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February 28, 2025

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

**Re: Incident Deferral Report
Caza Operating, LLC
Mad River 13 State Com #004H
Unit I, Section 13, Township 24S, Range 27E
Site Coordinates: 32.215719, -104.135331
Eddy County, New Mexico
Incident ID: nAB1800356604**

Introduction

NTG Environmental, LLC (NTGE), on behalf of Caza Operating, LLC (Caza), submits this Incident Deferral Report to the New Mexico Oil Conservation Division (NMOCD). This report provides documentation of initial soil delineation, sampling analysis, and remediation activities conducted to date in the affected areas at the Mad River 13 State Com #004H (Site). The Site is in Unit Letter I, Section 13, of Township 24 South and Range 27 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.215719° N Latitude and -104.135331° 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 initial C-141 submitted by Caza and obtained by the New Mexico Oil Conservation District (NMOCD), the release was discovered on January 1, 2018. The release was the result of a fire in the treating tower, resulting in the release of two (2) barrels (bbls) of crude oil, of which zero (0) bbls were recovered. Upon discovery the well was shut-in, and the area was secure. The release area is shown in Figure 3.

Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source (C-03145) within a ½-mile radius of the Site. C-03145 was drilled in 2005; water was encountered at 40 ft bgs. No other receptors (playas, wetlands, waterways,

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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 potential area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) is 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	40

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)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

Site Assessment Activities

On January 17, 2025, NTGE conducted site assessment activities to determine the extent of the release impacts. A total of three (3) vertical sample points (i.e., D-1 – D-3) were installed at depths ranging from zero to four and a half (0-4.5) foot below ground surface (ft bgs).

Site assessment activities were conducted to fully characterize and delineate the extent of impacts resulting from the release. Soil samples were collected from the Site using a geotechnical hand auger and submitted to an accredited laboratory for chemical analysis. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) (by EPA Method 8021B), total petroleum hydrocarbon (TPH) (by EPA method SM4500CL-B), and chloride (by EPA method 300). The combined analytical results of the Site assessment activities are provided in Table 1. Soil sample locations are shown in Figure 3. Laboratory reports containing analytical methods and chain-of-custody documents are attached.

Analytical results from the initial assessment activities identified elevated chloride concentrations at the following sample points: D-1 from surface to half a (0-0.5) ft bgs and D-2 from surface to one and a half (0-1.5) ft bgs. Analytical results of all the remaining samples were below the NMOCD regulatory limits for all analytes.

Excavation, Waste Management and Confirmation Sampling

Based on the Site assessment activities, Caza proceeded with the remedial action activities at the Site to include the excavation and disposal of impacted soils above NMOCD regulatory limits. The Site was excavated to depths ranging from one to two (1-2) ft bgs. Upon completion of the excavation, confirmation samples were collected from the excavation's sidewalls and base. The confirmation samples were collected in accordance with the one sample per 200 square feet (sq ft) guideline established in the NMOCD regulatory criteria.

On February 20, 2025, a total of thirty-four (34) confirmation samples were collected. Twenty-three (23) confirmation samples (i.e., CS-1 – CS-23) were collected from the excavation base as well as eleven (11) confirmation samples (i.e., SW-1 – SW-11) were collected from the excavation sidewalls. Analytical results indicated confirmation samples SW-4, SW-6, and SW-11 exhibited chloride concentrations above NMOCD Table 1 Closure Criteria. Analytical results of all the remaining confirmation samples were below the NMOCD regulatory limits for all analytes.

The excavation extent, excavation depths, and confirmation sample locations are shown on Figure 4. A total of approximately 300 cubic yards (yd³) of impacted soil were excavated and transported to a permitted disposal facility. All soil samples were analyzed for TPH (EPA method 8015 modified), BTEX (EPA Method 8021B), and chloride (EPA method 300.0/SM 4500Cl⁻B). Copies of laboratory analysis and chain-of-custody documentation are attached. The analytical results are summarized in Table 2.

Incident Deferral Request

Based on the assessment and subsequent remedial action activities, the Site is compliant with NMOCD's regulatory requirements, except for the areas of SW-4, SW-6 and SW-11. Further remediation in the area was not possible without causing major facility deconstruction. Caza formally requests a deferral for the Site (nAB1800356604). If you have any questions regarding this report or need additional information, please contact us at (832) 374-0004.

Sincerely,
NTG Environmental



Kellan Smith
Project Manager

Attachments:

- Tables
- Figures
- Site Characterization Information
- Photographic Log
- Laboratory Reports

Tables

Table 1
Summary of Soil Analytical Data - Deferral Samples
Mad River 13 State Com #004H
Caza Operating, LLC
Eddy County, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6- C-10)	DRO (C10- C28)	GRO + DRO	MRO (C28- C35)	Total GRO/DRO/MRO	
			(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 >100 feet Depth to Groundwater 19.15.29 NMAC										
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg
Deferral Samples													
D-1	1/17/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	30.5	30.5	<10.0	30.5	864
	1/17/2025	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	1/17/2025	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
	1/17/2025	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	1/17/2025	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
D-2	1/17/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,120
	1/17/2025	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832
	1/17/2025	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
	1/17/2025	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
	1/17/2025	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
D-3	1/17/2025	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
	1/17/2025	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
	1/17/2025	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	1/17/2025	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	1/17/2025	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

Notes:

- Values reported in mg/kg
- < = Value Less Than Reporting Limit (RL)
- Bold indicates Analyte Detected
- 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).

