

Incident ID	nAPP2305332447 <i>Page 1 of 66</i>
District RP	
Facility ID	
Application ID	

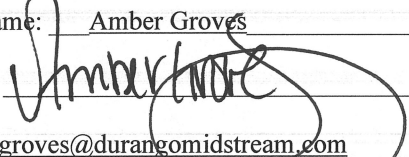
## Closure

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**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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Printed Name: Amber Groves Title: Sr. Environmental Specialist  
Signature:  Date: 3/15/2023  
email: agroves@durangomidstream.com Telephone: 575-703-7992

### OCD Only

Received by: Jocelyn Harimon Date: 03/20/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 7/28/2023  
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

Incident ID	nAPP2303345440
District RP	
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Application ID	

## Site Assessment/Characterization

*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?	<u>undetermined</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

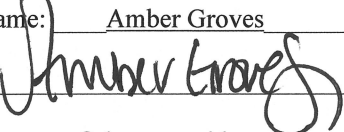
- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



Incident ID	nAPP2303345440 <b>Page 3 of 66</b>
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Printed Name: Amber Groves Title: Sr. Environmental Specialist  
Signature:  Date: 3/15/2023  
email: agroves@durangomidstream.com Telephone: (575)703-7992

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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## Remediation Plan

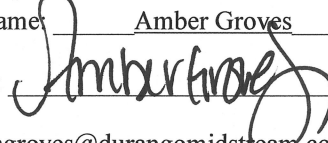
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Signature:  Date: 3/15/2023  
email: agroves@durangomidstream.com Telephone: (575)703-7992

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



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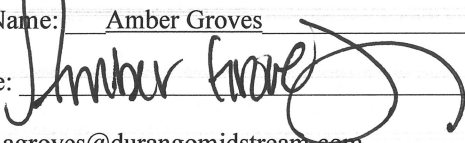
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Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

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Printed Name: Amber Groves Title: Sr. Environmental Specialist

Signature:  Date: 3/15/2023

email: agroves@durangomidstream.com Telephone: (575)703-7992

**OCD Only**

Received by: Jocelyn Harimon Date: 03/20/2023

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## Remediation Plan

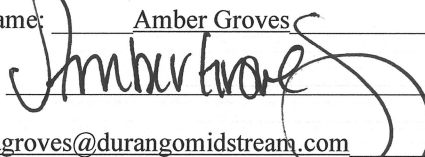
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Printed Name: Amber Groves Title: Sr. Environmental Specialist  
Signature:  Date: 3/15/2023  
email: agroves@durangomidstream.com Telephone: (575)703-7992

**OCD Only**

Received by: Jocelyn Harimon Date: 03/20/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_



Incident ID	nAPP2305332447 <i>Page 9 of 66</i>
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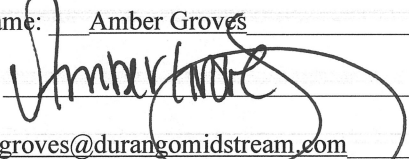
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Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

**Frontier Field Services, LLC**

Elliot Fed 1 Steel Line 2 and Santo Nino Elliot Fed 1 to Fed 2  
32.719488°, -104.009502°  
NMOCD Reference # nAPP2303345440 & nAPP2305332447  
Terracon Project # KH237012



Attn: New Mexico Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, NM 87505

**RE: Release Investigation, and Closure Report**

Elliot Fed 1 Steel Line 2 and Santo Nino Elliot Fed 1 to Fed 2  
Unit G, Section 30, Township 18 South, Range 30 East  
32.7195315°, -104.0095510°  
Eddy County, New Mexico  
Terracon Project No. KH23012

To Whom it May Concern:

Terracon Consultants, Inc. (Terracon) is pleased to submit our Release Investigation and Closure Report for the site referenced above. The scope of services was developed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations concerning clean-up actions required for releases of crude oil and produced water. The investigative response actions resulted from a natural gas release from a corroded lateral line. The below sections detail Terracon's assessment and remediation actions in response to the noted releases.

**Action Items****Completed Actions**

- 1) Initial site assessment and sampling events completed.
- 2) All conditions needed for approval of closure have been met.
- 3) All Maps and associated data for approval have been provided.
- 4) Conducted an initial site assessment and a series of sampling events.
- 5) Soil samples collected from the excavation were submitted to an accredited laboratory to determine levels of impact vertically and horizontally.
- 6) Excavation of the inferred release area was completed with the intent to remove impacted soil as determined by the Closure Criteria set by NMOCD.
- 7) Soil stockpiles were placed on plastic and bermed around the edges to reduce loss.
- 8) Confirmation samples from the excavation extent were collected every 200 sq. ft.
- 9) Remedial activities were terminated when a confirmation sample was collected below the NMOCD RALs for Oil and Gas impacted soils.

Explore with us



**Frontier Field Services, LLC**

Elliot Fed 1 Steel Line 2 and Santo Nino Elliot Fed 1 to Fed 2

32.719488°, -104.009502°

NMOCD Reference # nAPP2303345440 & nAPP2305332447

Terracon Project # KH237012



**Anticipated Actions**

- 
- 1) Following the completion of remedial activities, excavated areas are to be backfilled, brought to the surrounding grade, and reseeded.
  - 2) Approval by the NMOCD.
- 

Terracon appreciates this opportunity to provide environmental services to Frontier Field Services, LLC. Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,

**Terracon Consultants, Inc.**

A handwritten signature in black ink, appearing to read 'Travis Casey', is written over the printed name and title.

**Travis Casey**  
Senior Staff Scientist  
Carlsbad

A handwritten signature in black ink, appearing to read 'Erin Loyd', is written over the printed name and title.

**Erin Loyd, P.G. (TX)**  
Senior Principal  
Office Manager – Lubbock

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#### **Attachments:**

##### **Appendix A – Exhibits**

- Exhibit 1 – Topographic Map
- Exhibit 2 – Site Map
- Exhibit 3 – Confirmation Sample Map
- Exhibit 4 – NMOSE POD Location Map
- Exhibit 5 – Wetland Map
- Exhibit 6 – Cave Karst Public UCP Map

##### **Appendix B – Tables, Procedures, and Figures**

- Table 1 – Soil Sample Analytical Results

##### **Appendix C – Photographic Log**

##### **Appendix D – Analytical Report and Chain of Custody**

##### **Appendix E – Initial Form C-141**

##### **Appendix F – Terracon Standard of Care, Limitation, and Reliance**

**Frontier Field Services, LLC**

Elliot Fed 1 Steel Line 2 and Santo Nino Elliot Fed 1 to Fed 2

32.719488°, -104.009502°

NMOCD Reference # nAPP2303345440 &amp; nAPP2305332447

Terracon Project # KH237012



## Section 1 – Incident Information

The following table provides detailed information regarding the February 1, & 21, 2023, natural gas, and petroleum liquid release at the Elliot Fed 1 6" Steel Line 2 (Elliot Fed 2) and Santo Nino Elliot Fed 1 to Fed 2 (Santo Nino) sites in Eddy County, New Mexico:

