



13212 N MacArthur Blvd
Oklahoma City, Oklahoma 73142
Tel. 832.374.0004
ntgenvironmental.com

March 4, 2025

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

**Re: Incident Closure Report
BTA Oil Producers
Gem 8705 JV-P #004
Unit N, Section 02, Township 20S, Range 33E
Site Coordinates: 32.5963364, -103.6361542
Lea County, New Mexico
Incident ID: nTO1414738096**

Introduction

NTG Environmental, LLC (NTGE), on behalf of BTA Oil Producers (BTA), submits this Incident Closure 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 Gem 8705 JV-P #004 (Site). The Site is in Unit Letter N, Section 02, of Township 20 South and Range 33 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.5963364° N Latitude and -103.6361542° 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 May 15, 2014. The release was the result of a flow line leak, resulting in the release of 8 barrels (bbls) of crude oil, of which four (4) 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 sources within a ½-mile radius of the Site. CP-1865- POD2 was drilled in 2021 to a depth of 105 feet below ground surface (ft bgs), no groundwater was encountered. No other

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receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the Site is located within a Low Karst 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)
Low Karst	>105'

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
19.15.29.13 Table 1 Restoration, Reclamation, and Re-Vegetation	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

Site Assessment Activities

On December 26, 2024, NTGE conducted site assessment activities to determine the extent of the release impacts. A total of five (5) vertical sample points (i.e., V-1 through V-5) were installed at depths ranging from zero to four and a half foot (0-4.5) below ground surface (ft bgs). Additionally, six (6) horizontal sample points were installed at depths ranging from zero to half a foot (0-0.5) 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 were 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 8015 modified), and chloride (by EPA method SM4500CL-B). 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 showed the area of V-5 from zero to half (0-0.5) a ft bgs were above the NMOCD

regulatory limits for chlorides. Analytical results of all the remaining samples were below the NMOCD regulatory limits for all analytes

Remedial Activities & Confirmation Sampling

Based on the Site assessment activities, BTA 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 half-a-foot to one (0.5-1) 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 January 30, 2025, a total of twelve (12) confirmation samples were collected. Seven (7) confirmation samples (i.e., CS-1 – CS-7) were collected from the excavation base and four (4) confirmation samples (i.e., SW-1 – SW-4) were collected from the excavation sidewalls. Analytical results of the following confirmation samples were above the NMOCD regulatory limits for chlorides and/or TPH: CS-1, CS-4, CS-5, CS-6, SW-1, SW-3, and SW-4.


On February 19, 2025, after further excavation activities, an additional seven (7) confirmation samples were collected. Five (5) confirmation samples (i.e., CS-1, CS-4, CS-5, CS-6, and CS-8) were collected from the excavations base as well as three (3) confirmation samples (i.e., SW-1A, SW-3A, and SW-4A) were collected from the excavation sidewalls. Analytical results of all the 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 60 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.

Closure Request

Based on the assessment and subsequent remedial action activities, the Site is compliant with NMOCD's regulatory requirements, and no further actions are required at the Site. BTA formally requests closure for the Site (nTO1414738096). 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 - Delineation Samples
Gem 8705 JV-P #004
BTA Oil Producers
Lea 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 (C6-C28)	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	---	---	1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg
Vertical Delineation Samples													
V-1	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
	12/26/24	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
	12/26/24	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	12/26/24	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
	12/26/24	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
V-2	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	12/26/24	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
	12/26/24	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
	12/26/24	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
	12/26/24	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
V-3	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
	12/26/24	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	12/26/24	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	12/26/24	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	60.6	60.6	38.8	99.4	320
	12/26/24	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
V-4	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
	12/26/24	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
	12/26/24	2-2.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.3	16.3	<10.0	16.3	160
	12/26/24	3-3.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	12/26/24	4-4.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
V-5	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	157	157	97.9	254.9	3,080
	12/26/24	1-1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	12/26/24	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
	12/26/24	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
	12/26/24	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
Horizontal Delineation Samples													
H-1	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
H-2	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
H-3	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
H-4	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-5	12/26/24	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
H-6	12/26/24	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

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

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Gem 8705 JV-P #004
BTA Oil Producers
Lea 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 (C6-C28)	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 51-100 feet Depth to Groundwater 19.15.29 NMAC										
10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg			
Base Confirmation Samples													
CS-1	1/30/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	624
	2/19/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-2	1/30/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
CS-3	1/30/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
CS-4	1/30/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800
	2/19/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-5	1/30/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	95.1	95.1	90.5	185.6	80.0
	2/19/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-6	1/30/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	672
	2/19/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
CS-7	1/30/2025	0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
CS-8	2/19/2025	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
Sidewall Confirmation Samples													
SW-1	1/30/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	784
SW-1A	2/19/2025	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-2	1/30/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560.0
SW-3	1/30/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	800.0
SW-3A	2/19/2025	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-4	1/30/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736.0
SW-4A	2/19/2025	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-5	2/19/2025	0-0.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

Notes:

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

- TPH analyses by EPA Method SW 8015 Mod.
- 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.

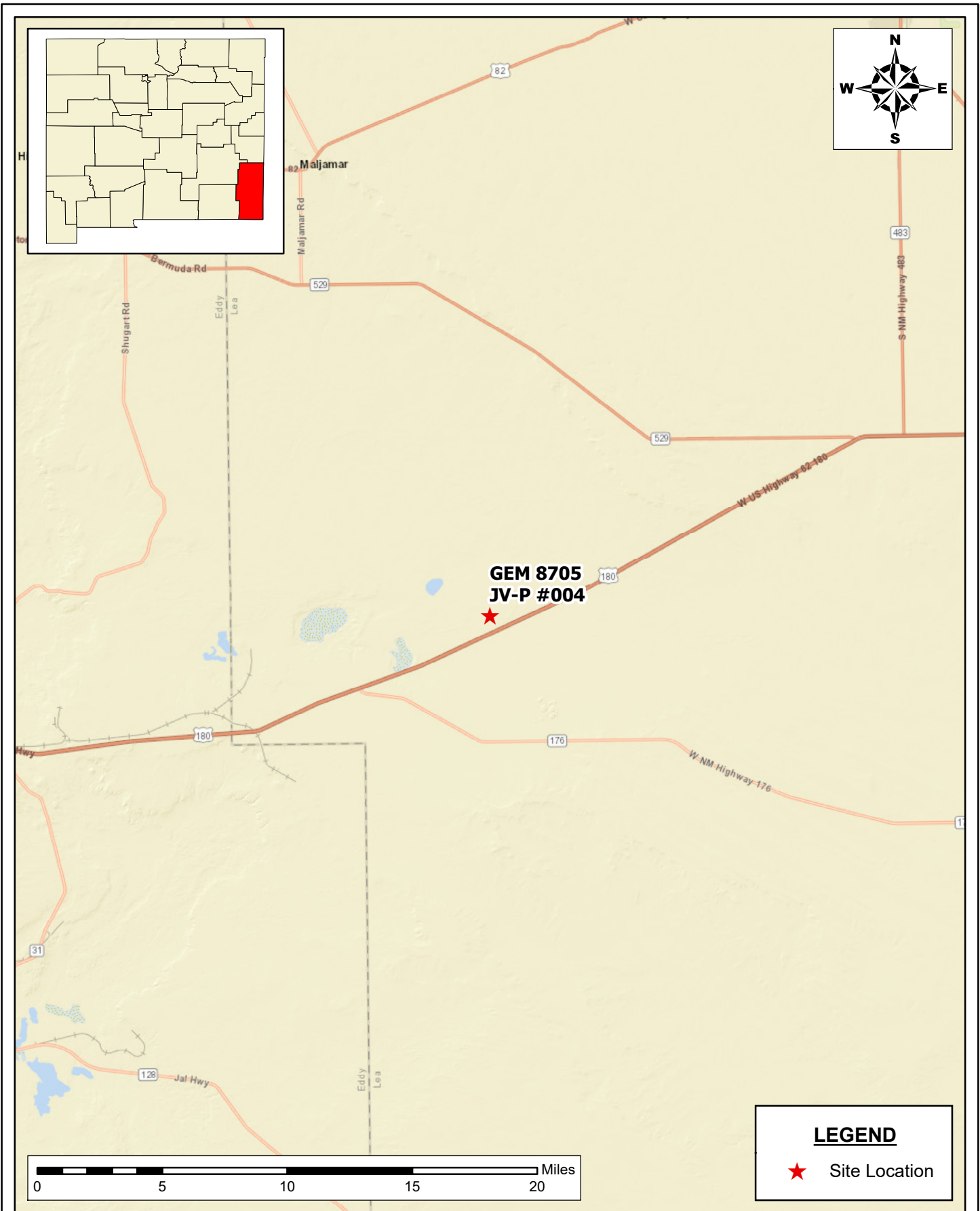
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

- Not Analyzed

SP-1 Sample Point Excavated

Figures

Document Path: C:\Users\ntg\gis\New Tech Global\NTGE - Documents\NTGE - Projects\2024 PROJECTS\BTA\RSC\249318 - GEM 8705 JV-P #004\17 - Figures\GIS\Figure_1_SL_SC_REMED_WORKPLAN.mxd



**SITE LOCATION MAP
REMEDATION CLOSURE REPORT**
BTA OIL PRODUCERS, LLC
GEM 8705 JV-P #004
LEA COUNTY, NEW MEXICO

SCALE: As Shown Date: 2/26/2025 PROJECT #: 249318



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

NOTES:

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

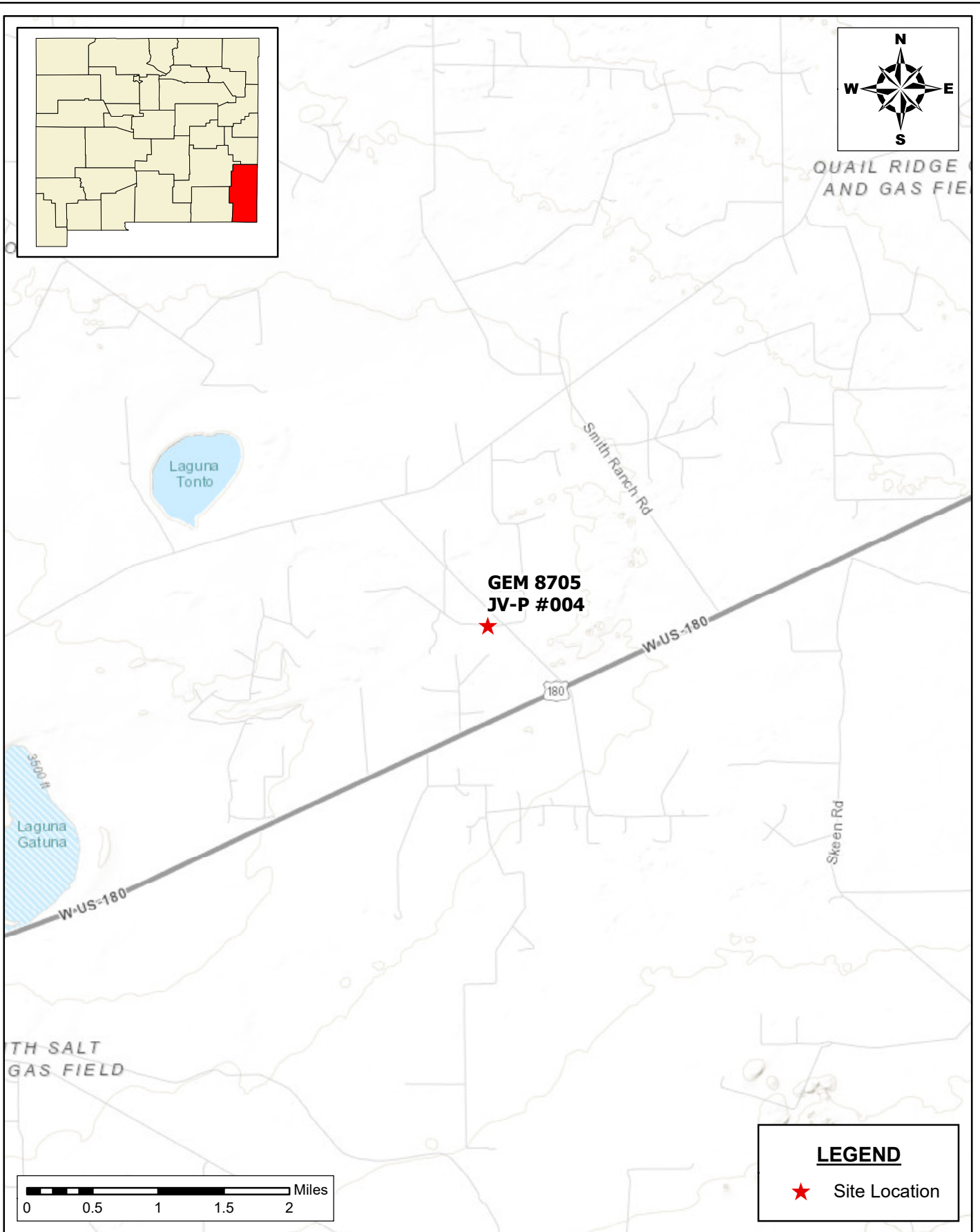
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FIGURE 1

SHEET NUMBER:

1 of 1

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**TOPOGRAPHIC MAP
REMEDIATION CLOSURE REPORT**
BTA OIL PRODUCERS, LLC
GEM 8705 JV-P #004
LEA COUNTY, NEW MEXICO

SCALE: As Shown Date: 2/26/2025 PROJECT #: 249318



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2. Map Projection: NAD 1983

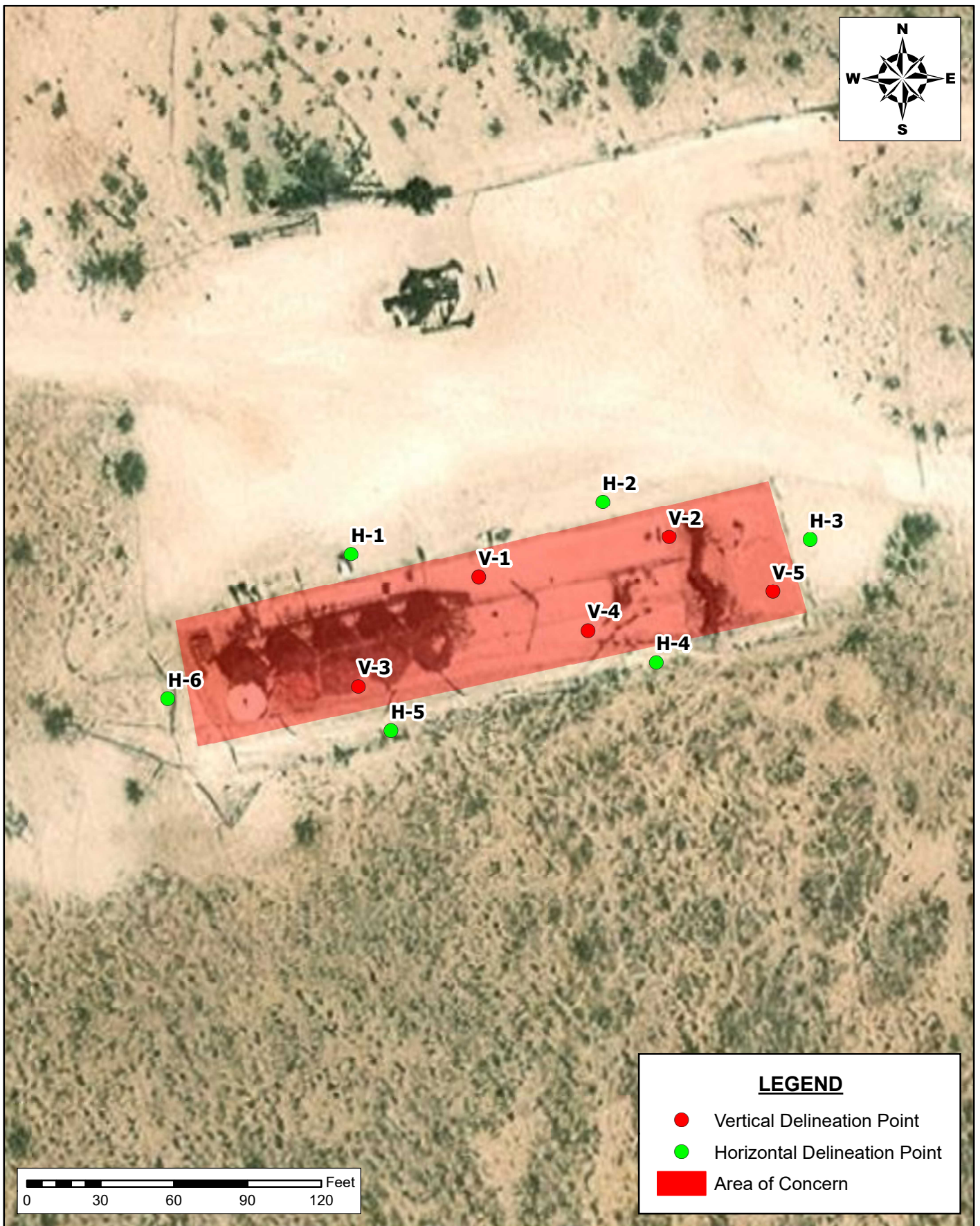
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FIGURE 2

SHEET NUMBER:

1 of 1

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**DELINEATION MAP
REMEDICATION CLOSURE REPORT**
BTA OIL PRODUCERS, LLC
GEM 8705 JV-P #004
LEA COUNTY, NEW MEXICO

SCALE: As Shown Date: 2/26/2025 PROJECT #: 249318



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NOTES:

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

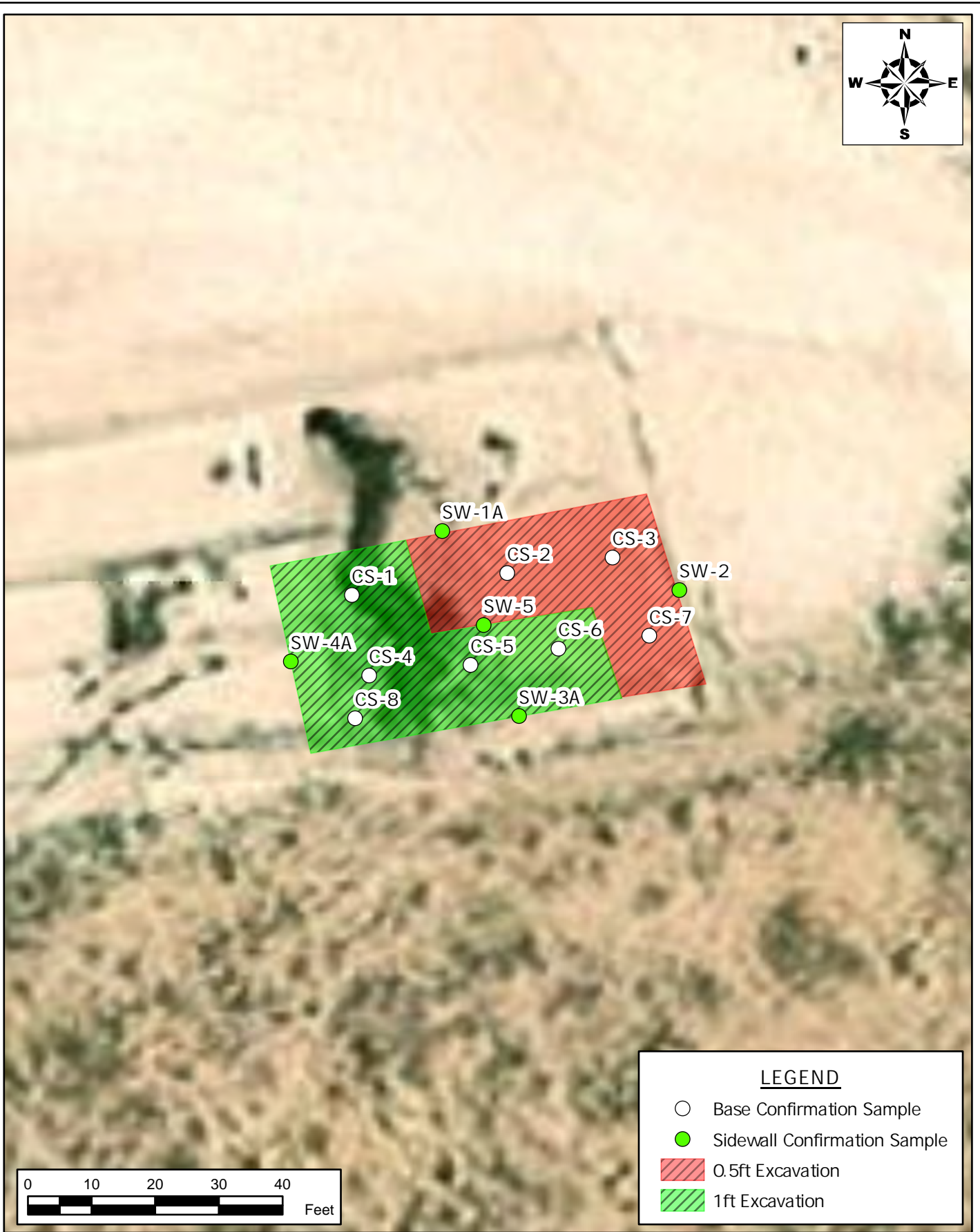
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FIGURE 3

