 guideline established in the regulatory criteria. Samples were placed directly into laboratory provided sample containers, placed on ice, and transported under chain-of-custody protocol to Eurofins Laboratory in Carlsbad, New Mexico for analysis of BTEX, TPH, and chloride. Analytical results indicated that all samples were below NMOCD regulatory criteria for the site. The final excavation extent removed seventeen (17) cubic yards of impacted material, which was disposed of at the Red Bluff R360 disposal facility near Orla, Texas. The manifests are not included in this report but are available upon request. Confirmation sample locations are shown on Figure 4, while analytical results are included in Table 2 with laboratory reports attached.

Closure Request

Based on the initial assessment and subsequent remedial action activities, the Site is compliant with the regulatory limits and no further actions are required. On behalf of Chevron, NTGE formally requests a nor further action designation with closure to Incident ID: nAPP2415939361.

If you have any questions regarding this letter, please contact us at (432)-766-1918.

Sincerely,
NTG Environmental

Rebecca Haskell

Becky Haskell
Environmental Manager

Nick Hart

Nick Hart
Project Manager

Attachments:

Tables
Figures
Photographic Log
Site Characterization Documentation
Confirmation Sampling Notifications
Laboratory Reports and Chain-of-Custody Documents

TABLES

Table 1
Summary of Soil Analytical Data - Initial Assessment Samples
Hayhurst NM Section 12 CTB
Chevron North America Exploration and Production Company
Eddy Co., NM

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Vertical Delineation Samples													
V-1	8/29/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**176**
	8/29/2024	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**32.0**
V-2	8/29/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	**568**	**568**	**245**	**813**	**1,180**
	8/29/2024	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**32.0**
V-3	8/29/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**32.0**
	8/29/2024	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**16.0**
	8/29/2024	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48.0**
Horizontal Delineation Samples													
H-1	8/29/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**32.0**
H-2	8/29/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48.0**
H-3	8/29/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**48.0**
H-4	8/29/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**432**
H-5	8/29/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**32.0**
H-6	8/29/2024	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	**256**

Notes:

1. Values reported in mg/kg
2.< = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B
~~SP-1~~ Sample Point Excavated
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
9. --- Not Analyzed

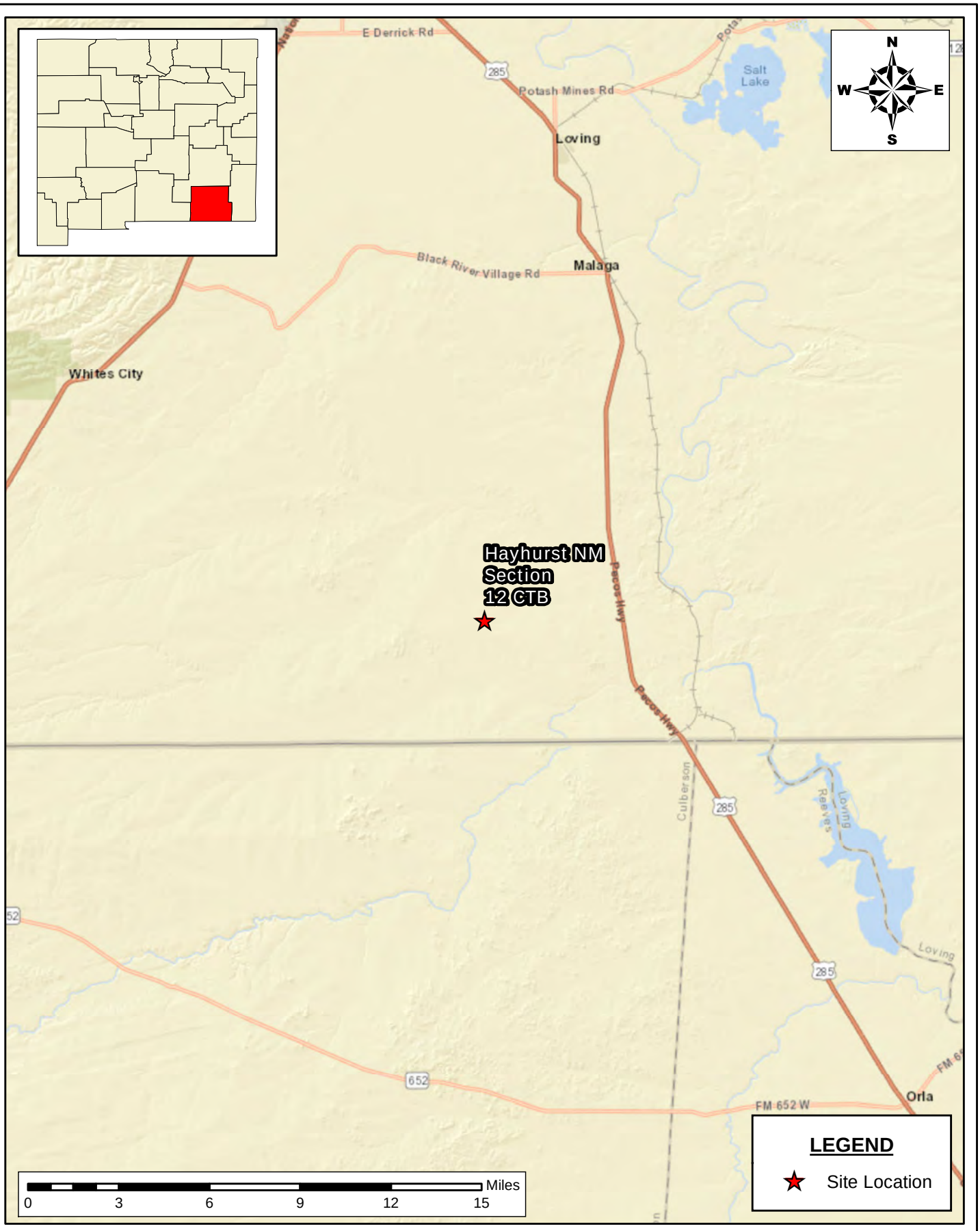
Table 2
Summary of Soil Analytical Data - Confirmation Samples
Hayhurst NM Section 12 CTB
Chevron North America Exploration and Production Company
Eddy Co., NM

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Bottom Hole Samples													
CS-1	10/16/2024	2'	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<49.8	<49.8	<49.8	<49.8	<49.8	**175**
Sidewall Samples													
SW-1	10/16/2024	0-2'	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.7	<49.7	<49.7	<49.7	<49.7	**304**

Notes:

1. Values reported in mg/kg
2.< = Value Less Than Reporting Limit (RL)
3. Bold indicates Analyte Detected
4. BTEX analyses by EPA Method SW 8021B
5. TPH analyses by EPA Method SW 8015 Mod.
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).
~~SP-1~~ Sample Point Excavated
9. --- Not Analyzed

FIGURES



SITE LOCATION MAP
SITE CHARACTERIZATION AND REMEDIATION WORKPLAN
HAYHURST NM SECTION 12 CTB
CHEVRON NORTH AMERICA EXPLORATION AND PRODUCTION COMPANY
EDDY COUNTY, NEW MEXICO

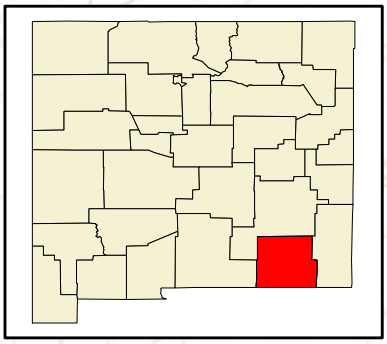
SCALE: As Shown	Date: 9/9/2024	PROJECT #: 248816