Required Information	Site and Release information	
Responsible party	The pipeline is operated by Frontier Field Services LLC	
Local contact	Contact: Ms. Amber Groves	P: (575)-703-7992 E: <a href="mailto:agroves@durangomidstream.com">agroves@durangomidstream.com</a>
NMOCD Notification	Notice of the releases were provided to the NMOCD District 2 Artesia Office by Ms. Amber Groves on February 2, 2023, & February 21, 2023, respectfully. NMOCD Reference ID: nAPP2303345440 & nAPP2305332447	
Facility Description	Elliot Fed 2 and Santo Nino Elliot are in Eddy County, New Mexico. It is an area located within Unit G, Section 30, Township 18 South, Range 30 East, approximately 24.06 miles southeast of Artesia, New Mexico, and is located in predominantly developed oil and gas Right of Way (ROW) within Bureau of Land Management (BLM) owned native pastureland.	
Discovery of incident	<b>nAPP2303345440:</b> February 1, 2023, discovered during an annual flyover <b>nAPP2305332447:</b> February 21, 2023, discovered during remedial activities	
Discharge event	The natural gas pipeline leak was caused by corrosion of the steel line and liquid was discovered leaking to the surface during normal field inspections. The Site is illustrated in Exhibits 1 and 2 of Appendix A	
Type of discharge	The documented natural gas release occurred in an open right-of-way (ROW), BLM-owned, native pastureland area. Soils at the site are affected at the surface and beyond the depth of the pipeline.	
Quantity of spilled material	Total Fluids: 6 bbls Total Fluids:	Natural Gas: 164.12 Mcf - <b>Elliot Fed 2</b> Natural Gas: 164.12 Mcf - <b>Santo Nino</b>



**Frontier Field Services, LLC**

Elliot Fed 1 Steel Line 2 and Santo Nino Elliot Fed 1 to Fed 2

32.719488°, -104.009502°

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Terracon Project # KH237012



Required Information	Site and Release information
Site characteristics	Relatively flat with drainage following the natural ground surface; very gently sloping to the northwest.
Immediate corrective actions	The leaking pipeline was closed in at the nearest isolation valve, blown down, and clamped. A backhoe was utilized to excavate soils to discover the source of the release.

## Section 2 – General Site Characteristics

Physical Characteristic	Site Ranking Characteristics
<b>Groundwater</b> NMOSE POD Location Map – (Exhibit 6 in Appendix A)	<u>POD Number:</u> (CP-00626 POD1) <u>Depth to Groundwater:</u> 247 ft. bgs <u>Distance to Well:</u> 3.27 miles to the northwest <u>Date Drilled:</u> February 13, 1981 <u>Last Date Meter Reading:</u> August 12, 2019 <u>Groundwater Quality:</u> Groundwater quality at the site is predominately used for livestock production.
<b>Surface Water</b> NM Wetland Map – (Exhibit 7 in Appendix A)	Salt Lake (unnamed), approximately 5.24 miles to the southeast.
<b>100-Year Flood Plain</b>	This site is not located within the 100-year flood plain of the Pecos River.
<b>Soil Characteristics</b>	Soils at the site are mapped as Kermit-Berino Fine Sand series soils, 0 to 3 percent slopes, well-drained, 4 to 12 inches single-grained; loose; few fine roots; very porous; few dark organic stains; noncalcareous; neutral; gradual smooth boundary. (6 to 12 inches thick). The formation is categorized with a very high runoff classification.
<b>Karst Characterization</b>	Terracon evaluated data from the NMOCD Public FTP Site, Karst map designations in reference to the site location. The site appears to be within a low-level Karst risk area. Based on on-site

**Frontier Field Services, LLC**

Elliot Fed 1 Steel Line 2 and Santo Nino Elliot Fed 1 to Fed 2

32.719488°, -104.009502°

NMOCD Reference # nAPP2303345440 &amp; nAPP2305332447

Terracon Project # KH237012



Physical Characteristic	Site Ranking Characteristics
Cave Karst Public UCP Map – (Exhibit 8 in Appendix A)	observations within the extent of the release margins the potential for Karst formations in this specific area are of low potential. Restrictive features were not encountered from surface to 96 inches below grade surface (bgs) within the release margins. The full extent of release quantities and excavation activities did not extend greater than 96 inches bgs.

### Section 3 – Regulatory Framework and Response Action Levels

Oil and gas exploration and production facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). The NMOCD has issued the *Closure Criteria for Soils Impacted by a Release, on June 21, 2018, and Restoration, Reclamation, and Re-vegetation (19.15.29.13) NMAC – D (Reclamation of areas no longer in use)* as guidance documents for the remediation and reclamation of sites impacted by releases from oil and gas exploration and production activities. Sections detailed below the applicability of these guidance documents to the site-specific characteristics associated with the Elliot Fed 2 and Sant Nino.

#### Section 3.1 – Reclamation Levels (Surface to 4 ft. bgs)

The below Reclamation Limits for chlorides, TPH (GRO+DRO+MRO), BTEX (includes benzene, toluene, ethylbenzene, and xylenes), and benzene are defined within the New Mexico Administration Code (NMAC) *Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use)* for soils extending to 4 ft. bgs.:

Constituent	Remediation Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

**Frontier Field Services, LLC**

Elliot Fed 1 Steel Line 2 and Santo Nino Elliot Fed 1 to Fed 2

32.719488°, -104.009502°

NMOCD Reference # nAPP2303345440 &amp; nAPP2305332447

Terracon Project # KH237012

**Section 3.2 – Remediation Levels (> 4 ft. bgs)**

Based on the site-specific characteristics, the applicable NMOCD remediation levels for Total BTEX, chloride, and TPH within soils, exclusive of the Reclamation Zone (surface to 4 ft. bgs), are as follows:

Constituent	Remediation Limit
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

**Section 4 – Remediation Activities**

On February 27<sup>th</sup>, 28<sup>th</sup>, and March 2, 2023, Terracon mobilized to the site to meet Gandy Corporation (Gandy) personnel, who were to perform soil remediation activities. Areas exhibiting visual impact were excavated to a depth of approximately 7 to 8 feet bgs.

Approximately 800 cubic yards of soil were excavated and stockpiled atop a polyethylene liner pending waste characterization and disposal under an approved Form C-138. Excavation efforts ceased based on the results of removing visual impacts. Excavated materials were disposed of at Lea Land Landfill.

**Section 5 - Remediation Confirmation Assessment**

A total of 11 composite soil samples were collected from the side walls (SW) and the floor (FS), (N-SW01-02, S-SW01-02, E-SW01, W-SW01, and FS01 through FS05) were collected every 200 sq. ft, from the excavation, placed in the laboratory-provided sample containers, preserved with ice, and transported under a chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis of BTEX, TPH, and chlorides.

**Section 6 – Analytical Results**

Composite Soil samples collected from February 27<sup>th</sup>, 28<sup>th</sup>, and March 2, 2023, did not exhibit concentrations of BTEX or TPH (EPA Method 8015M) above laboratory sample detection limits (SDLs).