SHEET NUMBER:

1 of 1

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**CONFIRMATION SAMPLE MAP
REMEDiation CLOSURE REPORT
BTA OIL PRODUCERS, LLC
GEM 8705 JV-P #004
LEA COUNTY, NEW MEXICO**

SCALE: As Shown Date: 2/26/2025 PROJECT #: 249318



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F - 281.872.4521
Web: www.ntglobal.com

NOTES:

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

DRAWING NUMBER:

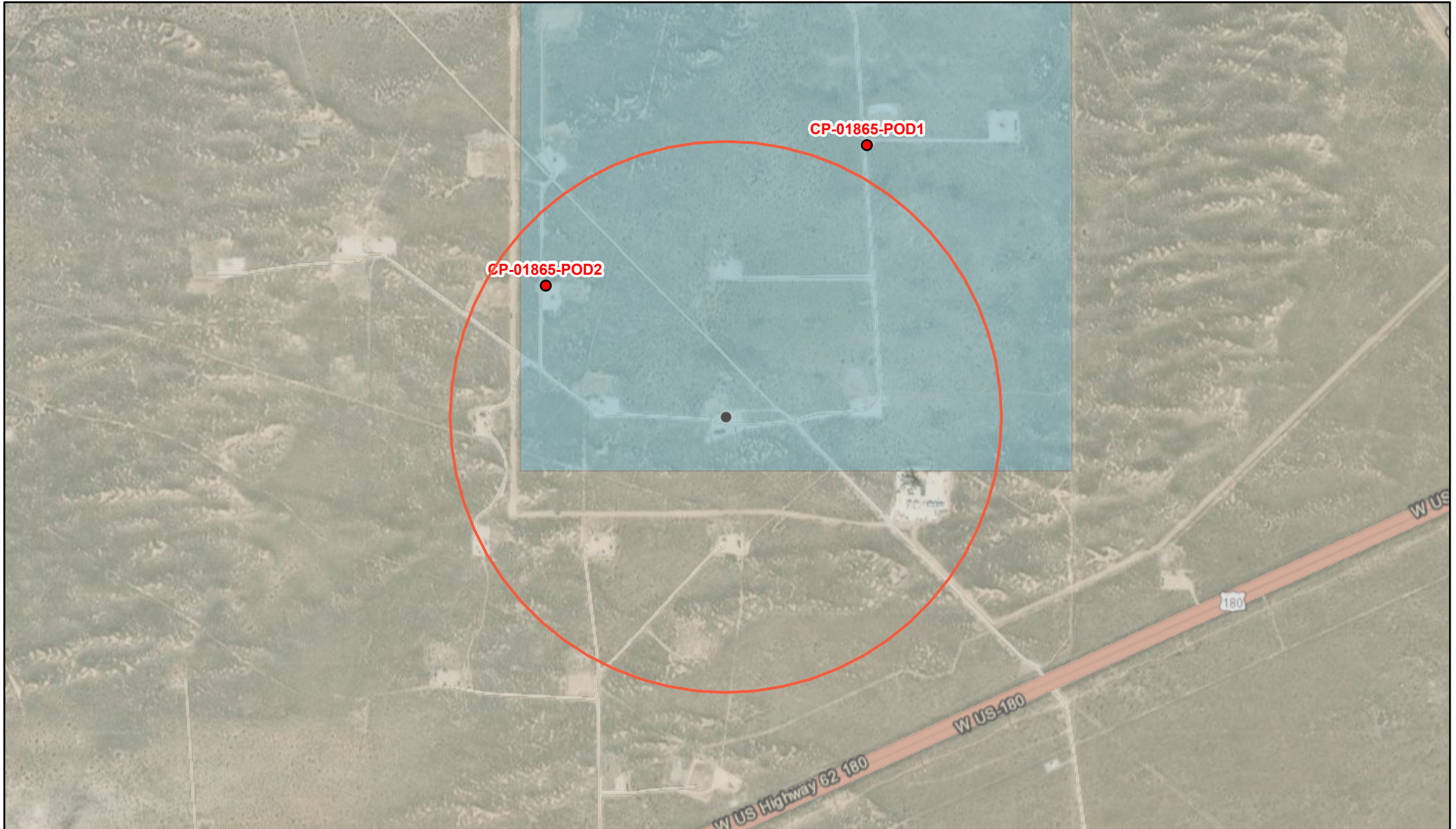
FIGURE 4

SHEET NUMBER:

1 of 1

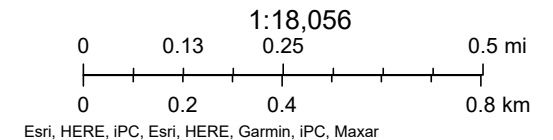
Site Characterization Information

OSE POD Location Map





11/8/2024, 12:43:09 PM

- Override 1
 - OSE District Boundary
 - New Mexico State Trust Lands
 - Both Estates
 - Plugged
 - Closure Area
- GIS WATERS PODs Water Right Regulations



NAD83 UTM in meters

Well										
Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	CP 01865 POD2	SW	NW	SW	02	20S	33E	627454.2	3607733.7	 

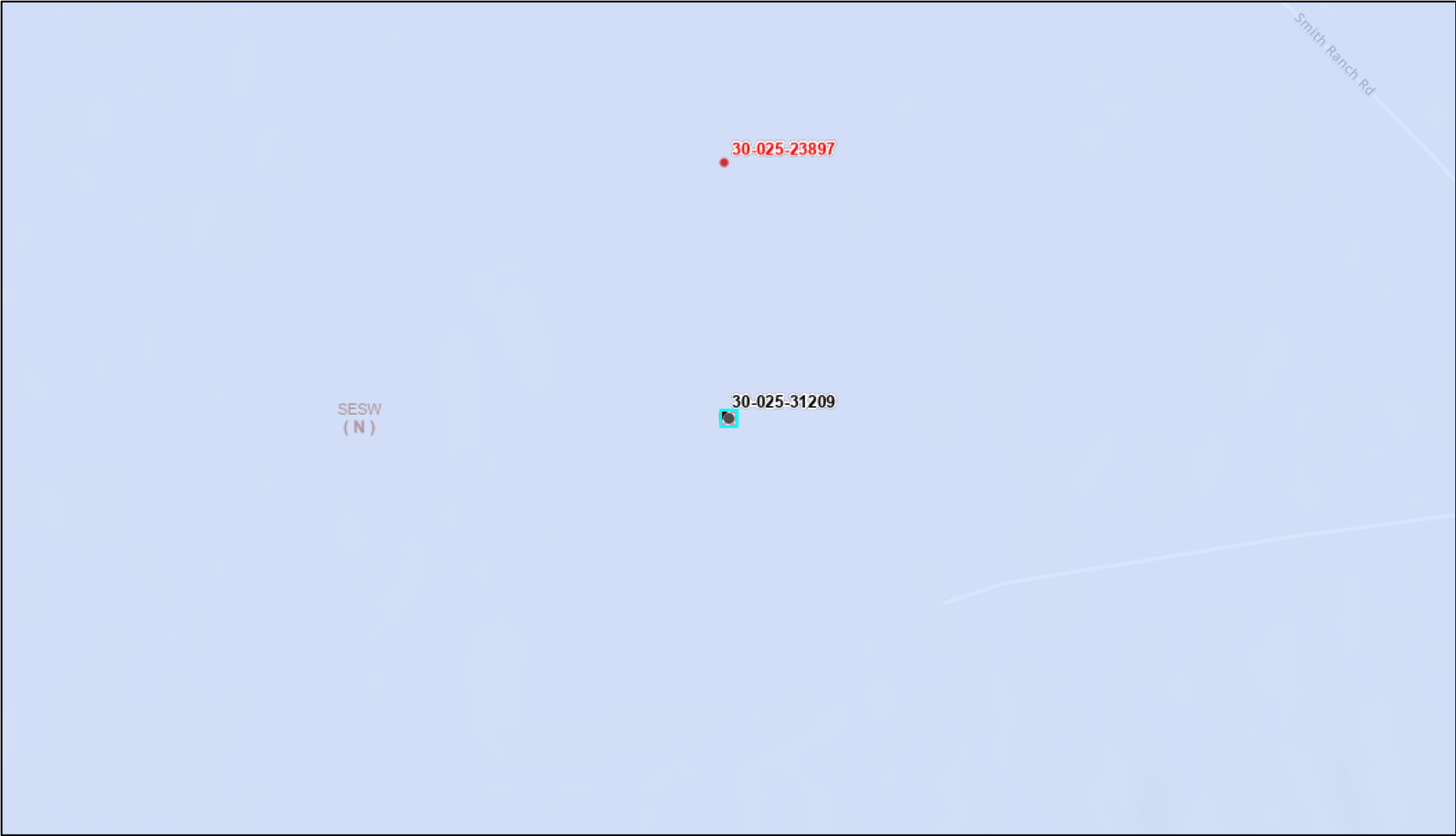
* UTM location was derived from PLSS - see Help

Driller License:	1753	Driller Company:	VANGUARD WELL RESOURCES, LLC		
Driller Name:	FRIESSEN, JACOBOIEL.NER				
Drill Start Date:	2021-02-08	Drill Finish Date:	2021-02-08	Plug Date:	2021-03-08
Log File Date:	2021-07-22	PCW Rcv Date:		Source:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:		Depth Well:	105	Depth Water:	0