9. --- Not Analyzed

 Sample Point Excavated

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Mad River 13 State Com #004H
Caza Operating, LLC
Eddy County, New Mexico

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)	
			Table I Closure Criteria for Soil >100 feet Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg			
Base Confirmation Samples													
CS-1	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS-2	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
CS-3	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
CS-4	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS-5	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
CS-6	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-7	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
CS-8	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
CS-9	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
CS-10	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS-11	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-12	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.7	12.7	<10.0	12.7	96.0
CS-13	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
CS-14	2/20/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
CS-15	2/20/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
CS-16	2/20/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS-17	2/20/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-18	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
CS-19	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
CS-20	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
CS-21	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-22	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
CS-23	2/20/2025	2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Mad River 13 State Com #004H
Caza Operating, LLC
Eddy County, New Mexico

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 >100 feet Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg	600 mg/kg			
Sidewall Confirmation Samples													
SW-1	2/20/2025	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-2	2/20/2025	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-3	2/20/2025	1-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-4	2/20/2025	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,600
SW-5	2/20/2025	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-6	2/20/2025	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,030
SW-7	2/20/2025	1-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-8	2/20/2025	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-9	2/20/2025	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW-10	2/20/2025	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-11	2/20/2025	0-2'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	848

Notes:

- Values reported in mg/kg
- < = Value Less Than Reporting Limit (RL)
- Bold indicates Analyte Detected
- BTEX analyses by EPA Method SW 8021B
- SP-1 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

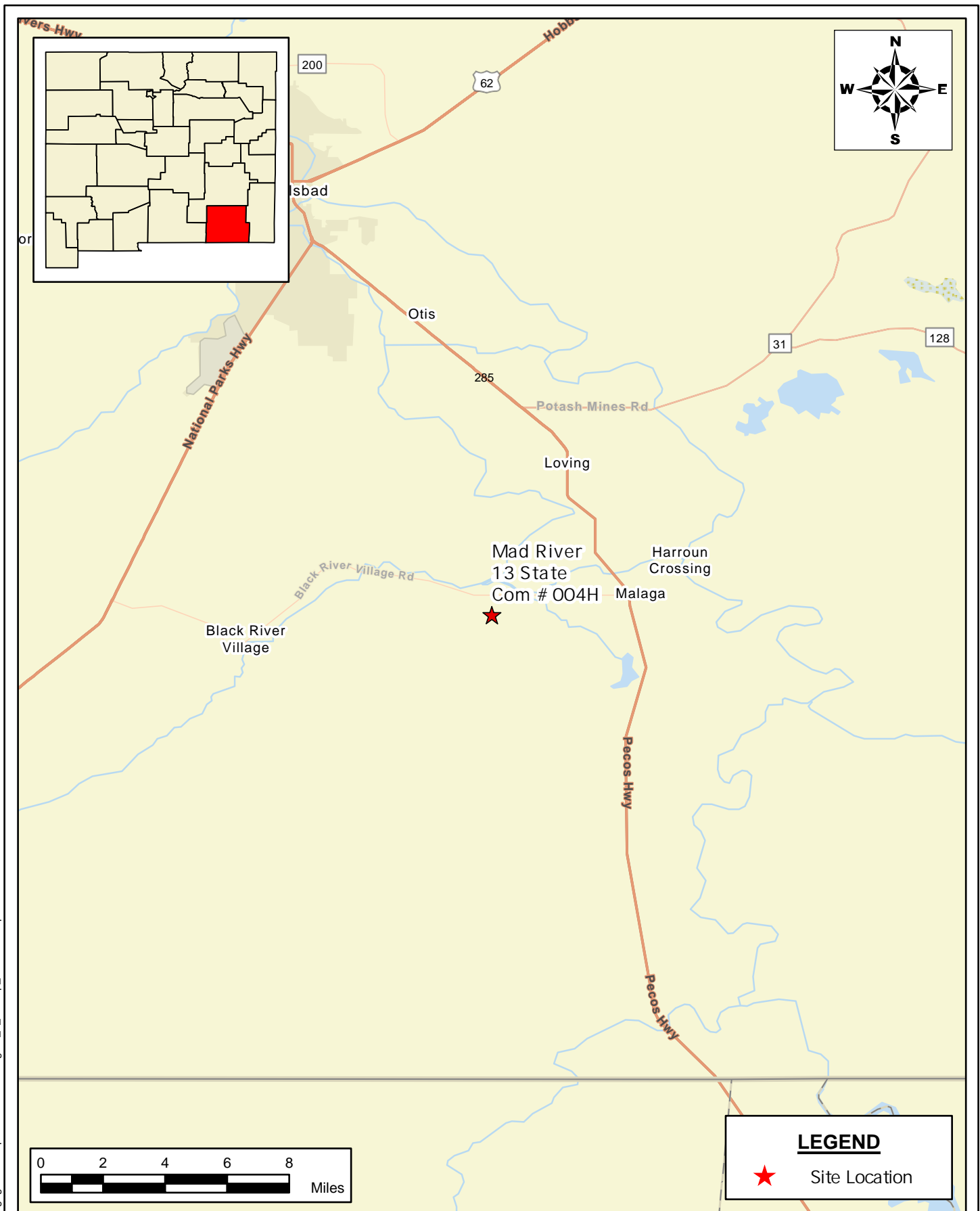
6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