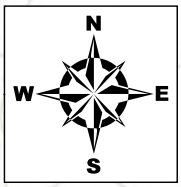
New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntgenvironmental.com

NOTES:
1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 1
SHEET NUMBER:
1 of 1

Document Path: C:\Users\ntgegis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\RSC\248541 - Marwari 28 CTB 2 (231H)\7 - Figures\GIS\Figure_1_SL.mxd





RED BLUFF DRAW

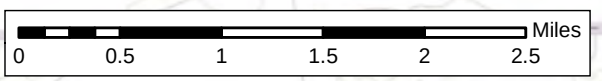
Apple Draw

3250 ft

Hayhurst NM
Section
12 CTB

3141 ft

Willhoit Ranch Rd



LEGEND

Site Location

TOPOGRAPHIC MAP
SITE CHARACTERIZATION AND REMEDIATION WORKPLAN
HAYHURST NM SECTION 12 CTB
CHEVRON NORTH AMERICA EXPLORATION AND PRODUCTION COMPANY
EDDY COUNTY, NEW MEXICO

SCALE: As Shown	Date: 9/9/2024	PROJECT #: 248816

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

NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 2
SHEET NUMBER:
1 of 1

Document Path: C:\Users\ntgegis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\RSC\248541 - Marwari 28 CTB 2 (231H)\7 - Figures\GIS\Figure_1_SL.mxd

SITE ASSESSMENT SAMPLING MAP
SITE CHARACTERIZATION AND REMEDIATION WORK PLAN
HAYHURST NM SECTION 12 CTB
CHEVRON NORTH AMERICA EXPLORATION AND PRODUCTION COMPANY
EDDY COUNTY, NEW MEXICO

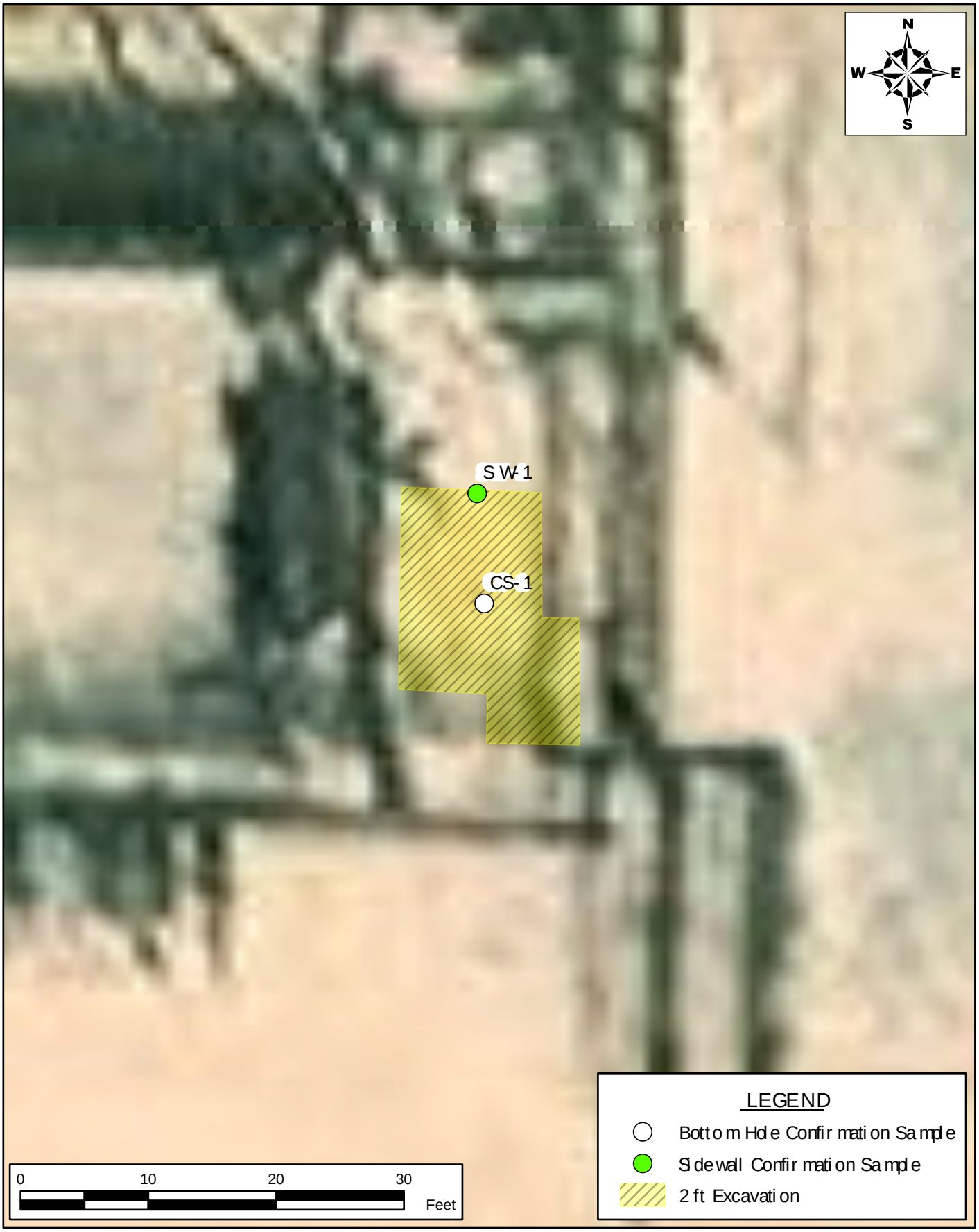
SCALE: AS SHOWN	DATE: 09/09/2024	PROJECT #: 248816

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

NOTES:
1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983

DRAWING NUMBER:
FIGURE 3
SHEET NUMBER:
1 of 1

Document Path: C:\Users\ntgegis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\DEVON\RSC\248541 - Marwari 28 CTB 2 (231H)\7 - Figures\GIS\Figure_3.mxd



CONFIRMATION SAMPLE MAP
SITE CHARACTERIZATION AND REMEDIATION CLOSURE REPORT
CHEVRON NORTH AMERICA EXPLORATION AND PRODUCTION COMPANY
HAYHURST NM SECTION 12 CTB
EDDY COUNTY, NORTH AMERICA

SCALE: As Shown | Date: 10/23/2024 | PROJECT #: 248816

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 4
SHEET NUMBER:
1 of 1

Document Path: C:\Users\ntgegis\Desktop\Geodatabase\Figure_4_ConfirmationSampleMap_10232024.aprx

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Chevron North America Exploration and Production Company

Photograph No. 1

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

Description:
Area of Concern.

Photograph No. 2

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

Description:
Area of Concern.

Photograph No. 3

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

Description:
Area of Concern.

PHOTOGRAPHIC LOG

Chevron North America Exploration and Production Company

Photograph No. 4

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

Description:
Area of Concern.

Photograph No. 5

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

Description:
Area of Concern.

Photograph No. 6

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

Description:
Area of Concern.

PHOTOGRAPHIC LOG

Chevron North America Exploration and Production Company

Photograph No. 7

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

Description:
Area of Concern.

Photograph No. 8

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

Description:
Area of Concern.

Photograph No. 9

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

Description:
Area of Concern.