11/13/24 10:12 AM MST Point of Diversion Summary

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Karst Potential Map



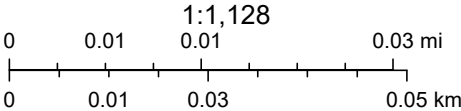
11/8/2024, 12:50:17 PM

Wells - Large Scale Karst Occurrence Potential

 PLSS First Division

 Oil, Active  Low

 Oil, Plugged  PLSS Second Division



BLM, OCD, New Mexico Tech, Sources: Esri, Airbus DS, USGS, NGA, NASA, CGIAR, N Robinson, NCEAS, NLS, OS, NMA, Geodatastyrelsen, Rijkswaterstaat, GSA, Geoland, FEMA, Intermap and the GIS user community, OCD, Esri Community Maps Contributors, New Mexico State University, Texas



U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetlands Map



November 8, 2024

Wetlands



Estuarine and Marine Deepwater



Estuarine and Marine Wetland



Freshwater Emergent Wetland



Freshwater Forested/Shrub Wetland



Freshwater Pond



Lake



Other






Riverine

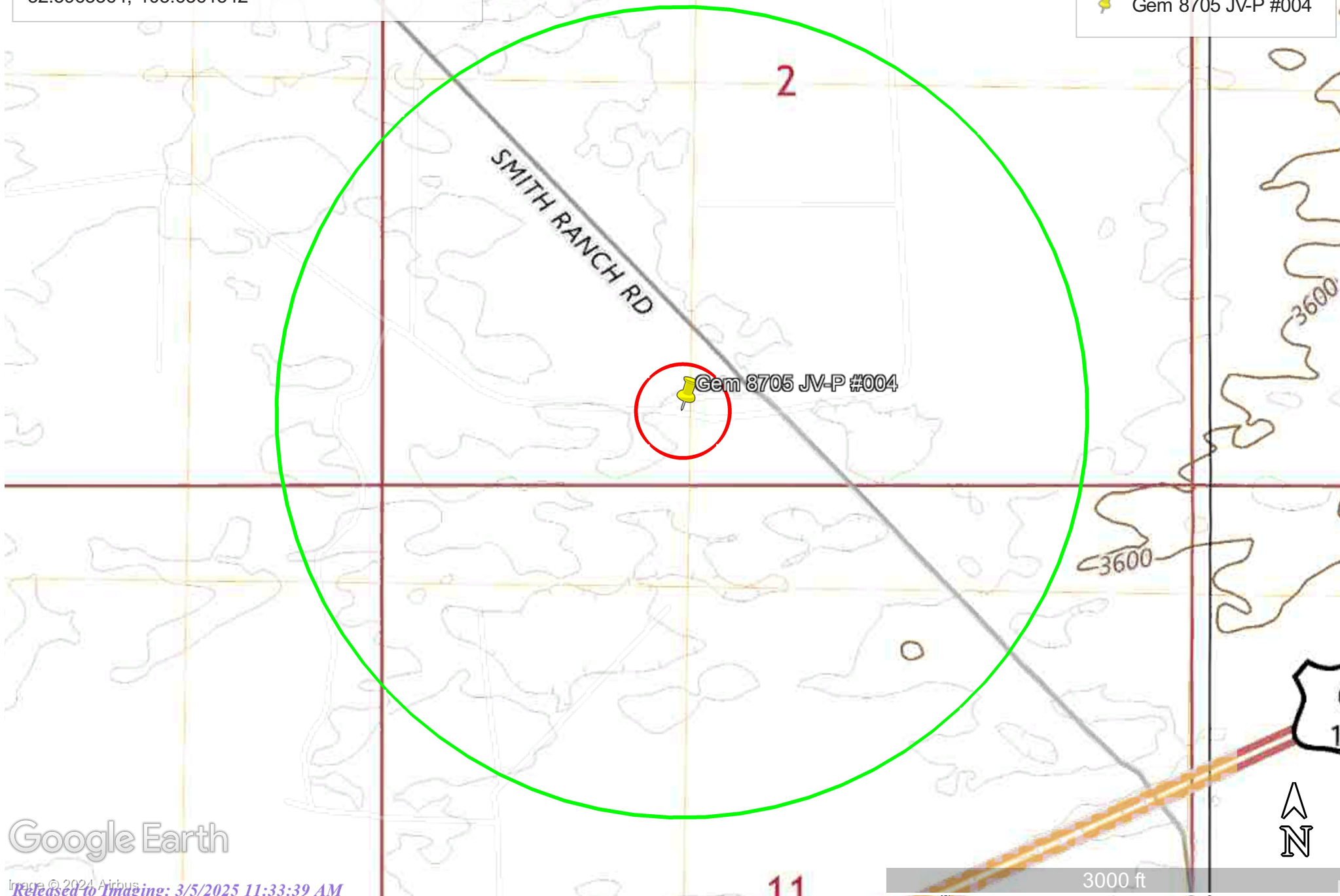
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Significant Watercourse Map

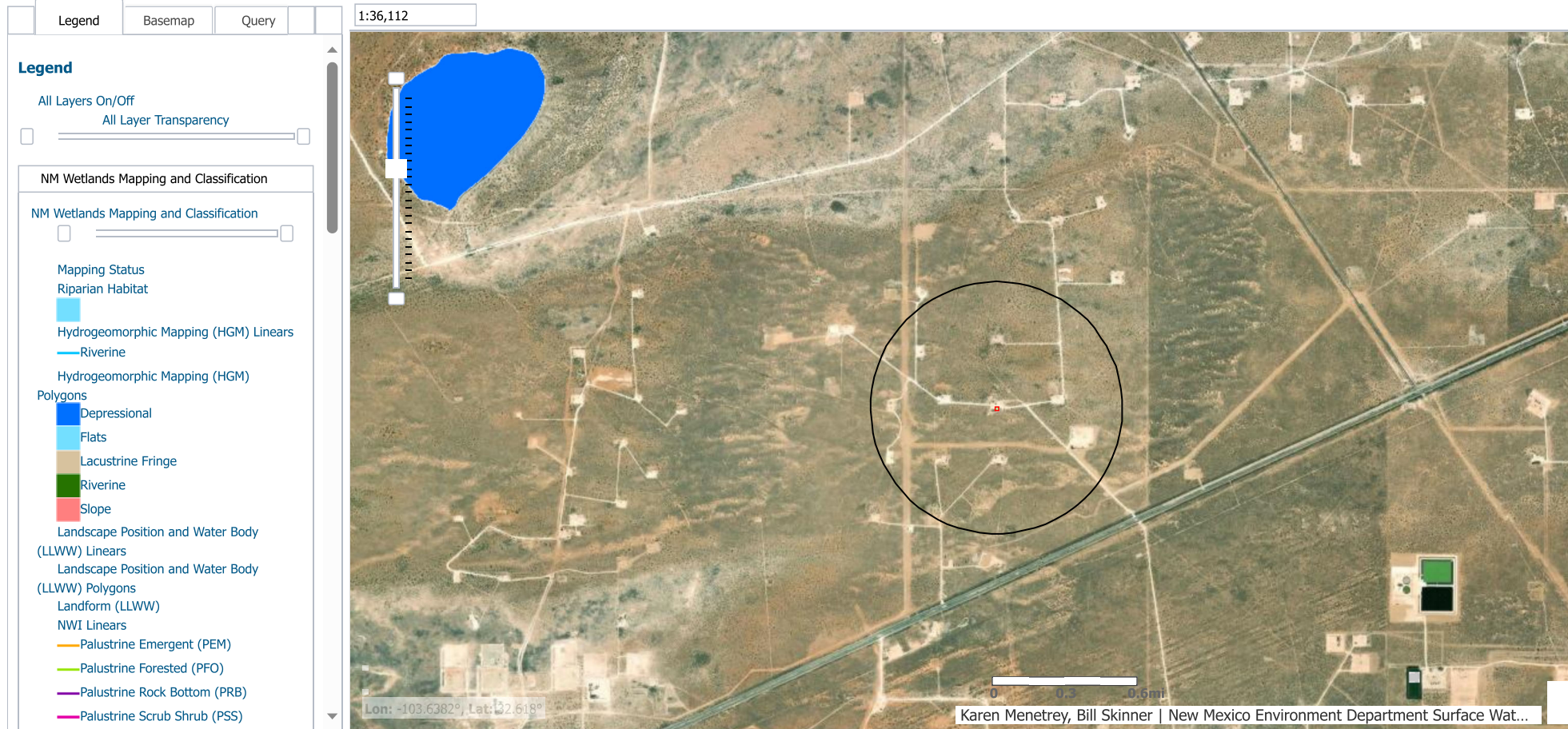
BTA Oil Producers, LLC
Gem 8705 JV-P #004
32.5963364,-103.6361542

Legend

-  0.5 Mile Radius
-  300 ft Radius
-  Gem 8705 JV-P #004



Google Earth



National Flood Hazard Layer FIRMette



103°38'29"W 32°36'2"N



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

1:6,000

103°37'51"W 32°35'32"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 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

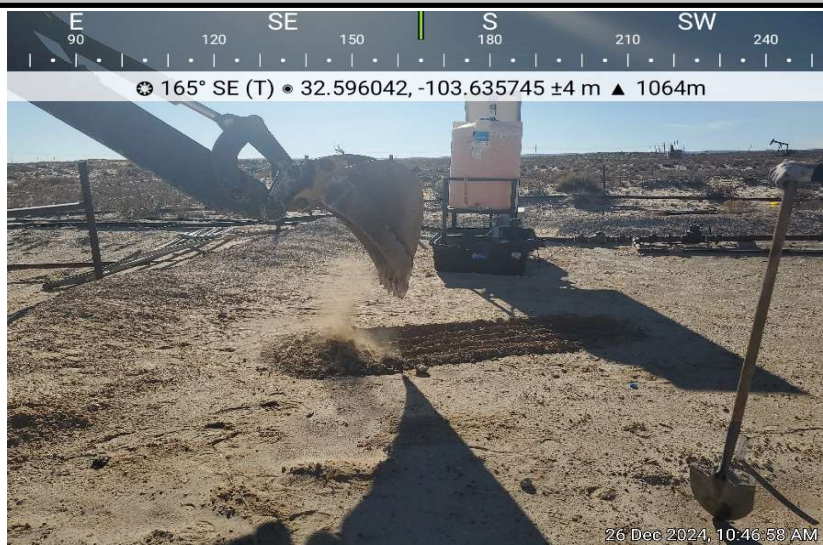
The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **11/8/2024 at 6:40 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded 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.