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

Figures



Document Path: C:\Users\ntg\gis\Desktop\Geodatabase\Figure_1_SLM\Map_02262025.aprx

**SITE LOCATION MAP
 DEFERRAL REQUEST REPORT
 CAZA OPERATING, LLC
 MAD RIVER 13 STATE COM #004H
 EDDY COUNTY, NEW MEXICO
 32.215719, -104.135331**

SCALE: As Shown Date: 2/26/2025 PROJECT #: 249003

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:

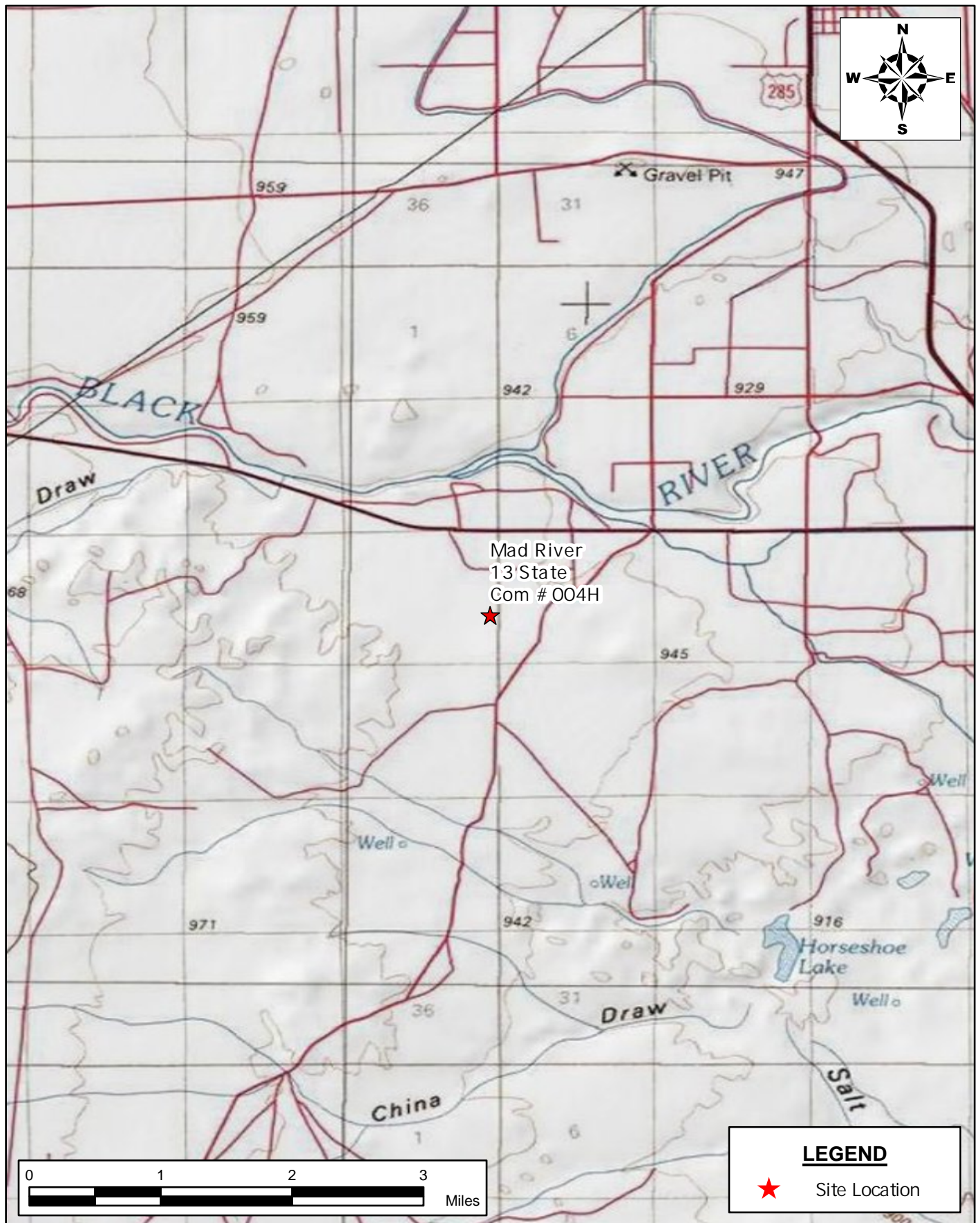
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2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1