PHOTOGRAPHIC LOG

Chevron North America Exploration and Production Company

Photograph No. 10

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

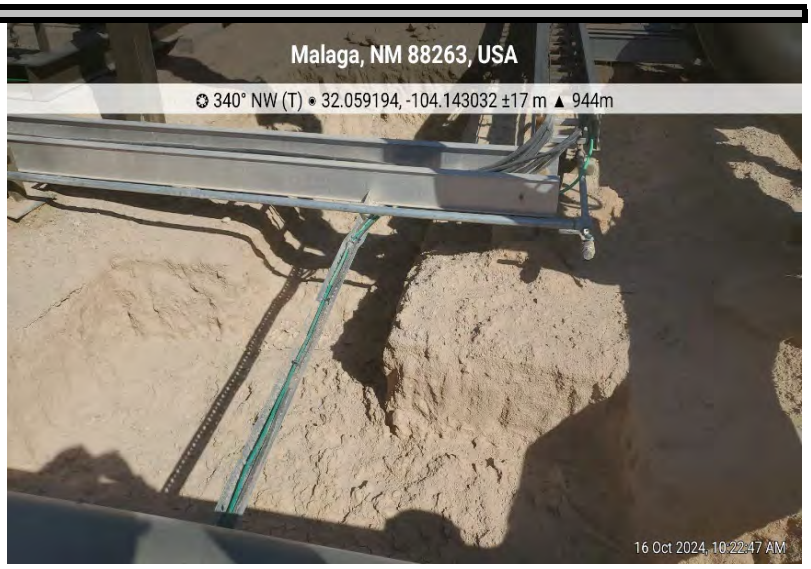
Description:
View of excavation and remediation.

Photograph No. 11

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

Description:
View of excavation and remediation.



Photograph No. 12

Facility: Hayhurst NM Section 12 CTB

County: Eddy County, New Mexico

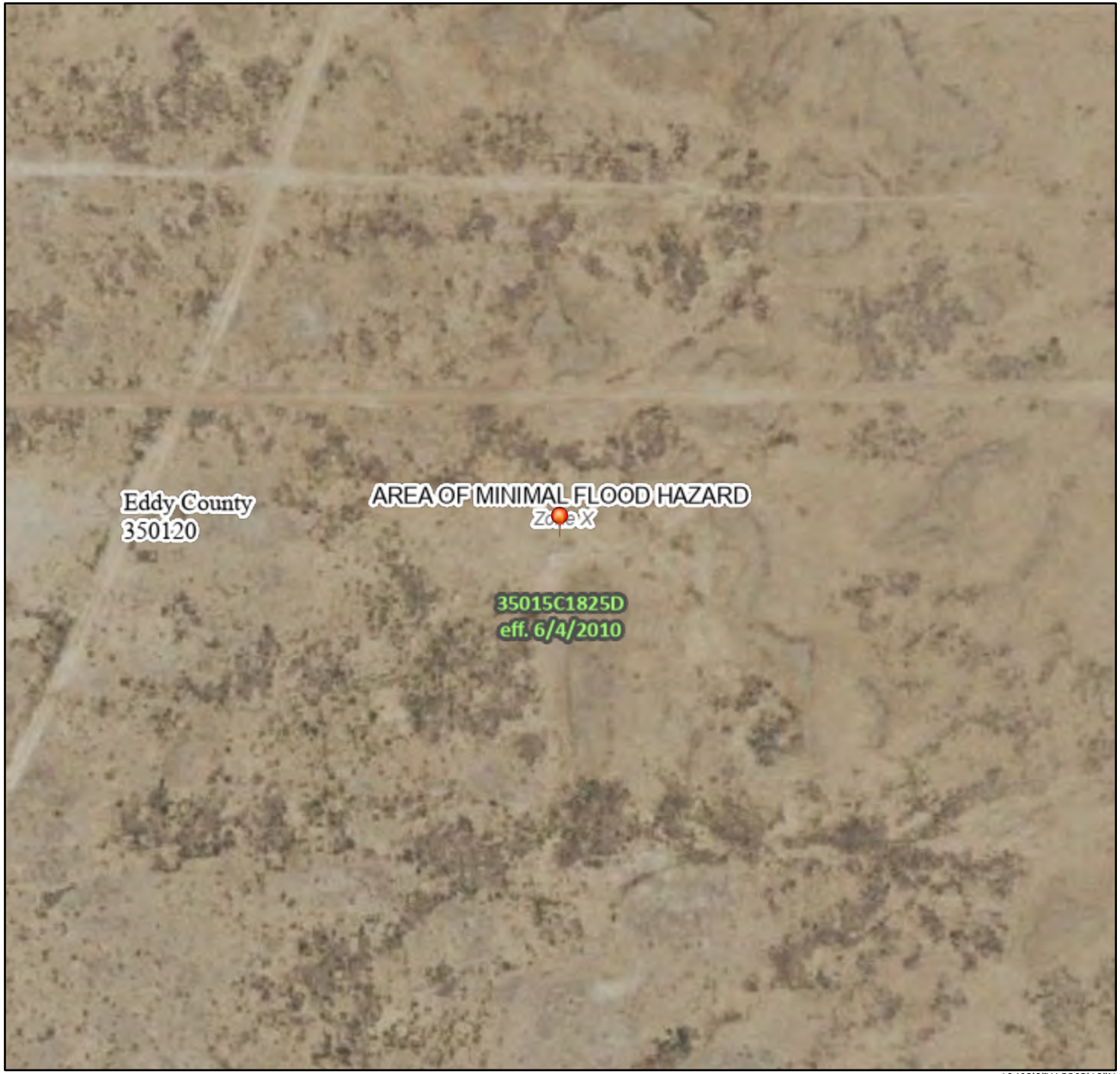
Description:
View of excavation and remediation.