All the soil samples collected from the excavation area exhibited concentrations of chloride



**Frontier Field Services, LLC**

Elliot Fed 1 Steel Line 2 and Santo Nino Elliot Fed 1 to Fed 2

32.719488°, -104.009502°

NMOCD Reference # nAPP2303345440 & nAPP2305332447

Terracon Project # KH237012



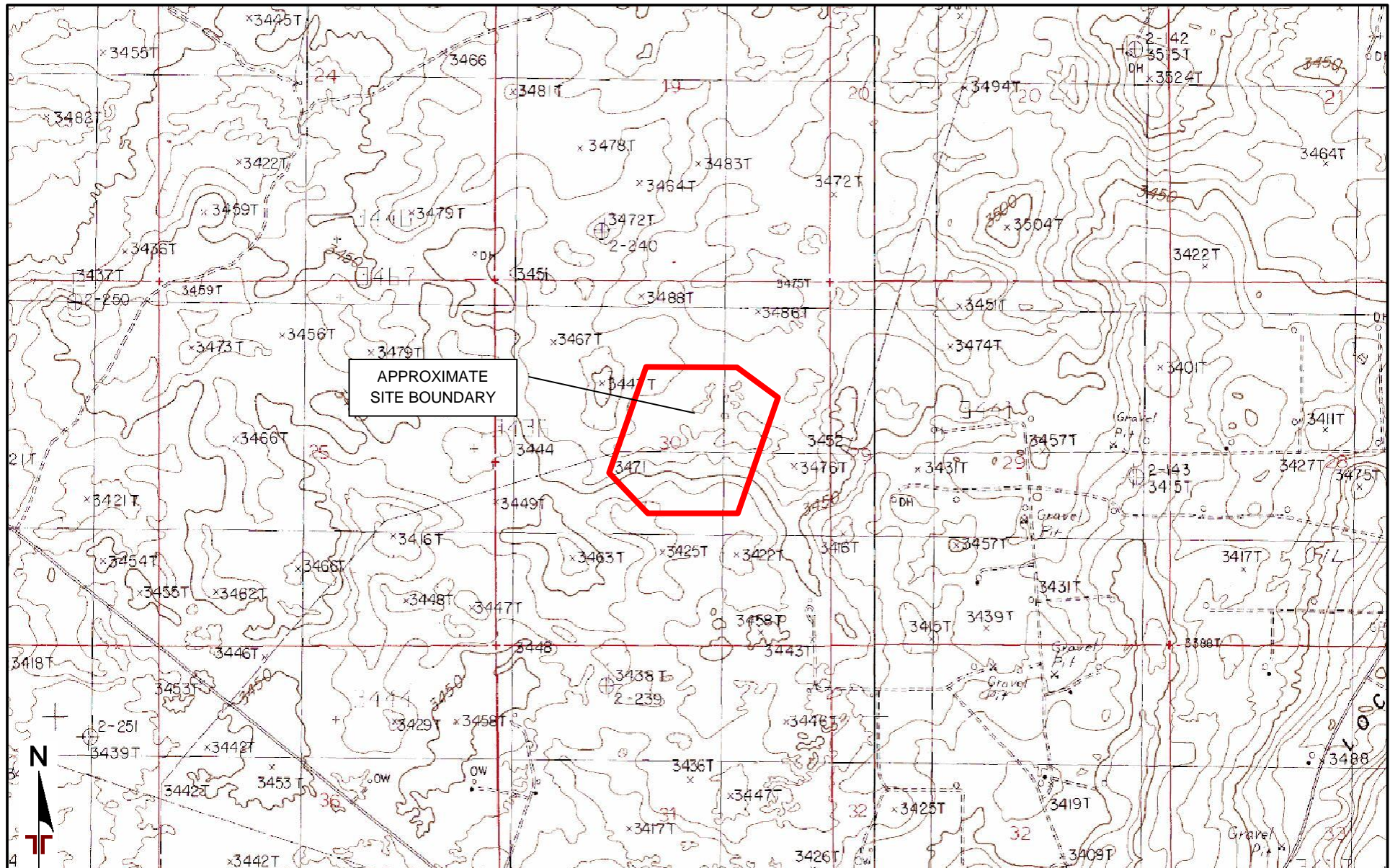
above laboratory SDLs and ranged from 32.0 mg/kg in W-SW01 (0-6 feet) to 240.0 mg/kg in FS02 (5-6 feet). Chloride concentrations for all confirmation samples were below the NMOCD RALs.

A summary of BTEX, chloride and TPH concentrations of all collected soil samples is attached as Table 1.

### **Section 7 – Conclusion and Closure Request**

In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Terracon along with Frontier Field Services respectfully requests closure of the incident nAPP230334544 and nAPP2305332447.

## **APPENDIX A – EXHIBITS**



Project Manager:  
Joe Guesnier

Drawn by:  
Becky Miller

Checked by:  
Travis Casey

Approved by:  
Joe Guesnier

Project No.  
E2135001

Scale:  
1"=2,000'

File Name:  
Topo

Date:  
03/09/23




4518 W. Pierce Street  
Carlsbad, NM 88220

### Exhibit 1 - TOPOGRAPHIC MAP

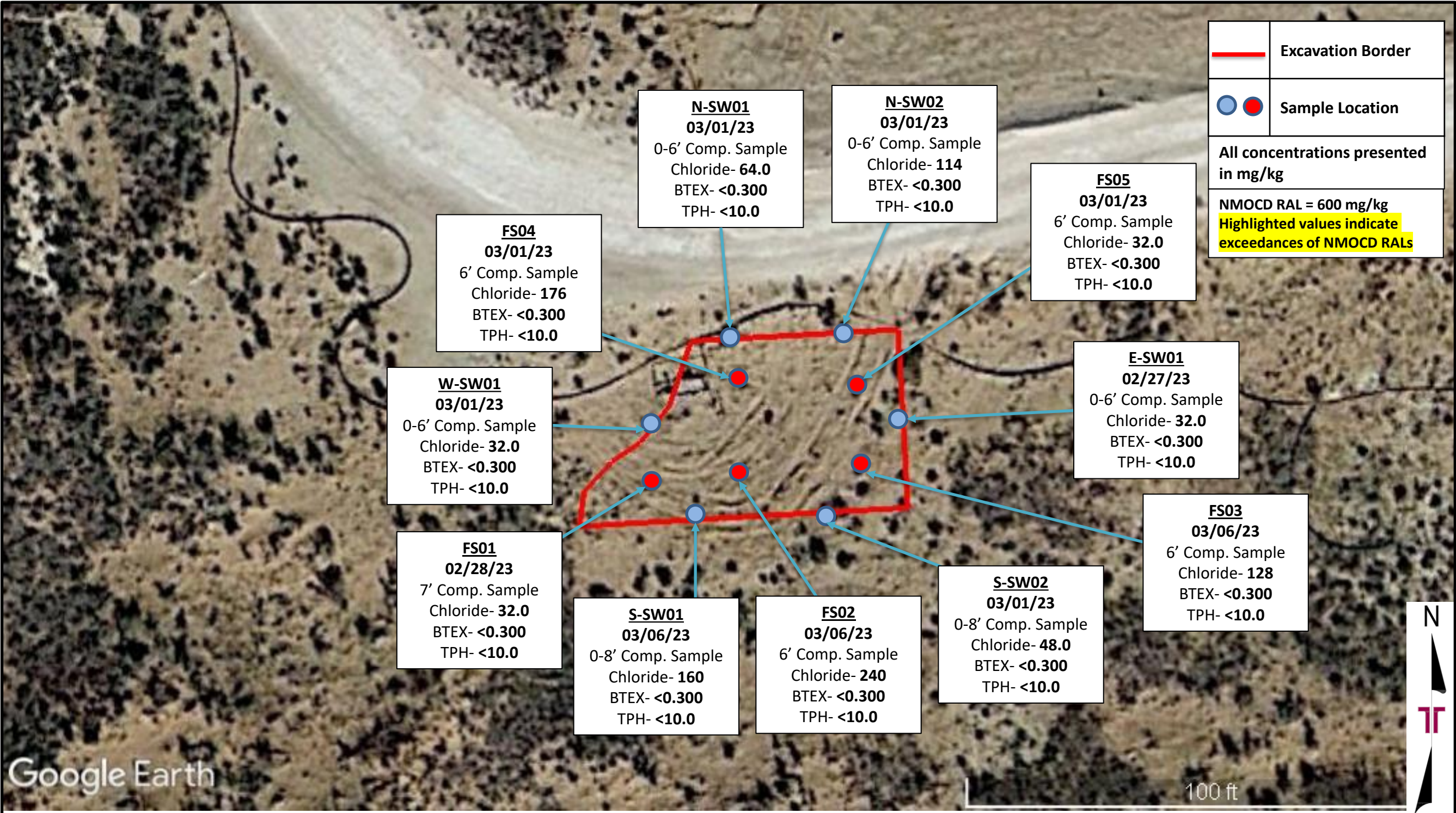
Elliot Fed 1 6" Steel 2  
32.719488, -104.009502  
Eddy County, New Mexico