**TOPOGRAPHIC MAP
DEFERRAL REQUEST REPORT
CAZA OPERATING, LLC
MAD RIVER 13 STATE COM #004H
EDDY COUNTY, NEW MEXICO
32.215719, -104.135331**

SCALE: As Shown

Date: 2/26/2025

PROJECT #: 249003



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
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NOTES:

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

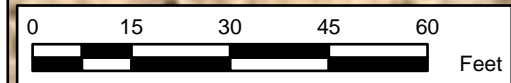
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FIGURE 2

SHEET NUMBER:

1 of 1

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LEGEND

- Deferral Delineation Sample
- Area of Concern

**DELINEATION SAMPLE MAP
DEFERRAL REQUEST REPORT
CAZA OPERATING, LLC
MAD RIVER 13 STATE COM #004H
EDDY COUNTY, NEW MEXICO
32.215719,-104.135331**

SCALE: As Shown Date: 2/26/2025 PROJECT #: 249003



New Tech Global Environmental, LLC
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NOTES:

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

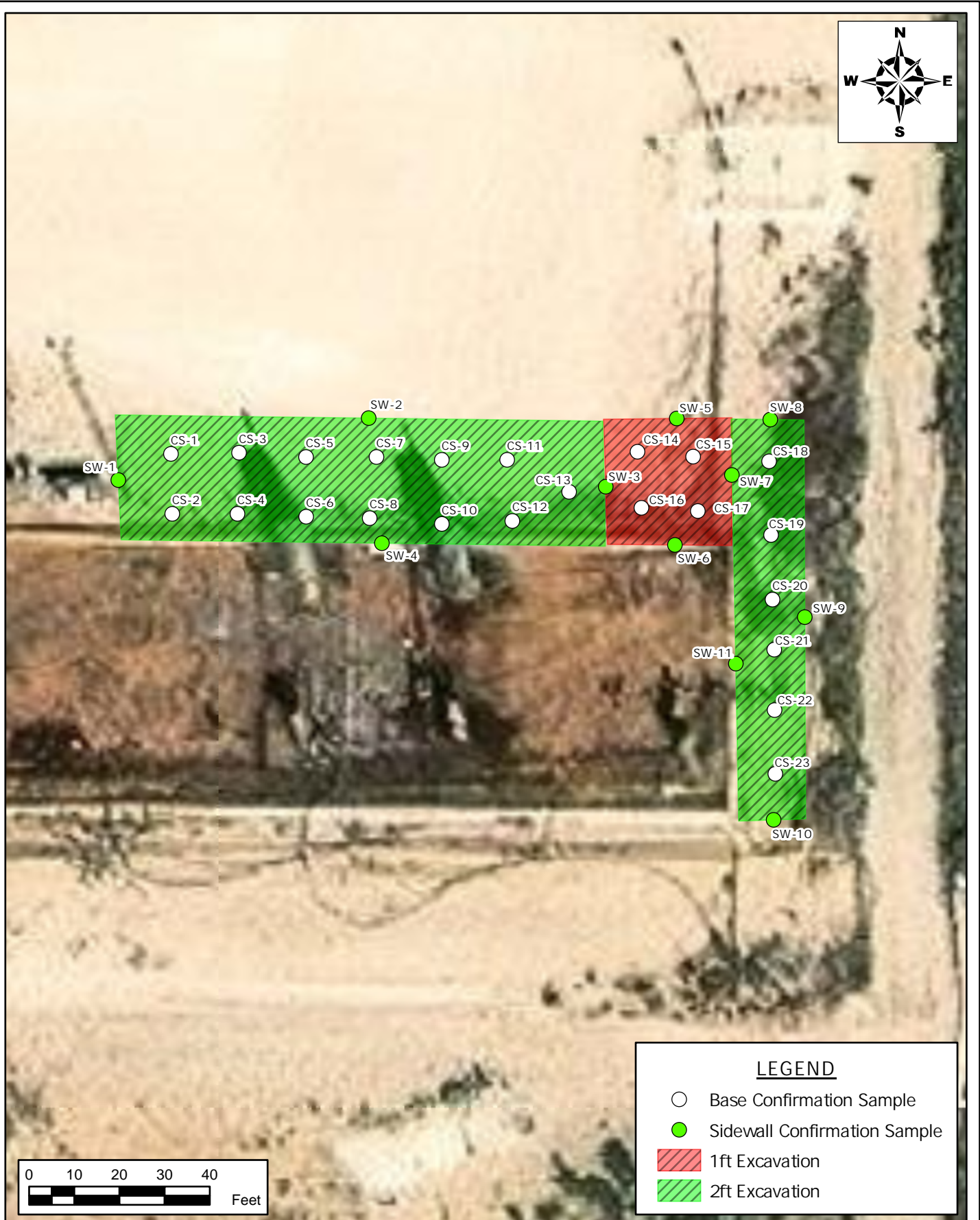
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FIGURE 3