SITE CHARACTERIZATION INFORMATION

National Flood Hazard Layer FIRMette

FEMA

104°8'47"W 32°3'48"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

104°8'9"W 32°3'18"N

Basemap Imagery Source: USGS National Map 2023

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

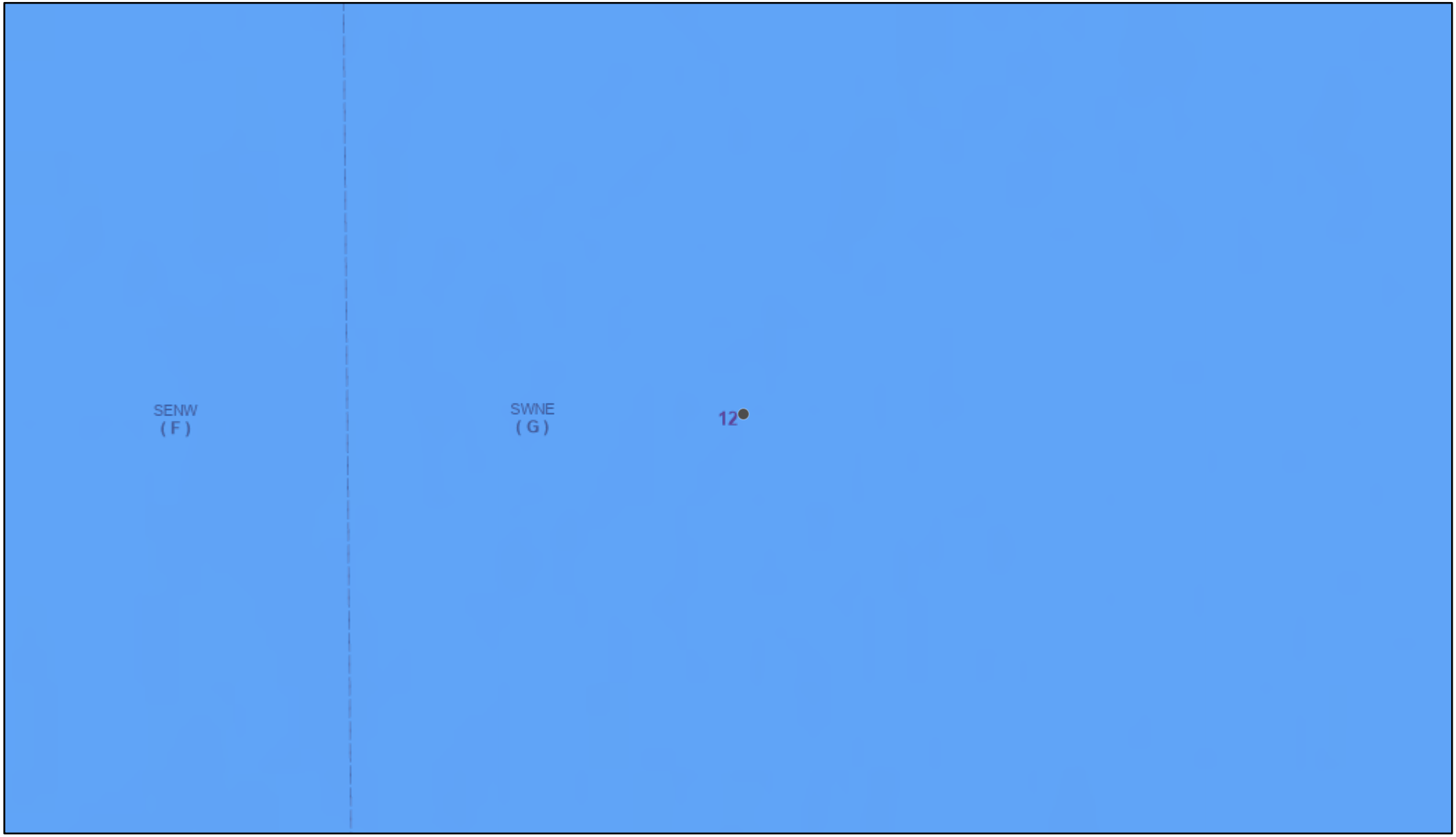
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/15/2024 at 3:01 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Karst Potential Map



9/9/2024, 1:39:41 PM

Karst Occurrence Potential

Medium

PLSS Second Division

PLSS First Division

1:1,128

0 0.01 0.01 0.03 mi

0 0.01 0.03 0.05 km

BLM, OCD, New Mexico Tech, Esri Community Maps Contributors, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS, Oil Conservation Division of the New Mexico Energy,

New Mexico Oil Conservation Division

OSE POD Location Map

8/15/2024, 1:46:56 PM

OSE District Boundary

Surface Water Basins

Lower Pecos

New Mexico State Trust Lands

Both Estates

1:18,056

0 0.13 0.25 0.5 mi

0 0.2 0.4 0.8 km

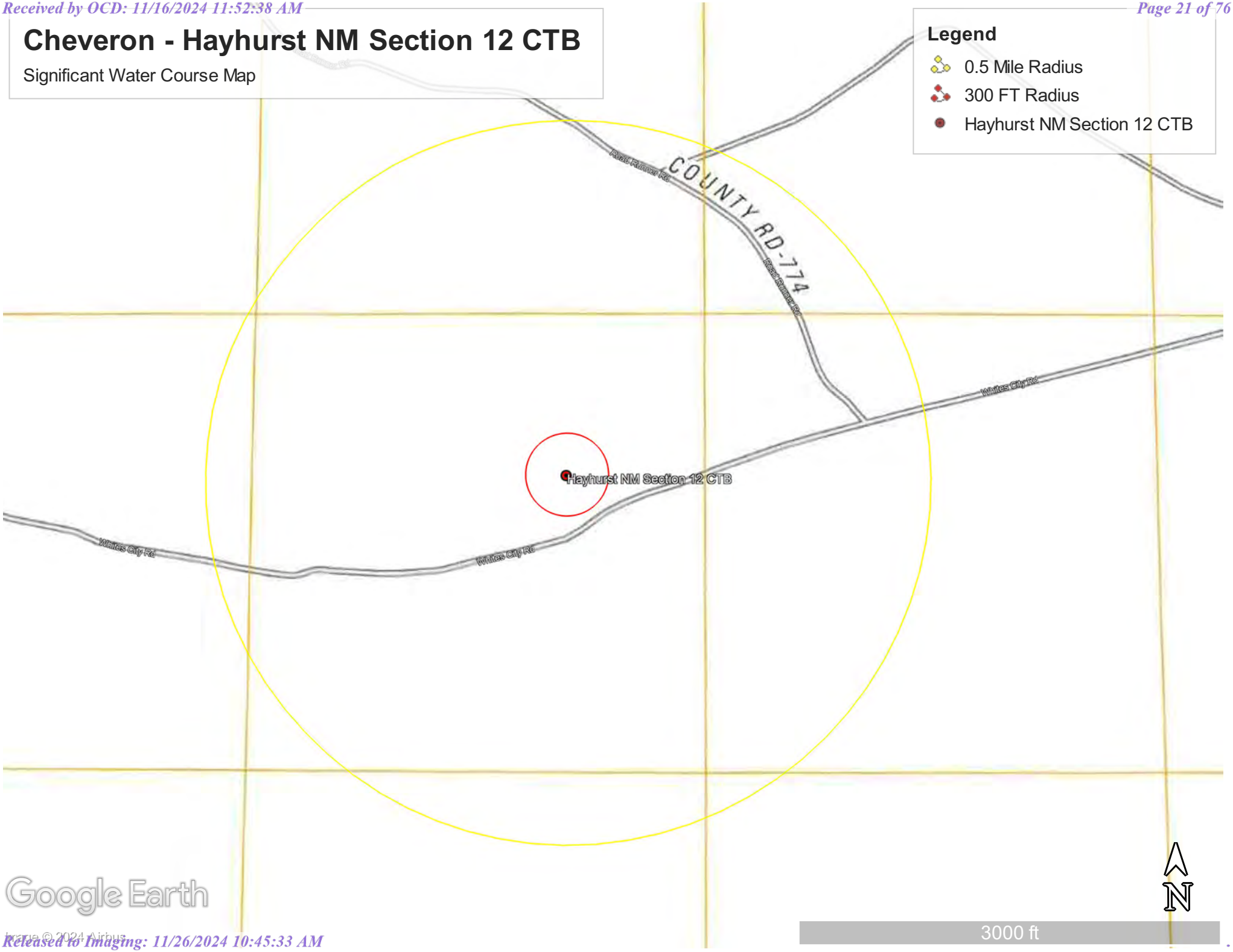
Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Online web user

This is an unofficial map from the OSE's online application.

Cheveron - Hayhurst NM Section 12 CTB

Significant Water Course Map



U.S. Fish and Wildlife Service
National Wetlands Inventory

Hayhurst NM Sction 12 CTB

August 15, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

CONFIRMATION SAMPLING NOTIFICATIONS

From: Steven Trammell
To: Becky Haskell
Subject: Fwd: The Oil Conservation Division (OCD) has accepted the application, Application ID: 391630
Date: Thursday, October 10, 2024 12:28:24 PM

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

For your records.
Sent from my iPhone

Begin forwarded message:

From: "Barnhill, Amy" <ABarnhill@chevron.com>
Date: October 10, 2024 at 12:22:57 PM CDT
To: Steven Trammell <strammell@hcexcavation.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 391630

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Thursday, October 10, 2024 12:20 PM
To: Barnhill, Amy <ABarnhill@chevron.com>
Subject: [**EXTERNAL**] The Oil Conservation Division (OCD) has accepted the application, Application ID: 391630

To whom it may concern (c/o Amy Barnhill for CHEVRON U S A INC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2415939361.