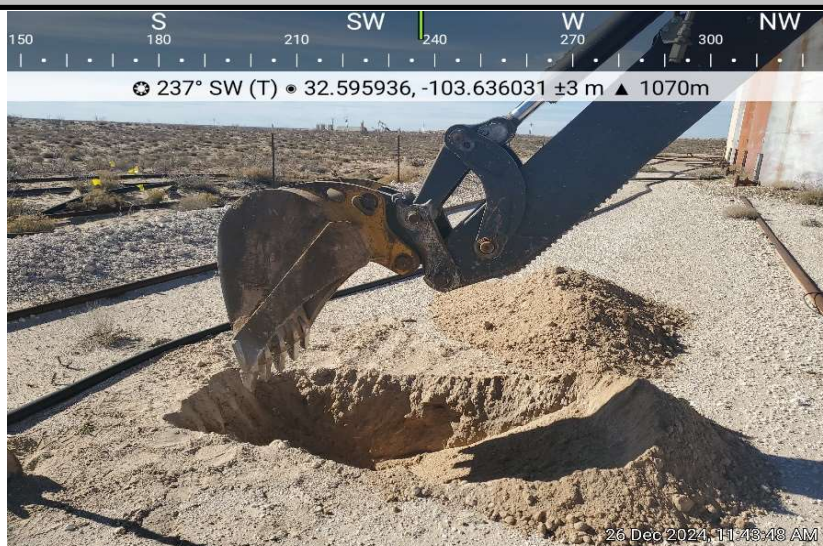
Photographic Log

PHOTOGRAPHIC LOG**BTA Oil Producers
Gem 8705 JV-P #004****Photograph No. 1****Facility:** Gem 8705 JV-P #004**County:** Lea County, New Mexico**Description:**

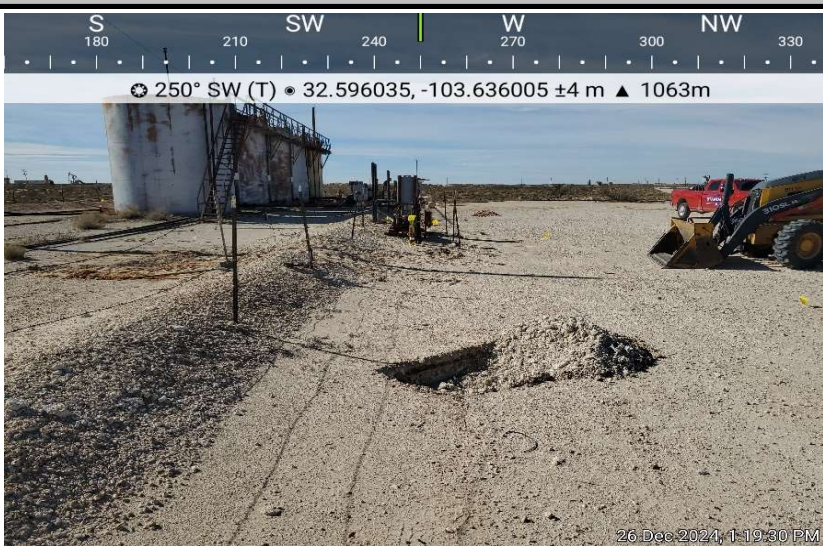
View of Initial Assessment Activities

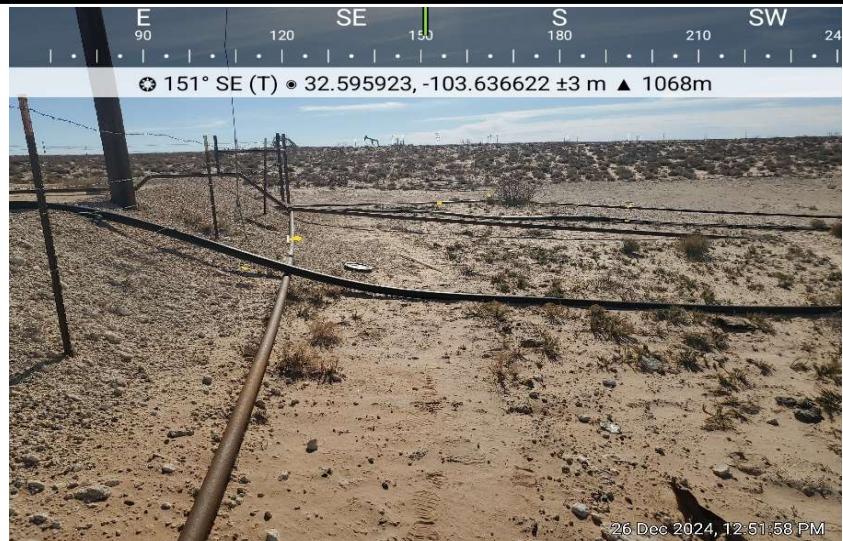
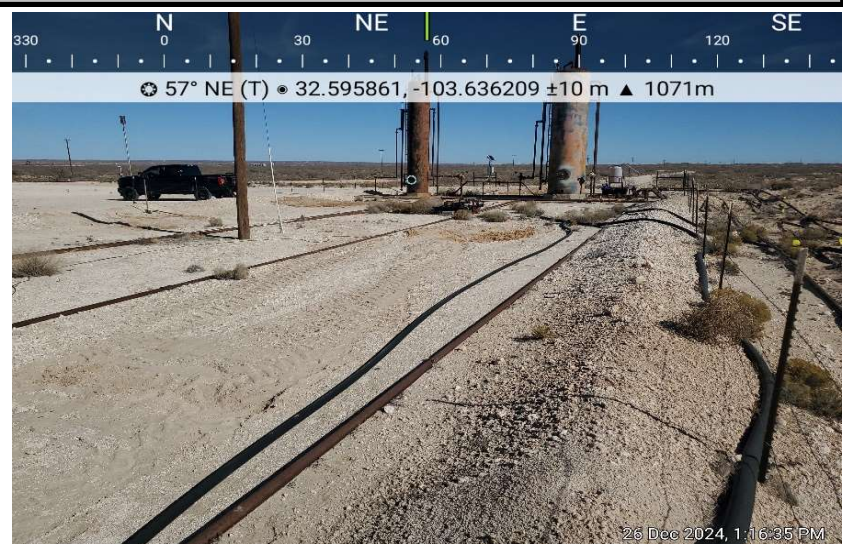
**Photograph No. 2****Facility:** Gem 8705 JV-P #004**County:** Lea County, New Mexico**Description:**

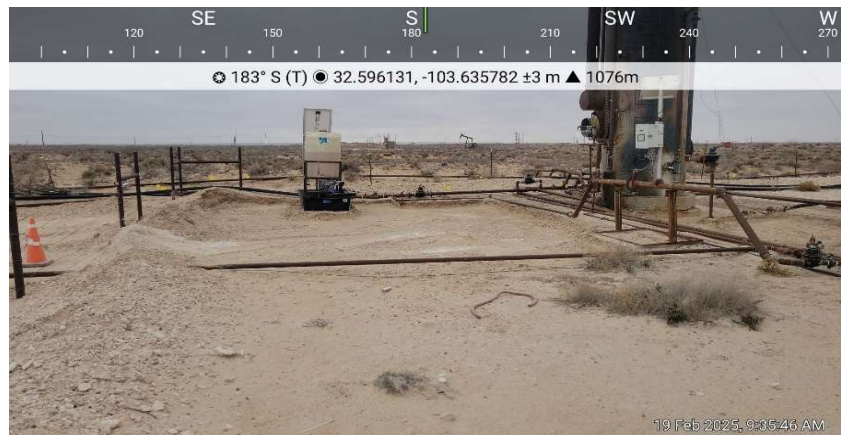
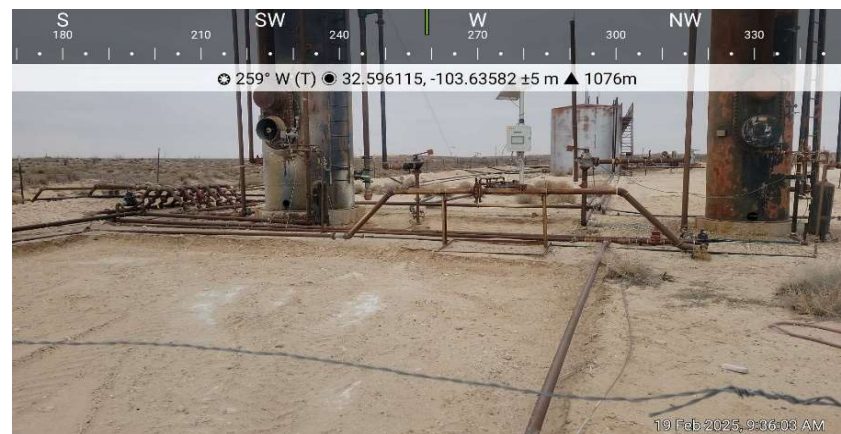
View of Initial Assessment Activities

**Photograph No. 3****Facility:** Gem 8705 JV-P #004**County:** Lea County, New Mexico**Description:**

View of Initial Assessment Activities



PHOTOGRAPHIC LOG**BTA Oil Producers
Gem 8705 JV-P #004****Photograph No. 4****Facility:** Gem 8705 JV-P #004**County:** Lea County, New Mexico**Description:**
View of Initial Assessment Activities**Photograph No. 5****Facility:** Gem 8705 JV-P #004**County:** Lea County, New Mexico**Description:**
View of Initial Assessment Activities**Photograph No. 6****Facility:** Gem 8705 JV-P #004**County:** Lea County, New Mexico**Description:**
View of Initial Assessment Activities

PHOTOGRAPHIC LOG**BTA Oil Producers
Gem 8705 JV-P #004****Photograph No. 7****Facility:** Gem 8705 JV-P #004**County:** Lea County, New Mexico**Description:**
Confirmation Sampling**Photograph No. 8****Facility:** Gem 8705 JV-P #004**County:** Lea County, New Mexico**Description:**
Confirmation Sampling**Photograph No. 9****Facility:** Gem 8705 JV-P #004**County:** Lea County, New Mexico**Description:**
Confirmation Sampling

Laboratory Reports and Chain-of-Custody



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

January 02, 2025

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GEM 8705 JV - P #004

Enclosed are the results of analyses for samples received by the laboratory on 12/26/24 13:14.