SHEET NUMBER:

1 of 1

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**CONFIRMATION SAMPLE MAP
DEFERRAL REQUEST REPORT
CAZA OPERATING, LLC**
MAD RIVER 13 STATE COM #004H
EDDY COUNTY, NEW MEXICO
32.215719, -104.135331

SCALE: As Shown

Date: 2/26/2025

PROJECT #: 249003



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
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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


Site Characterization Information




2/26/2025, 3:11:41 PM


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Site Location
- 


OSE Water PODs
- 

Karst Occurrence Potential

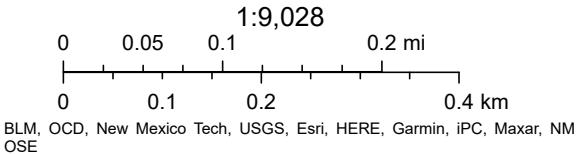


Medium
- 

OSW Water Bodies



OSE Streams



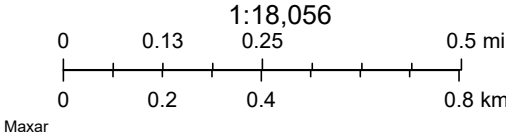
OSE POD Location Map



2/26/2025, 3:06:45 PM

GIS WATERS PODs

- Pending
- Active



Point of Diversion Summary

quarters are 1=NW 2=NE 3=SW 4=SE
quarters are smallest to largest

NAD83 UTM in meters

Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 03145	SW	NW	SE	13	24S	27E	580749.0	3564579.0 *	

* UTM location was derived from PLSS - see Help

Driller License:	1348	Driller Company:	TAYLOR WATER WELL SERVICE
Driller Name:			
Drill Start Date:	2005-03-03	Drill Finish Date:	2005-03-04
Log File Date:	2005-03-21	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	6.63	Depth Well:	103
		Depth Water:	40

National Flood Hazard Layer FIRMette



104°8'26"W 32°13'12"N



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 Cross Sections with 1% Annual Chance Water Surface Elevation
		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
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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 7/31/2024 at 4:05 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.

Released to Imaging: 5/7/2025 3:37:59 PM

1:6,000

104°7'48"W 32°12'41"N

Basemap Imagery Source: USGS National Map 2023



U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetlands



September 4, 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.

Photographic Log

PHOTOGRAPHIC LOG
Caza Operating, LLC
MAD RIVER 13 STATE COM #004H

Photograph No. 1

Facility: Mad River 13 State Com #004H

County: Eddy County, New Mexico

Description:
Confirmation Sampling



Photograph No. 2

Facility: Mad River 13 State Com #004H

County: Eddy County, New Mexico

Description:
Confirmation Sampling



Photograph No. 3

Facility: Mad River 13 State Com #004H

County: Eddy County, New Mexico

Description:
Confirmation Sampling



PHOTOGRAPHIC LOG
Caza Operating, LLC
MAD RIVER 13 STATE COM #004H

Photograph No. 4

Facility: Mad River 13 State Com #004H

County: Eddy County, New Mexico

Description:
Confirmation Sampling



Photograph No. 5

Facility: Mad River 13 State Com #004H

County: Eddy County, New Mexico

Description:
Confirmation Sampling



Laboratory Reports and Chain-of-Custody



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

January 21, 2025

KELLAN SMITH

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: MAD RIVER 13 STATE COM #004H

Enclosed are the results of analyses for samples received by the laboratory on 01/17/25 13:51.

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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 1 0-0.5' (H250291-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41	
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910	
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213	
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677	
Total BTEX	<0.300	0.300	01/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	30.5	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 1 1-1.5' (H250291-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 1 2-2.5' (H250291-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 1 3-3.5' (H250291-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 1 4-4.5' (H250291-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEx	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 2 0-0.5' (H250291-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5120	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 2 1-1.5' (H250291-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 2 2-2.5' (H250291-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 2 3-3.5' (H250291-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.7 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 2 4-4.5' (H250291-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/20/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 3 0-0.5' (H250291-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 3 1-1.5' (H250291-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEx	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 3 2-2.5' (H250291-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 3 3-3.5' (H250291-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	2.06	103	2.00	2.41		
Toluene*	<0.050	0.050	01/20/2025	ND	2.21	111	2.00	0.910		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	2.29	114	2.00	0.213		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	6.95	116	6.00	0.677		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	01/17/2025	Sampling Date:	01/17/2025
Reported:	01/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Alyssa Parras
Project Location:	EDDY CO., NM		