Project No.	KH237012	Exhibit 2 – Site Map	
Scale:	As Shown	Elliot Fed 1 Steel Line 2	
Source:	Google Earth	32.719488°, -104.009502°	
Date:	03/09/2023	Eddy County, New Mexico	
 4518 W. Pierce St. Carlsbad, NM 88220 PH. (575)689-4020 FAX. (806) 797 0947			






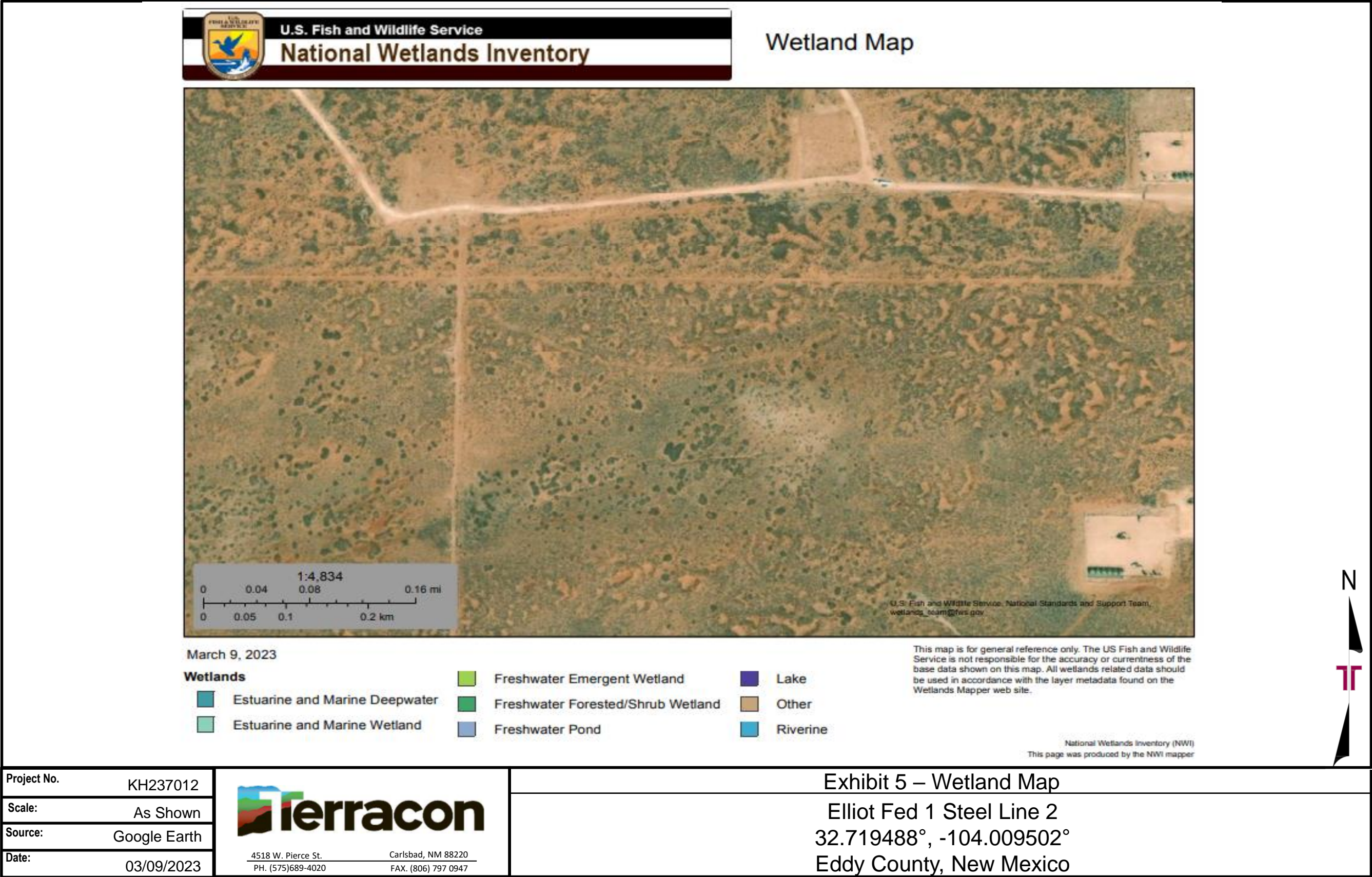
Project No.	KH227012	Exhibit 3 – Confirmation Sample Map Elliot Fed 1 Steel Line 2 32.719488°, -104.009502° Eddy County, New Mexico	
Scale:	As Shown		
Source:	Google Earth		
Date:	003/09/2021		
			