The sampling event is expected to take place:

When: 10/16/2024 @ 00:00
Where: G-12-26S-27E 0 FNL 0 FEL (32.05915845,-104.1430482)

Additional Information: Tyler Kimball 432-582-4051

Additional Instructions: 32.05915845 -104.1430482

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 09, 2024

BECKY HASKELL

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: HAYHURST NM SECTION 12 CTB

Enclosed are the results of analyses for samples received by the laboratory on 08/30/24 13:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
H - 1 0-6"	H245314-01	Soil	29-Aug-24 11:00	30-Aug-24 13:00
H - 2 0-6"	H245314-02	Soil	29-Aug-24 11:05	30-Aug-24 13:00
H - 3 0-6"	H245314-03	Soil	29-Aug-24 11:10	30-Aug-24 13:00
H - 4 0-6"	H245314-04	Soil	29-Aug-24 11:15	30-Aug-24 13:00
H - 5 0-6"	H245314-05	Soil	29-Aug-24 11:20	30-Aug-24 13:00
H - 6 0-6"	H245314-06	Soil	29-Aug-24 11:25	30-Aug-24 13:00
V - 1 0-0.5'	H245314-07	Soil	29-Aug-24 11:30	30-Aug-24 13:00
V - 1 1-1.5'	H245314-08	Soil	29-Aug-24 11:35	30-Aug-24 13:00
V - 2 0-0.5'	H245314-12	Soil	29-Aug-24 11:55	30-Aug-24 13:00
V - 2 1-1.5'	H245314-13	Soil	29-Aug-24 12:00	30-Aug-24 13:00
V - 3 0-0.5'	H245314-15	Soil	29-Aug-24 12:10	30-Aug-24 13:00
V - 3 1-1.5'	H245314-16	Soil	29-Aug-24 12:15	30-Aug-24 13:00
V - 3 2-2.5'	H245314-17	Soil	29-Aug-24 12:20	30-Aug-24 13:00

09/09/24 - Client changed the sample IDs on -01 thru -06 (see COC). This is the revised report and will replace the one sent on 09/05/24.

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

H - 1 0-6"

H245314-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*122 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*75.0 %*	*48.2-134*		*4083019*	MS	*30-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*93.9 %*	*49.1-148*		*4083019*	MS	*30-Aug-24*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

H - 2 0-6"

H245314-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*114 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*88.4 %*	*48.2-134*		*4083019*	MS	*30-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*109 %*	*49.1-148*		*4083019*	MS	*30-Aug-24*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

H - 3 0-6"

H245314-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*119 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*94.5 %*	*48.2-134*		*4083019*	MS	*30-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*118 %*	*49.1-148*		*4083019*	MS	*30-Aug-24*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

H - 4 0-6"

H245314-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**432**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*114 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*86.2 %*	*48.2-134*		*4083019*	MS	*30-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*107 %*	*49.1-148*		*4083019*	MS	*30-Aug-24*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

H - 5 0-6"

H245314-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*126 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*85.8 %*	*48.2-134*		*4083019*	MS	*30-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*105 %*	*49.1-148*		*4083019*	MS	*30-Aug-24*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

H - 6 0-6"

H245314-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**256**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*115 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*85.0 %*	*48.2-134*		*4083019*	MS	*30-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*106 %*	*49.1-148*		*4083019*	MS	*30-Aug-24*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

V - 1 0-0.5'

H245314-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**176**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*119 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	30-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*94.7 %*	*48.2-134*		*4083019*	MS	*30-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*117 %*	*49.1-148*		*4083019*	MS	*30-Aug-24*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

V - 1 1-1.5'

H245314-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*118 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*92.2 %*	*48.2-134*		*4083019*	MS	*31-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*113 %*	*49.1-148*		*4083019*	MS	*31-Aug-24*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

V - 2 0-0.5'

H245314-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**1180**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*120 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
DRO >C10-C28*	**568**		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
EXT DRO >C28-C36	**245**		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*96.9 %*	*48.2-134*		*4083019*	MS	*31-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*129 %*	*49.1-148*		*4083019*	MS	*31-Aug-24*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

V - 2 1-1.5'

H245314-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*133 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*94.8 %*	*48.2-134*		*4083019*	MS	*31-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*116 %*	*49.1-148*		*4083019*	MS	*31-Aug-24*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

V - 3 0-0.5'

H245314-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**32.0**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*116 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*92.1 %*	*48.2-134*		*4083019*	MS	*31-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*117 %*	*49.1-148*		*4083019*	MS	*31-Aug-24*	*8015B*	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

V - 3 1-1.5'

H245314-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**16.0**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*129 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*100 %*	*48.2-134*		*4083019*	MS	*31-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*129 %*	*49.1-148*		*4083019*	MS	*31-Aug-24*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

V - 3 2-2.5'

H245314-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	**48.0**		16.0	mg/kg	4	4090329	CT	03-Sep-24	4500-Cl-B	
Volatile Organic Compounds by EPA Method 8021										
Benzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4083021	JH	31-Aug-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			*120 %*	*71.5-134*		*4083021*	JH	*31-Aug-24*	*8021B*	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10*	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4083019	MS	31-Aug-24	8015B	
Surrogate: 1-Chlorooctane			*102 %*	*48.2-134*		*4083019*	MS	*31-Aug-24*	*8015B*	
Surrogate: 1-Chlorooctadecane			*135 %*	*49.1-148*		*4083019*	MS	*31-Aug-24*	*8015B*	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4090329 - 1:4 DI Water										
Blank (4090329-BLK1)				Prepared & Analyzed: 03-Sep-24						
Chloride	ND	16.0	mg/kg							
LCS (4090329-BS1)				Prepared & Analyzed: 03-Sep-24						
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (4090329-BSD1)				Prepared & Analyzed: 03-Sep-24						
Chloride	464	16.0	mg/kg	400		116	80-120	3.51	20	

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4083021 - Volatiles										
Blank (4083021-BLK1)				Prepared: 30-Aug-24 Analyzed: 31-Aug-24						
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	*0.0575*		mg/kg	*0.0500*		*115*	*71.5-134*			
LCS (4083021-BS1)				Prepared: 30-Aug-24 Analyzed: 31-Aug-24						
Benzene	2.13	0.050	mg/kg	2.00		107	82.8-130			
Toluene	2.25	0.050	mg/kg	2.00		112	86-128			
Ethylbenzene	2.38	0.050	mg/kg	2.00		119	85.9-128			
m,p-Xylene	4.52	0.100	mg/kg	4.00		113	89-129			
o-Xylene	2.21	0.050	mg/kg	2.00		111	86.1-125			
Total Xylenes	6.73	0.150	mg/kg	6.00		112	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	*0.0540*		mg/kg	*0.0500*		*108*	*71.5-134*			
LCS Dup (4083021-BSD1)				Prepared: 30-Aug-24 Analyzed: 31-Aug-24						
Benzene	2.03	0.050	mg/kg	2.00		102	82.8-130	4.71	15.8	
Toluene	2.10	0.050	mg/kg	2.00		105	86-128	6.85	15.9	
Ethylbenzene	2.25	0.050	mg/kg	2.00		112	85.9-128	5.86	16	
m,p-Xylene	4.28	0.100	mg/kg	4.00		107	89-129	5.47	16.2	
o-Xylene	2.11	0.050	mg/kg	2.00		106	86.1-125	4.62	16.7	
Total Xylenes	6.39	0.150	mg/kg	6.00		106	88.2-128	5.19	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	*0.0537*		mg/kg	*0.0500*		*107*	*71.5-134*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL 701 TRADEWINDS BLVD. SUITE C MIDLAND TX, 79706	Project: HAYHURST NM SECTION 12 CTB Project Number: 248816 Project Manager: BECKY HASKELL Fax To:	Reported: 09-Sep-24 10:36