Sample ID: D - 3 4-4.5' (H250291-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2025	ND	1.69	84.3	2.00	1.67		
Toluene*	<0.050	0.050	01/20/2025	ND	1.85	92.5	2.00	0.830		
Ethylbenzene*	<0.050	0.050	01/20/2025	ND	1.88	94.0	2.00	1.28		
Total Xylenes*	<0.150	0.150	01/20/2025	ND	5.67	94.5	6.00	0.900		
Total BTEX	<0.300	0.300	01/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	01/20/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/18/2025	ND	180	90.1	200	3.76	
DRO >C10-C28*	<10.0	10.0	01/18/2025	ND	180	90.0	200	4.90	
EXT DRO >C28-C36	<10.0	10.0	01/18/2025	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: H250291

Page 1 of 2

Page 18 of 19

Project Manager:	Kellan Smith	Bill to: (if different)	
Company Name:	NTG Environmental	Company Name:	
Address:	13212 N MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(580) 682-1889	Email:	ksmith@ntglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level I <input type="checkbox"/> Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Mad River 13 State Com #004H	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes			
Project Number:	249003	<input type="checkbox"/> Routine	<input checked="" type="checkbox"/> Rush														None: NO	DI Water: H ₂ O		
Project Location:	Eddy Co. NM	Due Date:	48 hr														Cool: Cool	MeOH: Me		
Sampler's Name:	Grant Gardner	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO ₃ : HN		
PO #:		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												H ₃ PO ₄ : HP	H ₂ SO ₄ : H ₂	
SAMPLE RECEIPT		Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	±14D													NaHSO ₄ : NABIS		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	0.0.00															Na ₂ S ₂ O ₃ : NaSO ₃		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	-48.2															Zn Acetate+NaOH: Zn		
Total Containers:	15	Corrected Temperature:	-5.42															NaOH+Ascorbic Acid: SAPC		
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont													Sample Comments
D-1	0-0.5'	1/17/2025		X		Grab	1	X	X	X										
D-1	1-1.5'	1/17/2025		X		Grab	1	X	X	X										
D-1	2-2.5'	1/17/2025		X		Grab	1	X	X	X										
D-1	3-3.5'	1/17/2025		X		Grab	1	X	X	X										
D-1	4-4.5'	1/17/2025		X		Grab	1	X	X	X										
D-2	0-0.5'	1/17/2025		X		Grab	1	X	X	X										
D-2	1-1.5'	1/17/2025		X		Grab	1	X	X	X										
D-2	2-2.5'	1/17/2025		X		Grab	1	X	X	X										
D-2	3-3.5'	1/17/2025		X		Grab	1	X	X	X										
D-2	4-4.5'	1/17/2025		X		Grab	1	X	X	X										

Additional Comments:

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
1. Grant Gardner	<i>[Signature]</i>	1/17/25 11:00am	<i>[Signature]</i>	<i>[Signature]</i>	1/17/25 1:37
3					
5					

Revised Date 05/01/2020 Rev. 2020.1

Work Order No: 1-850891

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> upfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

[illegible]



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

February 21, 2025

KELLAN SMITH

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: MAD RIVER 13 STATE COM #004H

Enclosed are the results of analyses for samples received by the laboratory on 02/20/25 13:40.

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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 1 (H251020-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81	
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65	
Total BTX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 2 (H251020-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: MAD RIVER 13 STATE COM #004H
 Project Number: 249003
 Project Location: CAZA - EDDY CO., NM

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 3 (H251020-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 4 (H251020-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 5 (H251020-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: MAD RIVER 13 STATE COM #004H
 Project Number: 249003
 Project Location: CAZA - EDDY CO., NM

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 6 (H251020-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 7 (H251020-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	227	113	200	1.98	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	233	116	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 8 (H251020-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 76.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 9 (H251020-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: MAD RIVER 13 STATE COM #004H
 Project Number: 249003
 Project Location: CAZA - EDDY CO., NM

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 10 (H251020-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 11 (H251020-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 63.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: MAD RIVER 13 STATE COM #004H
 Project Number: 249003
 Project Location: CAZA - EDDY CO., NM

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 12 (H251020-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	12.7	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 66.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 13 (H251020-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.13	107	2.00	4.81		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	2.09		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.22	111	2.00	0.985		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.85	114	6.00	1.65		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 14 (H251020-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4		
Total BTX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 68.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 15 (H251020-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/21/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 66.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: MAD RIVER 13 STATE COM #004H
 Project Number: 249003
 Project Location: CAZA - EDDY CO., NM

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 16 (H251020-16)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42	
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4	
Total BTX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/21/2025	ND	480	120	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 75.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: MAD RIVER 13 STATE COM #004H
 Project Number: 249003
 Project Location: CAZA - EDDY CO., NM

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 17 (H251020-17)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42	
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4	
Total BTEx	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/21/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 18 (H251020-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42	
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4	
Total BTEx	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/21/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 70.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 19 (H251020-19)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42	
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4	
Total BTEx	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/21/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 69.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 20 (H251020-20)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4		
Total BTX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/21/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 21 (H251020-21)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42	
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4	
Total BTEX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/21/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 60.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: CS - 22 (H251020-22)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42	
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4	
Total BTEx	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	02/21/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 69.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: MAD RIVER 13 STATE COM #004H
 Project Number: 249003
 Project Location: CAZA - EDDY CO., NM