4518 W. Pierce St. PH. (575)689-4020		Carlsbad, NM 88220 FAX. (806) 797 0947	



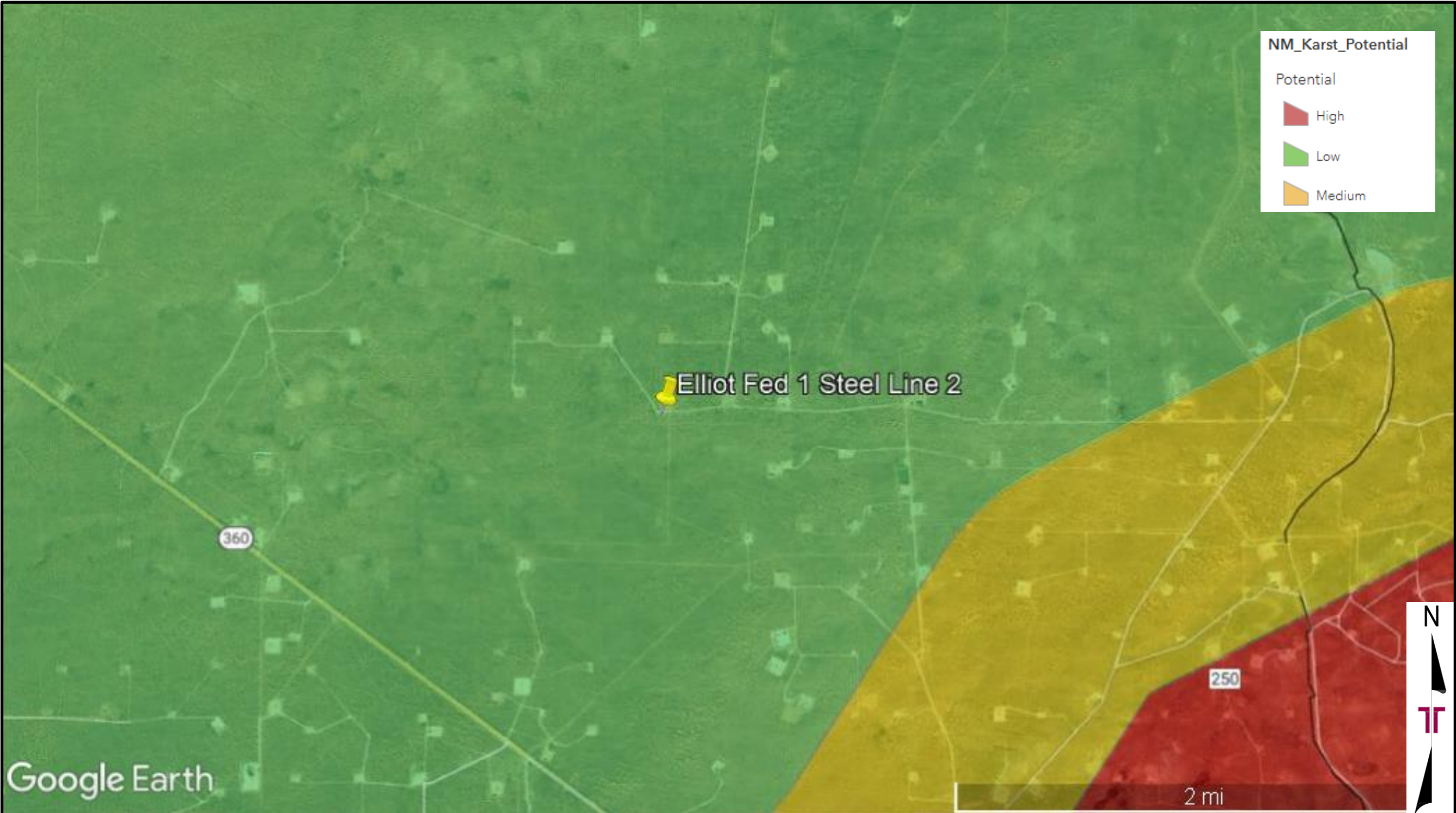



Project No.	KH237012	 <div>4518 W. Pierce St. Carlsbad, NM 88220 PH. (575)689-4020 FAX. (806) 797 0947</div>	Exhibit 4 – NMOSE POD Location Map	
Scale:	As Shown		Elliot Fed 1 Steel Line 2	
Source:	Google Earth		32.719488°, -104.009502°	
Date:	03/09/2023		Eddy County, New Mexico	









Project No.	KH237012	 <div>4518 W. Pierce St. Carlsbad, NM 88220 PH. (575)689-4020 FAX. (806) 797 0947</div>	Exhibit 6 – Cave Karst Public UPC Map	
Scale:	As Shown		Elliot Fed 1 Steel Line 2	
Source:	Google Earth		32.719488°, -104.009502°	
Date:	03/09/2023		Eddy County, New Mexico	

## **APPENDIX B – TABLES, PROCEDURES, AND FIGURES**

TABLE 1									
SOIL SAMPLE ANALYTICAL RESULTS - BTEX <sup>1</sup> , Chloride <sup>2</sup> , and TPH <sup>3</sup>									
Elliot Fed 1 6" Steel Line 2									
Terracon Project No. KH237012									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX  (mg/kg)	Chloride (mg/kg)	TPH (8015M)			
						(mg/kg)			
						GRO	DRO	EXT DRO	
Confirmation Samples (Off Pad)									
E-SW01	0-6'	Comp	02/27/23	Benzene -	<0.050	32.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
FS01	7'	Comp	02/28/23	Benzene -	<0.050	32.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
FS02	6'	Comp	03/06/23	Benzene -	<0.050	240	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
FS03	6'	Comp	03/06/23	Benzene -	<0.050	128	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
FS04	6'	Comp	03/01/23	Benzene -	<0.050	176	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
FS05	6'	Comp	03/01/23	Benzene -	<0.050	32.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
N-SW01	0-6'	Comp	03/01/23	Benzene -	<0.050	64.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
N-SW02	0-6'	Comp	03/01/23	Benzene -	<0.050	114	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
W-SW01	0-6'	Comp	03/01/23	Benzene -	<0.050	32.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
S-SW01	0-8'	Comp	03/06/23	Benzene -	<0.050	160	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
S-SW02	0-8'	Comp	03/06/23	Benzene -	<0.050	48.0	<10.0	<10.0	<10.0
				Total BTEX -	<0.300				
NMOCD Reclamation Standards <sup>4</sup> (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene -	10	600	100		
				Total BTEX -	50				
NMOCD Remediation and Delineation Standards <sup>5</sup> (Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)				Benzene -	10	600	100		
				Total BTEX -	50				

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL



## **APPENDIX C – PHOTOGRAPHIC LOG**

Elliot Fed 1 Steel Line 2 ■ Eddy County, New Mexico  
March 10, 2023 ■ Terracon Project No. KH237012

**Terracon**



**PHOTO 1:** View of North wall prior to Excavation



**PHOTO 2:** View of East wall prior to Excavation

Responsive ■ Resourceful ■ Reliable



Elliot Fed 1 Steel Line 2 ■ Eddy County, New Mexico  
March 10, 2023 ■ Terracon Project No. KH237012

**Terracon**

**PHOTO 3:** View of Floor prior to Excavation



**PHOTO 4:** View of North wall following Excavation

Responsive ■ Resourceful ■ Reliable



Elliot Fed 1 Steel Line 2 ■ Eddy County, New Mexico  
March 10, 2023 ■ Terracon Project No. KH237012

**Terracon**

**PHOTO 5:** View of South wall following Excavation



**PHOTO 6:** View of West end of Excavation

Responsive ■ Resourceful ■ Reliable



Elliot Fed 1 Steel Line 2 ■ Eddy County, New Mexico  
March 10, 2023 ■ Terracon Project No. KH237012

**Terracon**

**PHOTO 7:** View of Floor following Excavation



**PHOTO 8:** View of South wall following Excavation

Responsive ■ Resourceful ■ Reliable

## **APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY**



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

March 02, 2023

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: ELLIOT 2

Enclosed are the results of analyses for samples received by the laboratory on 02/27/23 15:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 02/27/2023  
 Reported: 03/02/2023  
 Project Name: ELLIOT 2  
 Project Number: KH237012  
 Project Location: DURANGO - EDDY