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4083019 - General Prep - Organics										
Blank (4083019-BLK1)				Prepared & Analyzed: 30-Aug-24						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	*48.8*		mg/kg	*50.0*		*97.7*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*60.7*		mg/kg	*50.0*		*121*	*49.1-148*			
LCS (4083019-BS1)				Prepared & Analyzed: 30-Aug-24						
GRO C6-C10	211	10.0	mg/kg	200		106	66.4-123			
DRO >C10-C28	225	10.0	mg/kg	200		112	66.5-118			
Total TPH C6-C28	436	10.0	mg/kg	400		109	77.6-123			
Surrogate: 1-Chlorooctane	*52.3*		mg/kg	*50.0*		*105*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*61.8*		mg/kg	*50.0*		*124*	*49.1-148*			
LCS Dup (4083019-BSD1)				Prepared & Analyzed: 30-Aug-24						
GRO C6-C10	210	10.0	mg/kg	200		105	66.4-123	0.544	17.7	
DRO >C10-C28	216	10.0	mg/kg	200		108	66.5-118	3.72	21	
Total TPH C6-C28	427	10.0	mg/kg	400		107	77.6-123	2.17	18.5	
Surrogate: 1-Chlorooctane	*49.0*		mg/kg	*50.0*		*98.0*	*48.2-134*			
Surrogate: 1-Chlorooctadecane	*58.1*		mg/kg	*50.0*		*116*	*49.1-148*			

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

Chain of Custody

NTG ENVIRONMENTAL

Work Order No: H245314

Page 1 of 2

Project Manager:	Becky Haskell	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland TX, 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

Work Order Comments

Program: UST/PS ☐ PR ☐ Brownfie ☐ s R ☐ Supe ☐

State of Project:

Reporting:Level ☐ Level ☐ PST/U ☐ TR ☐ P Le el

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Hayhurst NM Section 12 CTB	Turn Around	
Project Number:	248816	☑ Routine ☐ Rush	
Project Location	Lea County, New Mexico	Due Date:	
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	140
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	1.5
Total Containers:	18	Corrected Temperature:	0.9

ANALYSIS REQUEST

Sample Identification	FT (bgs) *	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD
H-1	0-0.5 6"	8/29/2024	11:00	X		Grab/	1		x	x	x	
H-2	0-0.5 6"	8/29/2024	11:05	X		Grab/	1		x	x	x	
H-3	0-0.5 6"	8/29/2024	11:10	X		Grab/	1		x	x	x	
H-4	0-0.5 6"	8/29/2024	11:15	X		Grab/	1		x	x	x	
H-5	0-0.5 6"	8/29/2024	11:20	X		Grab/	1		x	x	x	
H-6	0-0.5 6"	8/29/2024	11:25	X		Grab/	1		x	x	x	
V-1	0-0.5	8/29/2024	11:30	X		Grab/	1		x	x	x	
V-1	1-1.5	8/29/2024	11:35	X		Grab/	1		x	x	x	
V-1	2-2.5	8/29/2024	11:40	X		Grab/	1		x	x	x	
V-1	3-3.5	8/29/2024	11:45	X		Grab/	1		x	x	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

1
2
3
4
5
6
7
8
9
10

Additional Comments: NMOCD ID: * Customer requested Depth changes. KP. 9/6/24

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. Kenny Han	[signature]	8:30:241300	2		
3 [signature]			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Chain of Custody

NTG ENVIRONMENTAL

Work Order No: H245314

Page 2 of 2

Project Manager:	Becky Haskell	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland TX, 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

Work Order Comments

Program: UST/PS ☐ PR ☐ Brownfields ☐ RC ☐ Superfund ☐

State of Project:

Reporting: Level ☐ Level II ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Hayhurst NM Section 12 CTB	Turn Around	
Project Number:	248816	☑ Routine ☐ Rush	
Project Location	Lea County, New Mexico	Due Date:	
Sampler's Name:	Kenny Han	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Received Intact:	(Yes) No	Thermometer ID:	140
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.4
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	1.5
Total Containers:	18	Corrected Temperature:	0.9

Sample Identification	FT (bgs)	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	HOLD
V-1	4-4.5	8/29/2024	11:50	X		Grab/	1		x	x	x	
V-2	0-0.5	8/29/2024	11:55	X		Grab/	1		x	x	x	X
V-2	1-1.5	8/29/2024	12:00	X		Grab/	1		x	x	x	
V-2	2-2.5	8/29/2024	12:05	X		Grab/	1		x	x	x	
V-3	0-0.5	8/29/2024	12:10	X		Grab/	1		x	x	x	X
V-3	1-1.5	8/29/2024	12:15	X		Grab/	1		x	x	x	
V-3	2-2.5	8/29/2024	12:20	X		Grab/	1		x	x	x	
V-3	3-3.5	8/29/2024	12:25	X		Grab/	1		x	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

11
12
13
14
15
16
17
18

Additional Comments: NMOCD ID:

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1. Kenny Han	Shodriguez	8-30-24 1300	2		
3			4		
5			6		

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Becky Haskell
NT Global
701 Tradewinds Blvd
Midland, Texas 79706

Generated 10/18/2024 6:23:56 PM

JOB DESCRIPTION

HAYHURST NM SECTION 12 CTB
Lea County NM

JOB NUMBER

890-7255-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

my EOL

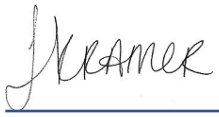
Eurofins Carlsbad

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
10/18/2024 6:23:56 PM

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

Client: NT Global
Project/Site: HAYHURST NM SECTION 12 CTB

Laboratory Job ID: 890-7255-1
SDG: Lea County NM

Table of Contents

Definitions/Glossary

Client: NT Global
Project/Site: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

Qualifiers

GC VOA

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

GC Semi 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
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: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1

Job ID: 890-7255-1 Eurofins Carlsbad

Job Narrative
890-7255-1

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 10/16/2024 3:50 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: CS - 1 (890-7255-1) and SW - 1 (890-7255-2).

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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-93520 and analytical batch 880-93537 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.