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 23 (H251020-23)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42	
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4	
Total BTX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 76.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: SW - 1 (H251020-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/21/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: MAD RIVER 13 STATE COM #004H
 Project Number: 249003
 Project Location: CAZA - EDDY CO., NM

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 2 (H251020-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/21/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: SW - 3 (H251020-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	02/21/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/20/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 70.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: SW - 4 (H251020-27)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5600	16.0	02/21/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	202	101	200	2.46	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	195	97.5	200	3.43	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: SW - 5 (H251020-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	02/21/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	211	106	200	1.43	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	203	102	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: MAD RIVER 13 STATE COM #004H
 Project Number: 249003
 Project Location: CAZA - EDDY CO., NM

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 6 (H251020-29)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42	
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4	
Total BTX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2030	16.0	02/21/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: SW - 7 (H251020-30)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42	
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4	
Total BTEx	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/21/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: SW - 8 (H251020-31)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	02/21/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 71.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 02/20/2025
 Reported: 02/21/2025
 Project Name: MAD RIVER 13 STATE COM #004H
 Project Number: 249003
 Project Location: CAZA - EDDY CO., NM

Sampling Date: 02/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 9 (H251020-32)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4		
Total BTX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/21/2025	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: SW - 10 (H251020-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.04	102	2.00	2.42		
Toluene*	<0.050	0.050	02/20/2025	ND	2.09	104	2.00	7.60		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.21	111	2.00	13.5		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.63	110	6.00	15.4		
Total BTEx	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	02/21/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 62.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 59.1 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 KELLAN SMITH
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received:	02/20/2025	Sampling Date:	02/20/2025
Reported:	02/21/2025	Sampling Type:	Soil
Project Name:	MAD RIVER 13 STATE COM #004H	Sampling Condition:	Cool & Intact
Project Number:	249003	Sample Received By:	Shalyn Rodriguez
Project Location:	CAZA - EDDY CO., NM		

Sample ID: SW - 11 (H251020-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/20/2025	ND	2.07	104	2.00	1.01		
Toluene*	<0.050	0.050	02/20/2025	ND	2.16	108	2.00	0.808		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	2.11	105	2.00	0.942		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	6.20	103	6.00	0.827		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	848	16.0	02/21/2025	ND	480	120	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2025	ND	198	98.8	200	5.95	
DRO >C10-C28*	<10.0	10.0	02/21/2025	ND	193	96.4	200	7.73	
EXT DRO >C28-C36	<10.0	10.0	02/21/2025	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.0 % 49.1-148

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: YTCF		P.O. #:		ANALYSIS REQUEST	
Project Manager: Kellen Smyth		Company:			
Address: 15212 N. MacArthur Blvd		Attn:			
City: Oklaheima City		Address:			
Phone #: 580 682 1889		City:			
Project #: 249003		State:			
Project Name: Mad River 13 State Com #004H		Zip:			
Project Location: Eddy County		Phone #:			
Sample Name: Taper Kumball		Fax #:			
FOR LAB USE ONLY		PRESERV		SAMPLING	
Lab I.D.		DATE		TIME	
Sample I.D.		DATE		TIME	
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		DATE		TIME	
CS-1 CS-2 CS-3 CS-4 CS-5 CS-6 CS-7 CS-8 CS-9 CS-10		2-20-25		9:00 AM	
1 2 3 4 5 6 7 8 9 10					
TPB Chlorides BTEx					
Relinquished By: [Signature] Date: 2-20-25 Time: 1:40		Received By: [Signature] Date: 2-20-25 Time: 1:40		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:	
Relinquished By: [Signature] Date: 2-20-25 Time: 1:40		Received By: [Signature] Date: 2-20-25 Time: 1:40		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C	
Turnaround Time:		Standard Rush 24 Hrs		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C	



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Yates

BILL TO

ANALYSIS REQUEST

Project Manager: Kellen Smith

P.O. #:

Address: 13212 N. MacArthur Blvd

Company:

City: Oklahoma City

Attn:

Phone #: 580 682 1889

Address:

Project #: 249003

City:

Project Name: Mad River 13 State Com #004H

State:

Project Location: Eddy County

Zip:

Sample Name: Tyler Kemel

Phone #:

FOR LAB USE ONLY

Fax #:

Lab I.D.

Sample I.D.

HS1030

(G)RAB OR (C)OMP.