Sampling Date: 02/27/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Shalyn Rodriguez

**Sample ID: ESW 01 (H230909-01)**

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	03/01/2023	ND	1.99	99.5	2.00	10.7	
Toluene*	<0.050	0.050	03/01/2023	ND	1.97	98.3	2.00	9.73	
Ethylbenzene*	<0.050	0.050	03/01/2023	ND	1.97	98.4	2.00	10.0	
Total Xylenes*	<0.150	0.150	03/01/2023	ND	5.99	99.8	6.00	10.7	
Total BTEx	<0.300	0.300	03/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	32.0	16.0	03/01/2023	ND	400	100	400	3.92		

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	02/28/2023	ND	200	100	200	0.394	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	214	107	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

---

Cardinal Laboratories

\*=Accredited Analyte

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

---

Celey D. Keene, Lab Director/Quality Manager



**101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

---

March 06, 2023

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: ELLIOT 2

Enclosed are the results of analyses for samples received by the laboratory on 03/01/23 12:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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](http://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:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 03/01/2023  
 Reported: 03/06/2023  
 Project Name: ELLIOT 2  
 Project Number: KH237012  
 Project Location: DURANGO - EDDY

Sampling Date: 02/28/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS01 (H230946-01)**

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	03/03/2023	ND	2.10	105	2.00	0.101	
Toluene*	<0.050	0.050	03/03/2023	ND	2.08	104	2.00	0.128	
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	2.03	101	2.00	0.133	
Total Xylenes*	<0.150	0.150	03/03/2023	ND	6.20	103	6.00	0.989	
Total BTX	<0.300	0.300	03/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	32.0	16.0	03/02/2023	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	03/02/2023	ND	167	83.3	200	9.31	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	195	97.5	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 03/01/2023  
 Reported: 03/06/2023  
 Project Name: ELLIOT 2  
 Project Number: KH237012  
 Project Location: DURANGO - EDDY

Sampling Date: 03/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N - SW01 (H230946-02)**

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	03/03/2023	ND	2.10	105	2.00	0.101	
Toluene*	<0.050	0.050	03/03/2023	ND	2.08	104	2.00	0.128	
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	2.03	101	2.00	0.133	
Total Xylenes*	<0.150	0.150	03/03/2023	ND	6.20	103	6.00	0.989	
Total BTX	<0.300	0.300	03/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	64.0	16.0	03/02/2023	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	03/02/2023	ND	167	83.3	200	9.31	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	195	97.5	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 97.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 03/01/2023  
 Reported: 03/06/2023  
 Project Name: ELLIOT 2  
 Project Number: KH237012  
 Project Location: DURANGO - EDDY

Sampling Date: 03/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: N - SW02 (H230946-03)**

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	03/03/2023	ND	2.10	105	2.00	0.101		
Toluene*	<0.050	0.050	03/03/2023	ND	2.08	104	2.00	0.128		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	2.03	101	2.00	0.133		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	6.20	103	6.00	0.989		
Total BTX	<0.300	0.300	03/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/02/2023	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	03/02/2023	ND	167	83.3	200	9.31	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	195	97.5	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 135 % 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:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 03/01/2023  
 Reported: 03/06/2023  
 Project Name: ELLIOT 2  
 Project Number: KH237012  
 Project Location: DURANGO - EDDY

Sampling Date: 03/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS05 (H230946-04)**

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	03/03/2023	ND	2.10	105	2.00	0.101	
Toluene*	<0.050	0.050	03/03/2023	ND	2.08	104	2.00	0.128	
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	2.03	101	2.00	0.133	
Total Xylenes*	<0.150	0.150	03/03/2023	ND	6.20	103	6.00	0.989	
Total BTEx	<0.300	0.300	03/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	03/02/2023	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	03/02/2023	ND	167	83.3	200	9.31	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	195	97.5	200	9.62	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 101 % 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



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**Analytical Results For:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 03/01/2023  
 Reported: 03/06/2023  
 Project Name: ELLIOT 2  
 Project Number: KH237012  
 Project Location: DURANGO - EDDY

Sampling Date: 03/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: FS04 (H230946-05)**

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	03/03/2023	ND	2.10	105	2.00	0.101	
Toluene*	<0.050	0.050	03/03/2023	ND	2.08	104	2.00	0.128	
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	2.03	101	2.00	0.133	
Total Xylenes*	<0.150	0.150	03/03/2023	ND	6.20	103	6.00	0.989	
Total BTEx	<0.300	0.300	03/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	176	16.0	03/02/2023	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	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:**

TERRACON CONSULTANTS  
 JOSEPH GUESNIER  
 5827 50TH ST. SUITE 1  
 LUBBOCK TX, 79424  
 Fax To:

Received: 03/01/2023  
 Reported: 03/06/2023  
 Project Name: ELLIOT 2  
 Project Number: KH237012  
 Project Location: DURANGO - EDDY

Sampling Date: 03/01/2023  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Tamara Oldaker

**Sample ID: W - SW01 (H230946-06)**

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	03/03/2023	ND	2.10	105	2.00	0.101		
Toluene*	<0.050	0.050	03/03/2023	ND	2.08	104	2.00	0.128		
Ethylbenzene*	<0.050	0.050	03/03/2023	ND	2.03	101	2.00	0.133		
Total Xylenes*	<0.150	0.150	03/03/2023	ND	6.20	103	6.00	0.989		
Total BTEx	<0.300	0.300	03/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	32.0	16.0	03/02/2023	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	03/02/2023	ND	217	109	200	3.19	
DRO >C10-C28*	<10.0	10.0	03/02/2023	ND	215	107	200	5.35	
EXT DRO >C28-C36	<10.0	10.0	03/02/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 49.1-148

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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

101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

(575) 393-2326 FAX (575) 393-2416

BILL TO

ANALYSIS REQUEST

Company Name: Terracon

Project Manager: Joseph Guesnier

Address: 4518 W. Perice Street

City: Carlsbad

Phone #: 8065077057

Fax #:

State: NM Zip: 88220

P.O. #:

Company: Durango

Attn: Amber Groves

Address:

City:

State:

Zip:

Phone #:

Fax #:

Sample Name: Travis Casey

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H230946

Date	Time	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	DATE	TIME	SAMPLING				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE				OTHER :	ACID/BASE:	ICE / COOL	OTHER :	
1	FSO1	C	2	X						3/28	12:48	X	X	X	X	X
2	N - SW01	C	2	X						3/1	9:36	X	X	X	X	X
3	N - SW02	C	2	X						9:40	9:40	X	X	X	X	X
4	FSO5	C	2	X						10:05	10:05	X	X	X	X	X
5	FSO4	C	1	X						10:25	10:25	X	X	X	X	X
6	N - SW01	C	2	X						11:50	11:50	X	X	X	X	X

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Relinquished By:

Date: 3-1-23

Received By:

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address:

Relinquished By: Buckey Smith

Date: 3-1-23

Received By: [Signature]

REMARKS: joseph.guesnier@terracon.com; travis.casey@terracon.com; austin.worley@terracon.com; michael.adams@terracon.com