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 written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 1 0-6" (H247757-01)

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	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	464	16.0	12/27/2024	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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 95.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 1 1-1.5' (H247757-02)

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	12/27/2024	ND	1.84	92.0	2.00	3.48		
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438		
Total BTEx	<0.300	0.300	12/27/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/27/2024	ND	416	104	400	3.77		

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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 1 2-2.5' (H247757-03)

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	12/27/2024	ND	1.84	92.0	2.00	3.48		
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438		
Total BTEX	<0.300	0.300	12/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/27/2024	ND	416	104	400	3.77		

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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 1 3-3.5' (H247757-04)

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	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/27/2024	ND	416	104	400	3.77	

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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 1 4-4.5' (H247757-05)

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	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/27/2024	ND	416	104	400	3.77	

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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 133 % 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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 0-6" (H247757-06)

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	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/27/2024	ND	416	104	400	3.77	

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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 1-1.5' (H247757-07)

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	12/27/2024	ND	1.84	92.0	2.00	3.48		
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438		
Total BTEX	<0.300	0.300	12/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/27/2024	ND	416	104	400	3.77		

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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 125 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 2-2.5' (H247757-08)

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	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/27/2024	ND	416	104	400	3.77	

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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 131 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 3-3.5' (H247757-09)

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	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/27/2024	ND	416	104	400	3.77	

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	12/27/2024	ND	234	117	200	7.59	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	216	108	200	7.01	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 2 4-4.5' (H247757-10)

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	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/27/2024	ND	416	104	400	3.77	

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 3 0-6" (H247757-11)

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	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/27/2024	ND	416	104	400	3.77	

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 85.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 3 1-1.5' (H247757-12)

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	12/27/2024	ND	1.84	92.0	2.00	3.48		
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438		
Total BTEx	<0.300	0.300	12/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	12/27/2024	ND	416	104	400	3.77		

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 3 2-2.5' (H247757-13)

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	12/27/2024	ND	1.84	92.0	2.00	3.48	
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438	
Total BTEX	<0.300	0.300	12/27/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/27/2024	ND	416	104	400	3.77	

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 3 3-3.5' (H247757-14)

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	12/27/2024	ND	1.84	92.0	2.00	3.48		
Toluene*	<0.050	0.050	12/27/2024	ND	1.78	88.8	2.00	1.38		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.87	93.6	2.00	0.682		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.73	95.5	6.00	0.438		
Total BTEX	<0.300	0.300	12/27/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	12/27/2024	ND	416	104	400	3.77		

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	60.6	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	38.8	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 3 4-4.5' (H247757-15)

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	12/27/2024	ND	1.94	96.9	2.00	4.47		
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56		
Total BTEx	<0.300	0.300	12/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/27/2024	ND	416	104	400	3.77		

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 4 0-6" (H247757-16)

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	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/27/2024	ND	416	104	400	3.77	

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 4 1-1.5' (H247757-17)

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	12/27/2024	ND	1.94	96.9	2.00	4.47		
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56		
Total BTEX	<0.300	0.300	12/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	12/27/2024	ND	416	104	400	3.77		

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 4 2-2.5' (H247757-18)

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	12/27/2024	ND	1.94	96.9	2.00	4.47		
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56		
Total BTEx	<0.300	0.300	12/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/27/2024	ND	416	104	400	3.77		

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	16.3	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 4 3-3.5' (H247757-19)

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	12/27/2024	ND	1.94	96.9	2.00	4.47		
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56		
Total BTEX	<0.300	0.300	12/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/27/2024	ND	416	104	400	3.77		

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 4 4-4.5' (H247757-20)

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	12/27/2024	ND	1.94	96.9	2.00	4.47		
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56		
Total BTEX	<0.300	0.300	12/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/27/2024	ND	416	104	400	3.77		

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 5 0-6" (H247757-21)

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	12/27/2024	ND	1.94	96.9	2.00	4.47		
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56		
Total BTEX	<0.300	0.300	12/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	12/27/2024	ND	416	104	400	3.77		

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	157	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	97.9	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 5 1-1.5' (H247757-22)

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	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	80.0	16.0	12/27/2024	ND	400	100	400	7.69	

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 5 2-2.5' (H247757-23)

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	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	12/27/2024	ND	400	100	400	7.69	

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 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
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 5 3-3.5' (H247757-24)

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	12/27/2024	ND	1.94	96.9	2.00	4.47		
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56		
Total BTEX	<0.300	0.300	12/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	12/27/2024	ND	400	100	400	7.69		

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: V - 5 4-4.5' (H247757-25)

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	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	12/27/2024	ND	400	100	400	7.69	

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 1 0-6" (H247757-26)

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	12/27/2024	ND	1.94	96.9	2.00	4.47		
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56		
Total BTEX	<0.300	0.300	12/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 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	12/27/2024	ND	400	100	400	7.69		

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 2 0-6" (H247757-27)

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	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 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	208	16.0	12/27/2024	ND	400	100	400	7.69	

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 3 0-6" (H247757-28)

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	12/27/2024	ND	1.94	96.9	2.00	4.47		
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56		
Total BTEX	<0.300	0.300	12/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 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	400	16.0	12/27/2024	ND	400	100	400	7.69		

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 4 0-6" (H247757-29)

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	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 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	12/27/2024	ND	400	100	400	7.69	

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	12/27/2024	ND	227	113	200	7.79	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	217	109	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 5 0-6" (H247757-30)

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	12/27/2024	ND	1.94	96.9	2.00	4.47		
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63		
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75		
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56		
Total BTEx	<0.300	0.300	12/27/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	32.0	16.0	12/27/2024	ND	400	100	400	7.69		

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	12/27/2024	ND	245	122	200	7.89	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	224	112	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 12/26/2024
 Reported: 01/02/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 12/26/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: H - 6 0-6" (H247757-31)

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	12/27/2024	ND	1.94	96.9	2.00	4.47	
Toluene*	<0.050	0.050	12/27/2024	ND	2.00	100	2.00	4.63	
Ethylbenzene*	<0.050	0.050	12/27/2024	ND	1.94	97.1	2.00	4.75	
Total Xylenes*	<0.150	0.150	12/27/2024	ND	5.71	95.1	6.00	4.56	
Total BTEX	<0.300	0.300	12/27/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 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	12/27/2024	ND	400	100	400	7.69	

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	12/27/2024	ND	245	122	200	7.89	
DRO >C10-C28*	<10.0	10.0	12/27/2024	ND	224	112	200	6.46	
EXT DRO >C28-C36	<10.0	10.0	12/27/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager




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

Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control 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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No: 4847757

Page 1 of 21

Project Manager:	Ethan Sessums	Bill to: (if different)	Ray Ramos
Company Name:	NTG Environmental	Company Name:	BTA Oil Producers
Address:	209 W. McKay St.	Address:	
City, State ZIP:	Carlsbad, New Mexico, 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntglobal.com

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 II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:		Gem 8705 JV-P #004		Turn Around			ANALYSIS REQUEST												Preservative Codes										
Project Number:		249318		<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush														None: NO		DI Water: H2O								
Project Location:		Lea County, NM		Due Date:														Cool: Cool		MeOH: Me									
Sampler's Name:		Nick Hart		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC		HNO3: HN									
PO #:																		H2SO4: H2		NaOH: Na									
SAMPLE RECEIPT				Temp Blank:		Yes		No		Wet Ice:		Yes		No		Parameters													
Received Intact:				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Thermometer ID:				-0.4°C		TPH 8015																	
Cooler Custody Seals:				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Correction Factor:				-7.3°C		BTEX 8021B																	
Sample Custody Seals:				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Temperature Reading:				3.7°C		Chloride 300.0																	
Total Containers:				31		Corrected Temperature:																HOLD							
Sample Identification		Depth (ft bgs)		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments	
V-1		0-6"		12/26/2024				X				Grab		1		X X X X													
V-1		1-1.5		12/26/2024				X				Grab		1		X X X X													
V-1		2-2.5		12/26/2024				X				Grab		1		X X X X													
V-1		3-3.5		12/26/2024				X				Grab		1		X X X X													
V-1		4-4.5		12/26/2024				X				Grab		1		X X X X													
V-2		0-6"		12/26/2024				X				Grab		1		X X X X													
V-2		1-1.5		12/26/2024				X				Grab		1		X X X X													
V-2		2-2.5		12/26/2024				X				Grab		1		X X X X													
V-2		3-3.5		12/26/2024				X				Grab		1		X X X X													
V-2		4-4.5		12/26/2024				X				Grab		1		X 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
<u>[Signature]</u>	<u>[Signature]</u>	<u>12-26-24 1314</u>			



Chain of Custody

Work Order No: H247757

Page 2 of 4

Project Manager:	Ethan Sessums	Bill to: (if different)	Ray Ramos
Company Name:	NTG Environmental	Company Name:	BTA Oil Producers
Address:	209 W. McKay St.	Address:	
City, State ZIP:	Carlsbad, New Mexico, 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@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 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:	Gem 8705 JV-P #004	Turn Around		Pres. Code	ANALYSIS REQUEST												Preservative Codes		
Project Number:	249318	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush														None: NO	DI Water: H ₂ O	
Project Location:	Lea County, NM	Due Date:															Cool: Cool	MeOH: Me	
Sampler's Name:	Nick Hart	TAT starts the day received by the lab, if received by 4:30pm															HCL: HC	HNO ₃ : HN	
PO #:																	H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Well Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters												HOLD	
Received In tact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:															NaHSO ₄ : HP		
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Correction Factor:															Na ₂ S ₂ O ₃ : NABIS		
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Temperature Reading:															Zn Acetate+NaOH: Zn		
Total Containers:		Corrected Temperature:															NaOH+Ascorbic Acid: SACP		

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/ Comp	# of Cont																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<u>Next day</u>	<u>William C. [Signature]</u>	<u>12-26-24/134</u>			