11

CONTAINERS

13

GROUNDWATER

14

WASTEWATER

15

SOIL

16

OIL

17

SLUDGE

18

OTHER :

19

ACID/BASE:

20

ICE / COOL

21

OTHER :

22

DATE

23

TIME

24

TPH

25

Chlorides

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BTEX

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Relinquished By:

Date:

Relinquished By:

Received By:

Relinquished By:

Date:

Relinquished By:

Received By:

Delivered By: (Circle One)

Observed Temp. °C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Form 1000 Rev 06/03/24

Sample Condition

Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com

CHECKED BY: (Initials)

Turnaround Time:

Standard

Rush

Bacteria (only)

Sample Condition

Observed Temp. °C

Corrected Temp. °C

24 HR

24 HR

24 HR

24 HR

24 HR



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: JFCB							P.O. #:							BILL TO							ANALYSIS REQUEST									
Project Manager: Kellen Smyth							Company:																							
Address: 15212 N. MacArthur Blvd																														
City: Oklahoma City							Attn:																							
State: OK							Zip: 73142																							
Phone #: 580 682 1889							Fax #:																							
Project #: 249003							Project Owner: C-29																							
Project Name: Mad River 13 State Con #C04H							City:																							
Project Location: Eddy County							State:																							
Sample Name: Tyler Kemball							Phone #:																							
FOR LAB USE ONLY							Fax #:																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																			
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME														
HS1080								X							2-20-25	9:30	TPH Chlorides BTEx													
21		CS-21																												
22		CS-22																												
23		CS-23																												
24		SW-1																												
25		SW-2																												
26		SW-3																												
27		SW-4																												
28		SW-5																												
29		SW-6																												
30		SW-7																												

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Relinquished By: [Signature]				Date: 2-20-25				Received By: [Signature]				Date: 2-20-25			
Time: 1:44				Time:				Time:				Time:			
Relinquished By:				Date:				Received By:				Date:			
Time:				Time:				Time:				Time:			

Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY:		Turnaround Time:		Standard		Bacteria (only)		Sample Condition	
Sampler - UPS - Bus - Other:		-24.0		Cool Intact		[Signature]				Rush		Cool Intact		Observed Temp. °C	
		Corrected Temp. °C: -2.3		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No						+0.3		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Corrected Temp. °C	
REMARKS:															

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

QUESTIONS

Action 437630

QUESTIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 437630
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1800356604
Incident Name	NAB1800356604 MAD RIVER 13 STATE COM #004H @ 30-015-44042
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	[30-015-44042] MAD RIVER 13 STATE COM #004H

Location of Release Source

Please answer all the questions in this group.

Site Name	MAD RIVER 13 STATE COM #004H
Date Release Discovered	01/03/2018
Surface Owner	Private

Incident Details

Please answer all the questions in this group.

Incident Type	Oil 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: Fire Treating Tower Crude Oil Released: 2 BBL Recovered: 0 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
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.

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QUESTIONS, Page 2

Action 437630

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 437630
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (2) an unauthorized release of a volume that: (a) results in a fire or is the result of a fire.
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	n/a

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: Kelly Arrendondo Title: Production Reporting Manager Email: karredondo@ntglobal.com Date: 02/28/2025
--	---

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 3

Action 437630

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID:
	249099
	Action Number: 437630
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization	
<i>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.</i>	
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 500 and 1000 (ft.)
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	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	5120
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	30.5
GRO+DRO (EPA SW-846 Method 8015M)	30.5
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	02/01/2025
On what date will (or did) the final sampling or liner inspection occur	02/20/2025
On what date will (or was) the remediation complete(d)	02/25/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	4334
What is the estimated volume (in cubic yards) that will be remediated	300
<i>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.</i>	
<i>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.</i>	

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Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 437630

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 437630
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	LEA LAND LANDFILL [fEEM0112342028]
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
<i>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>	
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: Kelly Arrendondo Title: Production Reporting Manager Email: karredondo@ntglobal.com Date: 02/28/2025
<i>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.</i>	

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, Page 5

Action 437630

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 437630
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Tank Battery, Heater Treaters, Separators, Flow Lines, Liner, etc.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	6500
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	480
<i>Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.</i>	
Enter the facility ID (f#) on which this deferral should be granted	Mad River 13 State Nos. 4H-5H Production Facility [fAPP2429029501]
Enter the well API (30-) on which this deferral should be granted	30-015-44042 MAD RIVER 13 STATE COM #004H
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True
<i>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>	
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: Kelly Arrendondo Title: Production Reporting Manager Email: karredondo@ntglobal.com Date: 02/28/2025

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QUESTIONS, Page 6

Action 437630

QUESTIONS (continued)

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 437630
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	433076
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/20/2025
What was the (estimated) number of samples that were to be gathered	28
What was the sampling surface area in square feet	3700

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	No

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Santa Fe, NM 87505

CONDITIONS

Action 437630

CONDITIONS

Operator: CAZA OPERATING, LLC 200 N Loraine St Midland, TX 79701	OGRID: 249099
	Action Number: 437630
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Caza's deferral requests final remediation for (Incident Number: NAB1800356604) until final reclamation of the well pad or major construction, whichever comes first. NTG Environmental and Caza do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the area adjacent to facility infrastructure including sidewall sample locations SW-4, SW-6, and SW-11, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	5/7/2025