Delivered By: (Circle One)	Observed Temp.: °C 5.6	Corrected Temp.: °C 5.0	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) [Signature]	Turnaround Time: Standard Rush <input checked="" type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp.: °C	Corrected Temp.: °C
Sampler - UPS - Bus - Other:								





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---

March 13, 2023

JOSEPH GUESNIER

TERRACON CONSULTANTS

5827 50TH ST. SUITE 1

LUBBOCK, TX 79424

RE: ELLIOT #2

Enclosed are the results of analyses for samples received by the laboratory on 03/06/23 8:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

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

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

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

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK TX, 79424Project: ELLIOT #2  
Project Number: KH237012  
Project Manager: JOSEPH GUESNIER  
Fax To:Reported:  
13-Mar-23 09:06

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS 02	H231001-01	Soil	02-Mar-23 08:46	06-Mar-23 08:57
FS 03	H231001-02	Soil	02-Mar-23 08:50	06-Mar-23 08:57
S- SW 01	H231001-03	Soil	02-Mar-23 10:10	06-Mar-23 08:57
S- SW 02	H231001-04	Soil	02-Mar-23 10:15	06-Mar-23 08:57

03/13/23 - Client changed the project name (see COC). This is the revised report and will replace the one sent on 03/09/23.

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

Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK TX, 79424

Project: ELLIOT #2  
Project Number: KH237012  
Project Manager: JOSEPH GUESNIER  
Fax To:

Reported:  
13-Mar-23 09:06

**FS 02**  
**H231001-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>240</b>		16.0	mg/kg	4	3030803	AC	08-Mar-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3030631	JH/	08-Mar-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134 3030631 JH/ 08-Mar-23 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	

Surrogate: 1-Chlorooctane 85.0 % 48.2-134 3030624 MS 06-Mar-23 8015B

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148 3030624 MS 06-Mar-23 8015B

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**Analytical Results For:**

TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK TX, 79424

Project: ELLIOT #2  
Project Number: KH237012  
Project Manager: JOSEPH GUESNIER  
Fax To:

Reported:  
13-Mar-23 09:06

**FS 03**  
**H231001-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>128</b>		16.0	mg/kg	4	3030803	AC	08-Mar-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3030631	JH/	08-Mar-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	112 %	71.5-134	3030631	JH/	08-Mar-23	8021B	
---------------------------------------	-------	----------	---------	-----	-----------	-------	--

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0	10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	

Surrogate: 1-Chlorooctane	89.4 %	48.2-134	3030624	MS	06-Mar-23	8015B	
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Surrogate: 1-Chlorooctadecane	93.1 %	49.1-148	3030624	MS	06-Mar-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK TX, 79424

Project: ELLIOT #2  
Project Number: KH237012  
Project Manager: JOSEPH GUESNIER  
Fax To:

Reported:  
13-Mar-23 09:06

**S- SW 01**  
**H231001-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

<b>Chloride</b>	<b>160</b>		16.0	mg/kg	4	3030803	AC	08-Mar-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3030631	JH/	08-Mar-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			120 %		71.5-134	3030631	JH/	08-Mar-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			85.7 %		48.2-134	3030624	MS	06-Mar-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			89.5 %		49.1-148	3030624	MS	06-Mar-23	8015B	
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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:**

TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK TX, 79424

Project: ELLIOT #2  
Project Number: KH237012  
Project Manager: JOSEPH GUESNIER  
Fax To:

Reported:  
13-Mar-23 09:06

**S- SW 02**  
**H231001-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Inorganic Compounds**

Chloride	48.0		16.0	mg/kg	4	3030803	AC	08-Mar-23	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3030631	JH/	08-Mar-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3030631	JH/	08-Mar-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			122 %		71.5-134	3030631	JH/	08-Mar-23	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3030624	MS	06-Mar-23	8015B	

Surrogate: 1-Chlorooctane			80.2 %		48.2-134	3030624	MS	06-Mar-23	8015B	
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Surrogate: 1-Chlorooctadecane			84.4 %		49.1-148	3030624	MS	06-Mar-23	8015B	
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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:**

TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK TX, 79424

Project: ELLIOT #2  
Project Number: KH237012  
Project Manager: JOSEPH GUESNIER  
Fax To:

Reported:  
13-Mar-23 09:06

**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3030803 - 1:4 DI Water</b>									
<b>Blank (3030803-BLK1)</b>				Prepared & Analyzed: 08-Mar-23					
Chloride	ND	16.0	mg/kg						
<b>LCS (3030803-BS1)</b>				Prepared & Analyzed: 08-Mar-23					
Chloride	464	16.0	mg/kg	400		116	80-120		
<b>LCS Dup (3030803-BSD1)</b>				Prepared & Analyzed: 08-Mar-23					
Chloride	448	16.0	mg/kg	400		112	80-120	3.51	20

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK TX, 79424

Project: ELLIOT #2  
Project Number: KH237012  
Project Manager: JOSEPH GUESNIER  
Fax To:

Reported:  
13-Mar-23 09:06

**Volatile Organic Compounds by EPA Method 8021 - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3030631 - Volatiles****Blank (3030631-BLK1)**

Prepared: 06-Mar-23 Analyzed: 08-Mar-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0614		mg/kg	0.0500		123	71.5-134			

**LCS (3030631-BS1)**

Prepared: 06-Mar-23 Analyzed: 08-Mar-23

Benzene	2.08	0.050	mg/kg	2.00		104	81.4-118			
Toluene	2.07	0.050	mg/kg	2.00		103	88.7-121			
Ethylbenzene	2.11	0.050	mg/kg	2.00		105	86.1-120			
m,p-Xylene	4.50	0.100	mg/kg	4.00		112	88.2-124			
o-Xylene	2.10	0.050	mg/kg	2.00		105	84.9-118			
Total Xylenes	6.60	0.150	mg/kg	6.00		110	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0610		mg/kg	0.0500		122	71.5-134			

**LCS Dup (3030631-BSD1)**

Prepared: 06-Mar-23 Analyzed: 08-Mar-23

Benzene	2.14	0.050	mg/kg	2.00		107	81.4-118	2.63	15.8	
Toluene	2.14	0.050	mg/kg	2.00		107	88.7-121	3.17	15.9	
Ethylbenzene	2.17	0.050	mg/kg	2.00		108	86.1-120	2.80	16	
m,p-Xylene	4.63	0.100	mg/kg	4.00		116	88.2-124	2.96	16.2	
o-Xylene	2.19	0.050	mg/kg	2.00		110	84.9-118	4.17	16.7	
Total Xylenes	6.83	0.150	mg/kg	6.00		114	87.3-122	3.35	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0612		mg/kg	0.0500		122	71.5-134			

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**Analytical Results For:**

TERRACON CONSULTANTS  
5827 50TH ST. SUITE 1  
LUBBOCK TX, 79424

Project: ELLIOT #2  
Project Number: KH237012  
Project Manager: JOSEPH GUESNIER  
Fax To:

Reported:  
13-Mar-23 09:06

**Petroleum Hydrocarbons by GC FID - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3030624 - General Prep - Organics****Blank (3030624-BLK1)**

Prepared &amp; Analyzed: 06-Mar-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.5		mg/kg	50.0		96.9	48.2-134			
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.3	49.1-148			