Chain of Custody

Work Order No: H247757

Page 3 of 4

Project Manager:	Ethan Sessums	Bill to: (if different)	Ray Ramos
Company Name:	NTG Environmental	Company Name:	BTA Oil Producers
Address:	209 W. McKay St.	Address:	
City, State ZIP:	Carlsbad, New Mexico, 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Unperfund <input type="checkbox"/>	
State of Project:	
Reporting 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:		Gem 8705 JV-P #004		Turn Around		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		Pres. Code		ANALYSIS REQUEST												Preservative Codes							
Project Number:		249318		Due Date:																		None: NO DI Water: H ₂ O							
Project Location:		Lea County, NM		TAT starts the day received by the lab, if received by 4:30pm																		Cool: Cool MeOH: Me							
Sampler's Name:		Nick Hart																				HCL: HC HNO ₃ : HN							
PO #:																						H ₂ SO ₄ : H ₂ NaOH: Na							
SAMPLE RECEIPT				Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Well Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Parameters												H ₃ PO ₄ : HP					
Received In tact:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:						TPH 8015												NaHSO ₄ : NABIS					
Cooler Custody Seals:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor:						BTEX 8021B												Na ₂ S ₂ O ₃ : NaSO ₃					
Sample Custody Seals:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Temperature Reading:						Chloride 300.0												Zn Acetate+NaOH: Zn					
Total Containers:				31		Corrected Temperature:																		NaOH+Ascorbic Acid: SAPC					
Sample Identification		Depth (ft bgs)		Date		Time		Soil		Water		Grab/ Comp		# of Cont														Sample Comments	
V-5		0-6"		12/26/2024				X				Grab		1		X X X X X													
V-5		1-1.5		12/26/2024				X				Grab		1		X X X X X													
V-5		2-2.5		12/26/2024				X				Grab		1		X X X X X													
V-5		3-3.5		12/26/2024				X				Grab		1		X X X X X													
V-5		4-4.5		12/26/2024				X				Grab		1		X X X X X													
H-1		0-6"		12/26/2024				X				Grab		1		X X X X X													
H-2		0-6"		12/26/2024				X				Grab		1		X X X X X													
H-3		0-6"		12/26/2024				X				Grab		1		X X X X X													
H-4		0-6"		12/26/2024				X				Grab		1		X X X X X													
H-5		0-6"		12/26/2024				X				Grab		1		X X X X X													

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <u>Nice Hog</u>	<u>[Signature]</u>	<u>12-26-24 1342</u>			
3					
5					



Chain of Custody

Work Order No: HA247757

Page 4 of 4

Project Manager:	Ethan Sessums	Bill to: (if different)	Ray Ramos
Company Name:	NTG Environmental	Company Name:	BTX Oil Producers
Address:	209 W. McKay St.	Address:	
City, State ZIP:	Carlsbad, New Mexico, 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@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 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:	

ANALYSIS REQUEST						Preservative Codes	
Project Name:	Gem 8705 JV-P #004	Turn Around		<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush	Pres. Code	
Project Number:	249318			Due Date:			
Project Location	Lea County, NM			TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Nick Hart						
PO #:							
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="radio"/> No <input type="radio"/>	Wet Ice:	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Received Inact:	Yes <input checked="" type="radio"/> No <input type="radio"/>	Thermometer ID:			#140		
Cooler Custody Seals:	Yes <input type="radio"/> No <input checked="" type="radio"/>	Correction Factor:			-0.06°C		
Sample Custody Seals:	Yes <input type="radio"/> No <input checked="" type="radio"/>	Temperature Reading:			4.3°C		
Total Containers:	45	Corrected Temperature:			3.7°C		
Parameters							
TPH 8015							
BTEX 8021B							
Chloride 300.0						4500 Top - 12/26/24	
HOLD							
None: NO		DI Water: H ₂ O					
Cool: Cool		MeOH: Me					
HCL: HC		HNO ₃ : HN					
H ₂ SO ₄ : H ₂		NaOH: Na					
H ₃ PO ₄ : HP							
NaHSO ₄ : NABIS							
Na ₂ S ₂ O ₃ : NaSO ₃							
Zn Acetate+NaOH: Zn							
NaOH+Ascorbic Acid: SAPC							

[illegible]

Additional Comments:

Notices: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xencio, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xencio 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 Xencio. A minimum charge of \$35.00 will be applied to each project and a charge of \$5 for each sample submitted to Xencio, 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 <i>[Signature]</i>	<i>[Signature]</i>	12-26-2013	2		
3			4		
5			6		



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

February 05, 2025

KELLAN SMITH

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GEM 8705 JV - P #004

Enclosed are the results of analyses for samples received by the laboratory on 01/30/25 10:38.

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 written in a cursive, flowing style.

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: 01/30/2025
 Reported: 02/05/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 01/30/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 1 0.5' (H250559-01)

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	01/30/2025	ND	1.83	91.3	2.00	0.0729	
Toluene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	0.208	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	1.89	94.3	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	5.50	91.7	6.00	0.551	
Total BTX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	624	16.0	01/30/2025	ND	416	104	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	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 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: 01/30/2025
 Reported: 02/05/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 01/30/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 2 0.5' (H250559-02)

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	01/30/2025	ND	1.83	91.3	2.00	0.0729	
Toluene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	0.208	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	1.89	94.3	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	5.50	91.7	6.00	0.551	
Total BTEx	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	320	16.0	01/30/2025	ND	416	104	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	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 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: 01/30/2025
 Reported: 02/05/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 01/30/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 3 0.5' (H250559-03)

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	01/30/2025	ND	1.83	91.3	2.00	0.0729	
Toluene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	0.208	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	1.89	94.3	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	5.50	91.7	6.00	0.551	
Total BTEX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 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	560	16.0	01/30/2025	ND	416	104	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	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.7 % 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: 01/30/2025
 Reported: 02/05/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 01/30/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 4 0.5' (H250559-04)

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	01/30/2025	ND	1.83	91.3	2.00	0.0729	
Toluene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	0.208	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	1.89	94.3	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	5.50	91.7	6.00	0.551	
Total BTEX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.4 % 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	800	16.0	01/30/2025	ND	416	104	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	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 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: 01/30/2025
 Reported: 02/05/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 01/30/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 5 0.5' (H250559-05)

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	01/30/2025	ND	1.83	91.3	2.00	0.0729	
Toluene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	0.208	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	1.89	94.3	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	5.50	91.7	6.00	0.551	
Total BTX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 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	01/30/2025	ND	416	104	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	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	95.1	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	90.5	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 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: 01/30/2025
 Reported: 02/05/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 01/30/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 6 0.5' (H250559-06)

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	01/30/2025	ND	1.83	91.3	2.00	0.0729	
Toluene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	0.208	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	1.89	94.3	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	5.50	91.7	6.00	0.551	
Total BTEX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	672	16.0	01/30/2025	ND	416	104	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	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 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: 01/30/2025
 Reported: 02/05/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 01/30/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 7 0.5' (H250559-07)

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	01/30/2025	ND	1.83	91.3	2.00	0.0729	
Toluene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	0.208	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	1.89	94.3	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	5.50	91.7	6.00	0.551	
Total BTX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.4 % 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	01/30/2025	ND	416	104	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	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 99.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 01/30/2025
 Reported: 02/05/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 01/30/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 0-0.5' (H250559-08)

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	01/30/2025	ND	1.83	91.3	2.00	0.0729	
Toluene*	<0.050	0.050	01/30/2025	ND	1.94	97.2	2.00	0.208	
Ethylbenzene*	<0.050	0.050	01/30/2025	ND	1.89	94.3	2.00	0.534	
Total Xylenes*	<0.150	0.150	01/30/2025	ND	5.50	91.7	6.00	0.551	
Total BTX	<0.300	0.300	01/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	784	16.0	01/30/2025	ND	416	104	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	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 91.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 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: 01/30/2025
 Reported: 02/05/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 01/30/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 2 0-0.5' (H250559-09)

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	01/31/2025	ND	1.83	91.3	2.00	0.0729		
Toluene*	<0.050	0.050	01/31/2025	ND	1.94	97.2	2.00	0.208		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	1.89	94.3	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	5.50	91.7	6.00	0.551		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.2 % 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	560	16.0	01/30/2025	ND	416	104	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	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.9 % 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: 01/30/2025
 Reported: 02/05/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 01/30/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 0-0.5' (H250559-10)

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	01/31/2025	ND	1.83	91.3	2.00	0.0729		
Toluene*	<0.050	0.050	01/31/2025	ND	1.94	97.2	2.00	0.208		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	1.89	94.3	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	5.50	91.7	6.00	0.551		
Total BTX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.7 % 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	800	16.0	01/30/2025	ND	416	104	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	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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: 01/30/2025
 Reported: 02/05/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 01/30/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4 0-0.5' (H250559-11)

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	01/31/2025	ND	1.83	91.3	2.00	0.0729		
Toluene*	<0.050	0.050	01/31/2025	ND	1.94	97.2	2.00	0.208		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	1.89	94.3	2.00	0.534		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	5.50	91.7	6.00	0.551		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 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	736	16.0	01/30/2025	ND	416	104	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	01/30/2025	ND	184	92.1	200	7.15	
DRO >C10-C28*	<10.0	10.0	01/30/2025	ND	157	78.3	200	8.51	
EXT DRO >C28-C36	<10.0	10.0	01/30/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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.
- 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", written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No:

4250555

Project Manager:	Kellan Smith	Bill to: (if different)	Ray Ramos
Company Name:	NTG Environmental	Company Name:	BTA Oil Producers
Address:	13212 N. MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(832) 374-0004	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:		Gem 8705 JV-P #004		Turn Around		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush		ANALYSIS REQUEST												Preservative Codes															
Project Number:		249318		Due Date:																None: NO DI Water: H ₂ O															
Project Location		Lea County, NM		Due Date:																Cool: Cool MeOH: Me															
Sampler's Name:		Clayton Tumas		Due Date:																HCL: HC HNO ₃ : HN															
PO #:				Due Date:																H ₂ SO ₄ : H ₂ NaOH: Na															
SAMPLE RECEIPT				Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Wet Ice:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>														H ₃ PO ₄ : HP											
Received In tact:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:				140														NaHSO ₄ : NABIS											
Cooler Custody Seals:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Correction Factor:				-0.00														Na ₂ S ₂ O ₃ : NaSO ₃											
Sample Custody Seals:				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Temperature Reading:				1.70														Zn Acetate+NaOH: Zn											
Total Containers:				11		Corrected Temperature:				1.10														NaOH+Ascorbic Acid: SAPC											
Sample Identification		Depth (ft bgs)		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments							
CS-1		0.5'		1/30/2025				X				Comp		1		X		X		X															
CS-2		0.5'		1/30/2025				X				Comp		1		X		X		X															
CS-3		0.5'		1/30/2025				X				Comp		1		X		X		X															
CS-4		0.5'		1/30/2025				X				Comp		1		X		X		X															
CS-5		0.5'		1/30/2025				X				Comp		1		X		X		X															
CS-6		0.5'		1/30/2025				X				Comp		1		X		X		X															
CS-7		0.5'		1/30/2025				X				Comp		1		X		X		X															
SW-1		0-0.5'		1/30/2025				X				Comp		1		X		X		X															
SW-2		0-0.5'		1/30/2025				X				Comp		1		X		X		X															
SW-3		0-0.5'		1/30/2025				X				Comp		1		X		X		X															
Additional Comments: BTA Maintenance Number: 1111																																			