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-93553 and analytical batch 880-93566 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was 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: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

Client Sample ID: CS - 1

Lab Sample ID: 890-7255-1
Matrix: Solid
Date Collected: 10/16/24 09:00
Date Received: 10/16/24 15:50

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		10/17/24 08:13	10/17/24 19:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		10/17/24 08:13	10/17/24 19:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		10/17/24 08:13	10/17/24 19:15	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		10/17/24 08:13	10/17/24 19:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		10/17/24 08:13	10/17/24 19:15	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		10/17/24 08:13	10/17/24 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*	*10/17/24 08:13*	*10/17/24 19:15*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*10/17/24 08:13*	*10/17/24 19:15*	*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			10/17/24 19:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			10/17/24 14:15	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		10/17/24 09:02	10/17/24 14:15	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		10/17/24 09:02	10/17/24 14:15	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		10/17/24 09:02	10/17/24 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*75*		*70 - 130*	*10/17/24 09:02*	*10/17/24 14:15*	*1*
o-Terphenyl	*77*		*70 - 130*	*10/17/24 09:02*	*10/17/24 14:15*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**175**		10.1		mg/Kg			10/17/24 21:43	1

Client Sample ID: SW - 1

Lab Sample ID: 890-7255-2
Matrix: Solid
Date Collected: 10/16/24 09:05
Date Received: 10/16/24 15:50

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		10/17/24 08:13	10/17/24 19:35	1
Toluene	<0.00199	U	0.00199		mg/Kg		10/17/24 08:13	10/17/24 19:35	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		10/17/24 08:13	10/17/24 19:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		10/17/24 08:13	10/17/24 19:35	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		10/17/24 08:13	10/17/24 19:35	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		10/17/24 08:13	10/17/24 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*10/17/24 08:13*	*10/17/24 19:35*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/17/24 08:13*	*10/17/24 19:35*	*1*

Client Sample Results

Client: NT Global
Project/Site: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

Client Sample ID: SW - 1

Date Collected: 10/16/24 09:05
Date Received: 10/16/24 15:50

Lab Sample ID: 890-7255-2

Matrix: Solid

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			10/17/24 19:35	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			10/17/24 14:30	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	<49.7	U	49.7		mg/Kg		10/17/24 09:02	10/17/24 14:30	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		10/17/24 09:02	10/17/24 14:30	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		10/17/24 09:02	10/17/24 14:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*10/17/24 09:02*	*10/17/24 14:30*	*1*
o-Terphenyl	*73*		*70 - 130*	*10/17/24 09:02*	*10/17/24 14:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**304**		9.92		mg/Kg			10/17/24 21:49	1

Surrogate Summary

Client: NT Global
Project/Site: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

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)										
890-7244-A-1-B MS	Matrix Spike	112	97										
890-7244-A-1-C MSD	Matrix Spike Duplicate	113	97										
890-7255-1	CS - 1	127	94										
890-7255-2	SW - 1	129	92										
LCS 880-93511/1-A	Lab Control Sample	109	96										
LCSD 880-93511/2-A	Lab Control Sample Dup	112	95										
MB 880-93511/5-A	Method Blank	113	92										

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)										
880-49900-A-1-E MS	Matrix Spike	82	77										
880-49900-A-1-F MSD	Matrix Spike Duplicate	81	76										
890-7255-1	CS - 1	75	77										
890-7255-2	SW - 1	71	73										
LCS 880-93520/2-A	Lab Control Sample	123	118										
LCSD 880-93520/3-A	Lab Control Sample Dup	122	117										
MB 880-93520/1-A	Method Blank	92	101										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: NT Global
Project/Site: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-93511/5-A
Matrix: Solid
Analysis Batch: 93515

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 93511

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		10/17/24 08:13	10/17/24 11:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		10/17/24 08:13	10/17/24 11:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		10/17/24 08:13	10/17/24 11:33	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		10/17/24 08:13	10/17/24 11:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		10/17/24 08:13	10/17/24 11:33	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		10/17/24 08:13	10/17/24 11:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*10/17/24 08:13*	*10/17/24 11:33*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*10/17/24 08:13*	*10/17/24 11:33*	*1*

Lab Sample ID: LCS 880-93511/1-A
Matrix: Solid
Analysis Batch: 93515

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93511

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1060		mg/Kg		106	70 - 130
Toluene	0.100	0.1121		mg/Kg		112	70 - 130
Ethylbenzene	0.100	0.1122		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	0.200	0.2301		mg/Kg		115	70 - 130
o-Xylene	0.100	0.1130		mg/Kg		113	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 880-93511/2-A
Matrix: Solid
Analysis Batch: 93515

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93511

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1104		mg/Kg		110	70 - 130	4	35
Toluene	0.100	0.1178		mg/Kg		118	70 - 130	5	35
Ethylbenzene	0.100	0.1181		mg/Kg		118	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.2416		mg/Kg		121	70 - 130	5	35
o-Xylene	0.100	0.1190		mg/Kg		119	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*

Lab Sample ID: 890-7244-A-1-B MS
Matrix: Solid
Analysis Batch: 93515

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 93511

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09542		mg/Kg		95	70 - 130
Toluene	<0.00201	U	0.100	0.08962		mg/Kg		90	70 - 130

QC Sample Results

Client: NT Global
Project/Site: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

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

Lab Sample ID: 890-7244-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93515 — **Prep Batch: 93511**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00201	U	0.100	0.07943		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1610		mg/Kg		80	70 - 130
o-Xylene	<0.00201	U	0.100	0.07885		mg/Kg		79	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

Lab Sample ID: 890-7244-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93515 — **Prep Batch: 93511**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.100	0.09460		mg/Kg		95	70 - 130	1	35
Toluene	<0.00201	U	0.100	0.09062		mg/Kg		91	70 - 130	1	35
Ethylbenzene	<0.00201	U	0.100	0.08111		mg/Kg		81	70 - 130	2	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1641		mg/Kg		82	70 - 130	2	35
o-Xylene	<0.00201	U	0.100	0.08024		mg/Kg		80	70 - 130	2	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*

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

Lab Sample ID: MB 880-93520/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93537 — **Prep Batch: 93520**

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		10/17/24 09:02	10/17/24 09:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		10/17/24 09:02	10/17/24 09:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		10/17/24 09:02	10/17/24 09:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*10/17/24 09:02*	*10/17/24 09:14*	*1*
o-Terphenyl	*101*		*70 - 130*	*10/17/24 09:02*	*10/17/24 09:14*	*1*

Lab Sample ID: LCS 880-93520/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 93537 — **Prep Batch: 93520**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	989.5		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1014		mg/Kg		101	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: NT Global
Project/Site: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

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

Lab Sample ID: LCS 880-93520/2-A
Matrix: Solid
Analysis Batch: 93537

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 93520

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	123		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-93520/3-A
Matrix: Solid
Analysis Batch: 93537

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 93520

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	994.5		mg/Kg		99	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	1037		mg/Kg		104	70 - 130	2	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	117		70 - 130

Lab Sample ID: 880-49900-A-1-E MS
Matrix: Solid
Analysis Batch: 93537

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 93520

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	718.9		mg/Kg		72	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	684.5	F1	mg/Kg		69	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: 880-49900-A-1-F MSD
Matrix: Solid
Analysis Batch: 93537

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 93520

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	719.6		mg/Kg		72	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	997	674.4	F1	mg/Kg		68	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	76		70 - 130

QC Sample Results

Client: NT Global
Project/Site: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-93553/1-A
Matrix: Solid
Analysis Batch: 93566

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			10/17/24 19:25	1

Lab Sample ID: LCS 880-93553/2-A
Matrix: Solid
Analysis Batch: 93566

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	225.1		mg/Kg		90	90 - 110		

Lab Sample ID: LCSD 880-93553/3-A
Matrix: Solid
Analysis Batch: 93566

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	226.1		mg/Kg		90	90 - 110	0	20

Lab Sample ID: 880-49906-A-2-B MS
Matrix: Solid
Analysis Batch: 93566

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	327	F1	251	541.0	F1	mg/Kg		86	90 - 110		

Lab Sample ID: 880-49906-A-2-C MSD
Matrix: Solid
Analysis Batch: 93566

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	327	F1	251	549.4	F1	mg/Kg		89	90 - 110	2	20

QC Association Summary

Client: NT Global
Project/Site: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