**LCS (3030624-BS1)**

Prepared &amp; Analyzed: 06-Mar-23

GRO C6-C10	188	10.0	mg/kg	200		94.2	78.5-124			
DRO >C10-C28	190	10.0	mg/kg	200		95.2	72.5-126			
Total TPH C6-C28	379	10.0	mg/kg	400		94.7	77.6-123			
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	48.2-134			
Surrogate: 1-Chlorooctadecane	55.4		mg/kg	50.0		111	49.1-148			

**LCS Dup (3030624-BSD1)**

Prepared &amp; Analyzed: 06-Mar-23

GRO C6-C10	174	10.0	mg/kg	200		86.8	78.5-124	8.17	17.7	
DRO >C10-C28	173	10.0	mg/kg	200		86.5	72.5-126	9.61	21	
Total TPH C6-C28	346	10.0	mg/kg	400		86.6	77.6-123	8.89	18.5	
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.7	48.2-134			
Surrogate: 1-Chlorooctadecane	51.1		mg/kg	50.0		102	49.1-148			

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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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Celey D. Keene, Lab Director/Quality Manager



**101 East Marland, Hobbs, NM 88240**  
**(575) 393-2326 FAX (575) 393-2476**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

## **APPENDIX E – INITIAL C-141**



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nAPP2305332447
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Frontier Field Services, LLC	OGRID 221115
Contact Name Amber Groves	Contact Telephone 575-703-7992
Contact email <a href="mailto:agroves@durangomidstream.com">agroves@durangomidstream.com</a>	Incident # (assigned by OCD)
Contact mailing address 47 Conoco Rd, Maljamar NM 88264	

### Location of Release Source

Latitude 32.7195315 Longitude -104.0095510  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Santo Nino Elliot Fed 1 to Fed 2	Site Type Pipeline
Date Release Discovered 2/21/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	30	18S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 164.12	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

External & internal corrosion. Underground pipeline with soil impact.

## Oil Conservation Division

Incident ID	nAPP2305332447
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?

**Initial Response**

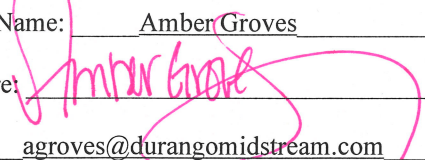
*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: Amber Groves Title: Senior Environmental Specialist  
Signature:  Date: 2/22/2023  
email: agroves@durangomidstream.com Telephone: (575)703-7992

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



## Gas Volume Release Report

Gas Release Volume Calculator		
Date:	2/21/2023	
Site or Line Name:	MAL-Santo Nino Elliot Fed1 to Fed2 6" Steel Line LP	
Area of Hole in Pipe:	0.25	square inches
Absolute Pressure:	83.5	psia - absolute pressure (psia = psig gauge pressure + 14.7)
Duration of Release:	60.00	minutes
Actual Temperature:	44.2	Degrees F
Representative Gas Analysis	Please attach or email a representative gas analysis	

Constants		
Temperature at standard conditions:	60	Deg. F
Pressure at standard conditions:	14.7	PSIA
Volume of Gas - ACF	28.01	MACF
Volume of Gas - SCF	164.12	MSCF

Notes
Entered by user
Calculated Value
Constant



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nAPP2303345440
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party Frontier Field Services, LLC	OGRID 221115
Contact Name Amber Groves	Contact Telephone 575-703-7992
Contact email <a href="mailto:agroves@durangomidstream.com">agroves@durangomidstream.com</a>	Incident # (assigned by OCD)
Contact mailing address 47 Conoco Rd, Maljamar NM 88264	

### Location of Release Source

Latitude 32.719488 Longitude -104.009502  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Elliot Fed 1 6" Steel Line 2	Site Type Pipeline
Date Release Discovered 2/1/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
G	30	18S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 6	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 164.12	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

External & internal corrosion. Underground pipeline with soil impact.

Incident ID	nAPP2303345446
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?

☐ Yes ☒ No

If YES, for what reason(s) does the responsible party consider this a major release?

### 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.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: Amber Groves Title: Senior Environmental Specialist

Signature:  Date: 2/2/2023

email: agroves@durangomidstream.com Telephone: (575)703-7992

#### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



## Gas Volume Release Report

Gas Release Volume Calculator		
Date:	2/1/2023	
Site or Line Name:	MAL-Elliot Fed1 to Fed2 6" Steel Line LP 2	
Area of Hole in Pipe:	0.25	square inches
Absolute Pressure:	83.5	psia - absolute pressure (psia = psig gauge pressure + 14.7)
Duration of Release:	60.00	minutes
Actual Temperature:	44.2	Degrees F
Representative Gas Analysis	Please attach or email a representative gas analysis	
Constants		
Temperature at standard conditions:	60	Deg. F
Pressure at standard conditions:	14.7	PSIA
Volume of Gas - ACF	28.01	MACF
Volume of Gas - SCF	164.12	MSCF
Notes		
Entered by user		
Calculated Value		
Constant		





## Liquid Volume Release Report

Liquid Release Volume Calculator							
Date:	2/1/2023						
Site or Line Name:	MAL-Elliot Fed1 to Fed2 6" Steel Line LP 2						
Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15				0	0.00	Clay
Sandy Clay	0.12				0	0.00	Sandy Clay
Silt	0.16				0	0.00	Silt
Fine Sand	0.16				0	0.00	Fine Sand
Medium Sand	0.25	40	16.9	0.166	112.216	5.00	Medium Sand
Coarse Sand	0.26				0	0.00	Coarse Sand
Gravelly Sand	0.26				0	0.00	Gravelly Sand
Fine Gravel	0.26				0	0.00	Fine Gravel
Medium Gravel	0.20				0	0.00	Medium Gravel
Coarse Gravel	0.18				0	0.00	Coarse Gravel
Sandstone	0.25				0	0.00	Sandstone
Siltstone	0.18				0	0.00	Siltstone
Limestone	0.13				0	0.00	Limestone
Basalt	0.19				0	0.00	Basalt
Standing Liquids	X	15	4.5	0.083	5.6025	1.00	Standing Liquids

Choose the one prevailing ground type for estimating spill volumes at a single location. Standing liquids are figured separately using the green cell.

Note that the depth should be measured in feet and tenths of feet (1 inch = .083)

Cubic Feet = L x W x D

Estimated Barrels = ((Cubic Feet x Porosity) / 5.61)

## **APPENDIX F – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE**

### **Standard of Care**

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, Durango Midstream LLC, as reflected in our proposal (PKH237012).

### **Additional Scope Limitations**

The development of this Amended RAP is based upon information provided by the Client and Terracon's remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by the Client. The data, interpretations, findings, and recommendations are based solely upon reformation executed within the scope of these services.

### **Reliance**

This report has been prepared for the exclusive use of Durango Midstream LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Durango Midstream LLC and Terracon. Any unauthorized distribution or reuse is at Durango Midstream LLC sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Durango Midstream LLC and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Durango Midstream LLC and all relying parties unless otherwise agreed in writing.

**District I**  
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Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
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Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 198135

**CONDITIONS**

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 198135
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2305332447 SANTO NINO ELLIOT FED 1 TO FED 2 6" STEEL LINE, thank you. This closure is approved.	7/28/2023