NMDCO ID: NTO1414738096

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	13035 1038			



Chain of Custody

Work Order No: H250559

Page 2 of 2

Project Manager:	Kellan Smith	Bill to: (if different)	Ray Ramos
Company Name:	NTG Environmental	Company Name:	BTA Oil Producers
Address:	13212 N. MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(832) 374-0004	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 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:	Gem 8705 JV-P #004	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes											
Project Number:	249318																	None: NO DI Water: H ₂ O											
Project Location:	Lea County, NM	Due Date:																Cool: Cool MeOH: Me											
Sampler's Name:	Clayton Tumas																	HCL: HC HNO ₃ : HN											
PO #:																		H ₂ SO ₄ : H ₂ NaOH: Na											
SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													H ₃ PO ₄ : HP											
Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:																NaHSO ₄ : NABIS											
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Correction Factor:																Na ₂ S ₂ O ₅ : NaSO ₃											
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Temperature Reading:																Zn Acetate+NaOH: Zn											
Total Containers:	11	Corrected Temperature:																NaOH+Ascorbic Acid: SAPC											

Additional Comments: BTA Maintenance Number: N/A UMCD ID: NTD1414738096

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	1:30:25 1038			
		2			
		4			
		6			



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February 24, 2025

KELLAN SMITH

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: GEM 8705 JV - P #004

Enclosed are the results of analyses for samples received by the laboratory on 02/19/25 10:45.

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 written in a cursive, flowing style.

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: 02/19/2025
 Reported: 02/24/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 1 1' (H250980-01)

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	02/20/2025	ND	1.80	89.9	2.00	0.0306	
Toluene*	<0.050	0.050	02/20/2025	ND	1.93	96.7	2.00	0.104	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	1.93	96.6	2.00	0.485	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	5.72	95.4	6.00	0.636	
Total BTEX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 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	<16.0	16.0	02/20/2025	ND	400	100	400	7.69		

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	2.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	227	114	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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: 02/19/2025
 Reported: 02/24/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 4 1' (H250980-02)

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	1.80	89.9	2.00	0.0306	
Toluene*	<0.050	0.050	02/20/2025	ND	1.93	96.7	2.00	0.104	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	1.93	96.6	2.00	0.485	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	5.72	95.4	6.00	0.636	
Total BTEX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 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	<16.0	16.0	02/20/2025	ND	400	100	400	7.69	

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	2.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	227	114	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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: 02/19/2025
 Reported: 02/24/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 5 1' (H250980-03)

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	1.80	89.9	2.00	0.0306		
Toluene*	<0.050	0.050	02/20/2025	ND	1.93	96.7	2.00	0.104		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	1.93	96.6	2.00	0.485		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	5.72	95.4	6.00	0.636		
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: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	02/20/2025	ND	400	100	400	7.69		

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	2.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	227	114	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 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: 02/19/2025
 Reported: 02/24/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 6 1' (H250980-04)

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	1.80	89.9	2.00	0.0306	
Toluene*	<0.050	0.050	02/20/2025	ND	1.93	96.7	2.00	0.104	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	1.93	96.6	2.00	0.485	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	5.72	95.4	6.00	0.636	
Total BTEX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	<16.0	16.0	02/20/2025	ND	400	100	400	7.69	

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	2.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	227	114	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 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: 02/19/2025
 Reported: 02/24/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 8 1' (H250980-05)

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	1.80	89.9	2.00	0.0306		
Toluene*	<0.050	0.050	02/20/2025	ND	1.93	96.7	2.00	0.104		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	1.93	96.6	2.00	0.485		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	5.72	95.4	6.00	0.636		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	48.0	16.0	02/20/2025	ND	400	100	400	7.69		

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	2.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	227	114	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 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: 02/19/2025
 Reported: 02/24/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1A 0-1' (H250980-06)

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	1.80	89.9	2.00	0.0306	
Toluene*	<0.050	0.050	02/20/2025	ND	1.93	96.7	2.00	0.104	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	1.93	96.6	2.00	0.485	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	5.72	95.4	6.00	0.636	
Total BTEX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	<16.0	16.0	02/20/2025	ND	400	100	400	7.69		

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	2.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	227	114	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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: 02/19/2025
 Reported: 02/24/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3A 0-1' (H250980-07)

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	1.80	89.9	2.00	0.0306	
Toluene*	<0.050	0.050	02/20/2025	ND	1.93	96.7	2.00	0.104	
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	1.93	96.6	2.00	0.485	
Total Xylenes*	<0.150	0.150	02/20/2025	ND	5.72	95.4	6.00	0.636	
Total BTEX	<0.300	0.300	02/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 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	32.0	16.0	02/20/2025	ND	400	100	400	7.69	

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	2.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	227	114	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 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: 02/19/2025
 Reported: 02/24/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4A 0-1' (H250980-08)

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	1.80	89.9	2.00	0.0306		
Toluene*	<0.050	0.050	02/20/2025	ND	1.93	96.7	2.00	0.104		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	1.93	96.6	2.00	0.485		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	5.72	95.4	6.00	0.636		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	<16.0	16.0	02/20/2025	ND	400	100	400	7.69		

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	2.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	227	114	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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: 02/19/2025
 Reported: 02/24/2025
 Project Name: GEM 8705 JV - P #004
 Project Number: 249318
 Project Location: BTA - LEA CO NM

Sampling Date: 02/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 5A 0.5-1' (H250980-09)

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	1.80	89.9	2.00	0.0306		
Toluene*	<0.050	0.050	02/20/2025	ND	1.93	96.7	2.00	0.104		
Ethylbenzene*	<0.050	0.050	02/20/2025	ND	1.93	96.6	2.00	0.485		
Total Xylenes*	<0.150	0.150	02/20/2025	ND	5.72	95.4	6.00	0.636		
Total BTEX	<0.300	0.300	02/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	<16.0	16.0	02/20/2025	ND	400	100	400	7.69		

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	2.62	
DRO >C10-C28*	<10.0	10.0	02/20/2025	ND	227	114	200	0.739	
EXT DRO >C28-C36	<10.0	10.0	02/20/2025	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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: 14850980

Page 1 of 1

Project Manager:	Kellian Smith	Bill to: (if different)	Ray Ramos
Company Name:	NTG Environmental	Company Name:	BTA Oil Producers
Address:	13212 N. MacArthur Blvd	Address:	
City, State ZIP:	Oklahoma City, OK 73142	City, State ZIP:	
Phone:	(832) 374-0004	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 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:	Gem 8705 JV-P #004	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code	
Project Number:	249318	Due Date:			
Project Location:	Lea County, NM	TAT starts the day received by the lab, if received by 4:30pm			
Sampler's Name:	Clayton Tumas				
PO #:		Wet Ice:	(Yes) No		
SAMPLE RECEIPT		Temp Blank:	Yes (No) No		
Received Intact:	Yes (No) No	Thermometer ID:	140		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.3		
Sample Custody Seals:	Yes (No) N/A	Temperature Reading:	-10.7		
Total Containers:	9	Corrected Temperature:	-10.4		
Parameters					
TPH 8015					
BTEX 8021B					
Chloride 4500					
HOLD					
Preservative Codes					
None: NO DI Water: H ₂ O					
Cool: Cool MeOH: Me					
HCL: HC HNO ₃ : HN					
H ₂ SO ₄ : H ₂ NaOH: Na					
H ₃ PO ₄ : HP					
NaHSO ₄ : NABIS					
Na ₂ S ₂ O ₃ : NaSO ₃					
Zn Acetate+NaOH: Zn					
NaOH+Ascorbic Acid: SAPC					

Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Additional Comments: BTA Maintenance Number: 20035

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

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 438892

QUESTIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 438892
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nTO1414738096
Incident Name	NT01414738096 GEM 8705 JV-P #004 @ 30-025-31209
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-31209] GEM 8705 JV-P #004

Location of Release Source

Please answer all the questions in this group.

Site Name	GEM 8705 JV-P #004
Date Release Discovered	05/15/2014
Surface Owner	State

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: Other Flow Line - Production Crude Oil Released: 8 BBL Recovered: 4 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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 438892

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 438892
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Ray Ramos Title: Environmental Manager Email: rramos@btaoil.com Date: 01/21/2025
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QUESTIONS, Page 3

Action 438892

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID:
	260297
	Action Number:
	438892
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 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 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
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

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<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)	3080
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	254.9
GRO+DRO (EPA SW-846 Method 8015M)	157
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	02/03/2025
On what date will (or did) the final sampling or liner inspection occur	02/05/2025
On what date will (or was) the remediation complete(d)	02/07/2025
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	1328
What is the estimated volume (in cubic yards) that will be remediated	32

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 438892

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 438892
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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: Ray Ramos Title: Environmental Manager Email: rramos@btaoil.com Date: 01/21/2025
<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>	

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QUESTIONS, Page 5

Action 438892

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 438892
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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Action 438892

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 438892
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	432635
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/19/2025
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	975

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1577
What was the total volume (cubic yards) remediated	46
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	n/a

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

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

I hereby agree and sign off to the above statement	Name: Ray Ramos Title: Environmental Manager Email: rramos@btaoil.com Date: 03/04/2025
--	---

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QUESTIONS, Page 7

Action 438892

QUESTIONS (continued)

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 438892
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

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

CONDITIONS

Action 438892

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 438892
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	3/5/2025
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	3/5/2025
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/5/2025