GC VOA

Prep Batch: 93511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7255-1	CS - 1	Total/NA	Solid	5035	
890-7255-2	SW - 1	Total/NA	Solid	5035	
MB 880-93511/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-93511/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-93511/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-7244-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-7244-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 93515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7255-1	CS - 1	Total/NA	Solid	8021B	93511
890-7255-2	SW - 1	Total/NA	Solid	8021B	93511
MB 880-93511/5-A	Method Blank	Total/NA	Solid	8021B	93511
LCS 880-93511/1-A	Lab Control Sample	Total/NA	Solid	8021B	93511
LCSD 880-93511/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	93511
890-7244-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	93511
890-7244-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	93511

Analysis Batch: 93649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7255-1	CS - 1	Total/NA	Solid	Total BTEX	
890-7255-2	SW - 1	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 93520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7255-1	CS - 1	Total/NA	Solid	8015NM Prep	
890-7255-2	SW - 1	Total/NA	Solid	8015NM Prep	
MB 880-93520/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-93520/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-93520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-49900-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-49900-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 93537

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7255-1	CS - 1	Total/NA	Solid	8015B NM	93520
890-7255-2	SW - 1	Total/NA	Solid	8015B NM	93520
MB 880-93520/1-A	Method Blank	Total/NA	Solid	8015B NM	93520
LCS 880-93520/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	93520
LCSD 880-93520/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	93520
880-49900-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	93520
880-49900-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	93520

Analysis Batch: 93658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7255-1	CS - 1	Total/NA	Solid	8015 NM	
890-7255-2	SW - 1	Total/NA	Solid	8015 NM	

QC Association Summary

Client: NT Global
Project/Site: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

HPLC/IC

Leach Batch: 93553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7255-1	CS - 1	Soluble	Solid	DI Leach	
890-7255-2	SW - 1	Soluble	Solid	DI Leach	
MB 880-93553/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-93553/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-93553/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-49906-A-2-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-49906-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 93566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-7255-1	CS - 1	Soluble	Solid	300.0	93553
890-7255-2	SW - 1	Soluble	Solid	300.0	93553
MB 880-93553/1-A	Method Blank	Soluble	Solid	300.0	93553
LCS 880-93553/2-A	Lab Control Sample	Soluble	Solid	300.0	93553
LCSD 880-93553/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	93553
880-49906-A-2-B MS	Matrix Spike	Soluble	Solid	300.0	93553
880-49906-A-2-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	93553

Lab Chronicle

Client: NT Global
Project/Site: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

Client Sample ID: CS - 1
Date Collected: 10/16/24 09:00
Date Received: 10/16/24 15:50

Lab Sample ID: 890-7255-1
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			4.95 g	5 mL	93511	10/17/24 08:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93515	10/17/24 19:15	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93649	10/17/24 19:15	SM	EET MID
Total/NA	Analysis	8015 NM		1			93658	10/17/24 14:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	93520	10/17/24 09:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93537	10/17/24 14:15	TKC	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	93553	10/17/24 13:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93566	10/17/24 21:43	CH	EET MID

Client Sample ID: SW - 1
Date Collected: 10/16/24 09:05
Date Received: 10/16/24 15:50

Lab Sample ID: 890-7255-2
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			5.02 g	5 mL	93511	10/17/24 08:13	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	93515	10/17/24 19:35	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			93649	10/17/24 19:35	SM	EET MID
Total/NA	Analysis	8015 NM		1			93658	10/17/24 14:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.07 g	10 mL	93520	10/17/24 09:02	EL	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	93537	10/17/24 14:30	TKC	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	93553	10/17/24 13:06	SA	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	93566	10/17/24 21:49	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: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400	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: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
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: HAYHURST NM SECTION 12 CTB

Job ID: 890-7255-1
SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-7255-1	CS - 1	Solid	10/16/24 09:00	10/16/24 15:50
890-7255-2	SW - 1	Solid	10/16/24 09:05	10/16/24 15:50

Chain of Custody

NTG ENVIRONMENTAL

Work Order No: _____

Page 1 of 1

Project Manager:	Becky Haskell	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	701 Tradewinds Blvd.	Address:	
City, State ZIP:	Midland TX, 79701	City, State ZIP:	
Phone:	432-766-1918	Email:	

Work Order Comments

Program: UST/PS ☐ PR ☐ Brownfields ☐ RC ☐ Superfund ☐

State of Project:

Reporting: Level ☐ Level II ☐ PST/USTP ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Hayhurst NM Section 12 CTB	Turn Around	
Project Number:	248816	☑ Routine ☐ Rush	
Project Location	Lea County, New Mexico	Due Date:	
Sampler's Name:	Tyler Kimball	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Received Intact:	Yes No	Thermometer ID:	TNM007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	0.4
Total Containers:	2	Corrected Temperature:	0.2

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_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

890-7255 Chain of Custody

Sample Identification	FT (bgs)	Date	Time	Soil	Water	Grab/ Comp	# of Cont	Pres. Code	BTEX 8021B	TPH 8015M (GRO + DRO + MRO)	Chloride 4500	Sample Comments
CS-1		10/16/2024	9:00	X		Comp	1		x	x	x	
SW-1		10/16/2024	9:05	X		Comp	1		x	x	x	

Additional Comments: **NMOCD ID:**

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $85.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Tyler Kimball		10/16 1550	2		
3			4		
5			6		

Revised Date 05012020 Rev. 2020.1

Login Sample Receipt Checklist

Client: NT Global

Job Number: 890-7255-1
SDG Number: Lea County NM

Login Number: 7255
List Number: 1
Creator: Bruns, Shannon

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: 890-7255-1
SDG Number: Lea County NM

Login Number: 7255
List Number: 2
Creator: Laing, Edmundo

List Source: Eurofins Midland
List Creation: 10/17/24 08:16 AM

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

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403914
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2415939361**
Incident Name	**NAPP2415939361 HAYHURST NM SECTION 12 CTB @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Facility	**[fAPP2415938681] Hayhurst NM Section 12 CTB**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Hayhurst NM Section 12 CTB
Date Release Discovered	06/01/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion | Injection Header | Crude Oil | Released: 2 BBL | Recovered: 0 BBL | Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion | Injection Header | Produced Water | Released: 5 BBL | Recovered: 0 BBL | Lost: 5 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	*Not answered.*
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	*Not answered.*

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403914
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/16/2024

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403914
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Zero feet, overlying, or within area
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1180
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	813
GRO+DRO (EPA SW-846 Method 8015M)	568
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
On what estimated date will the remediation commence	10/04/2024
On what date will (or did) the final sampling or liner inspection occur	10/16/2024
On what date will (or was) the remediation complete(d)	11/09/2024
What is the estimated surface area (in square feet) that will be reclaimed	756
What is the estimated volume (in cubic yards) that will be reclaimed	32
What is the estimated surface area (in square feet) that will be remediated	756
What is the estimated volume (in cubic yards) that will be remediated	32
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403914
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	R360 ARTESIA LLC LANDFARM [fEEM0112340644]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	No
OR is the **off-site** disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/16/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403914
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403914
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**391630**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**10/16/2024**
What was the (estimated) number of samples that were to be gathered	**6**
What was the sampling surface area in square feet	**756**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	187
What was the total volume (cubic yards) remediated	17
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	N/A

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Amy Barnhill Title: Waste & Water Specialist Email: ABarnhill@chevron.com Date: 11/16/2024

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

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403914
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 403914
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	11/26/2024
scott.rodgers	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	11/26/2024