

Incident ID	nAPP2303344256
District RP	
Facility ID	
Application ID	

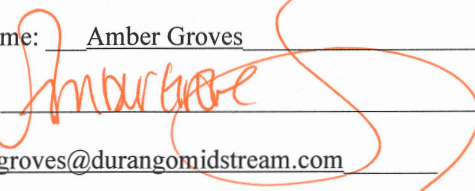
Closure

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 (electronic submittals in .pdf format are preferred) 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.

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

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.

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: 03/16/2023

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: 7/26/2023
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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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 not 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.

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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

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Remediation Plan

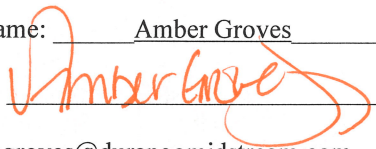
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ 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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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: 03/16/2023

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

Signature: _____ Date: _____

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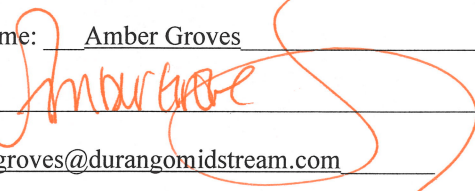
Closure

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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: 03/16/2023

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Frontier Field Services, LLC

Elliot Fed 1 6" Steel Line 1

32.719606°, -104.008138°

NMOCD Reference # nAPP2303344256

Terracon Project # KH237011



Attn: New Mexico Oil Conservation Division

1220 South St. Francis Drive

Santa Fe, NM 87505

RE: Release Investigation, and Closure Report

Elliot Fed 1 6" Steel Line 1

Unit G, Section 30, Township 18 South, Range 30 East

32.7109606°, -104.008138°

Eddy County, New Mexico

Terracon Project No. KH23011

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 were taken as the result of a natural gas release from a suspected corroded lateral line. The below sections detail Terracon's assessment and remediation actions in response to the noted release.

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) Stockpiles were placed on plastic and bermed around the edges to reduce loss.
- 8) Confirmation samples within excavation boundaries were collected every 200 sq. ft.
- 9) Remedial activities were terminated when confirmation sample concentrations did not exhibit above the NMOCD RALs.

Explore with us

Frontier Field Services, LLC
Elliot Fed 1 6" Steel Line 1
32.719606°, -104.008138°
NMOCD Reference # nAPP2303344256
Terracon Project # KH237011




Anticipated Actions

-
- 1) Following the completion of remedial activities all areas of the excavation activities are being backfilled and 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.


Travis Casey
Senior Staff Scientist
Carlsbad


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 Location Map
- Exhibit 3 – Site Sample Map
- Exhibit 4 – NMOSE POD Location Map
- Exhibit 5 – Designated Wetland Area 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 6" Steel Line 1

32.719606°, -104.008138°

NMOCD Reference # nAPP2303344256

Terracon Project # KH237011

**Section 1 – Incident Information**

The following table provides detailed information regarding the February 1, 2023, natural gas and petroleum liquid release at the Elliot Fed 1 6" Steel Line 1 (Elliot Fed 1) site 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: agroves@durangomidstream.com
NMOCD Notification	Notice of the release was provided to the NMOCD District 2 Artesia Office by Ms. Amber Groves on February 2, 2023. NMOCD Reference ID: nAPP2303344256	
Facility Description	Elliot Fed 1 is 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. The site is predominantly developed oil and gas Right of Way (ROW) surrounded by native pastureland owned by the Bureau of Land Management (BLM).	
Time of incident	February 1, 2023, discovered during daily operations	
Discharge event	The natural gas pipeline leak was caused by corrosion of the steel line leaking to the surface during the annual pipeline flyover. 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 surrounding the pipeline.	
Quantity of spilled material	Total Fluids: 0 bbls	Natural Gas: 164.12 Mcf
Site characteristics	Relatively flat with drainage following the natural ground surface; very gently sloping to the northwest.	

Frontier Field Services, LLC

Elliot Fed 1 6" Steel Line 1

32.719606°, -104.008138°

NMOCD Reference # nAPP2303344256

Terracon Project # KH237011



Required Information	Site and Release information
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
Groundwater 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> 3.67 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.
Surface Water NM Wetland Map – (Exhibit 7 in Appendix A)	Salt Lake (unnamed), approximately 5.14 miles to the southeast.
100-Year Flood Plain	This site is located outside of the 100-year flood plain of the Pecos River.
Soil Characteristics	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.
Karst Characterization	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 observations within the extent of the release margins the

Frontier Field Services, LLC

Elliot Fed 1 6" Steel Line 1

32.719606°, -104.008138°

NMOCD Reference # nAPP2303344256

Terracon Project # KH237011



Physical Characteristic	Site Ranking Characteristics
Cave Karst Public UCP Map – (Exhibit 8 in Appendix A)	potential for Karst formations in this specific area are of low potential. Restrictive features were not encountered from surface to 168 inches below grade surface (bgs) within the release margins. The full extent of release quantities and excavation activities did not extend greater than 168 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 1.

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 6" Steel Line 1

32.719606°, -104.008138°

NMOCD Reference # nAPP2303344256

Terracon Project # KH237011

**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 27th, 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 4 to 6 feet bgs.

Approximately 350 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 5 composite soil side wall samples (SW) and floor samples (FS) (N-SW01, S-SW01, E-SW01, W-SW01, and FS-01) were collected from the excavation over 200 sq. ft., placed in the laboratory-provided sample containers, preserved with ice, and transported under 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 27th, 2023, did not exhibit concentrations of BTEX or TPH (EPA Method 8015M) above laboratory sample detection limits (SDLs).

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

Frontier Field Services, LLC

Elliot Fed 1 6" Steel Line 1

32.719606°, -104.008138°

NMOCD Reference # nAPP2303344256

Terracon Project # KH237011



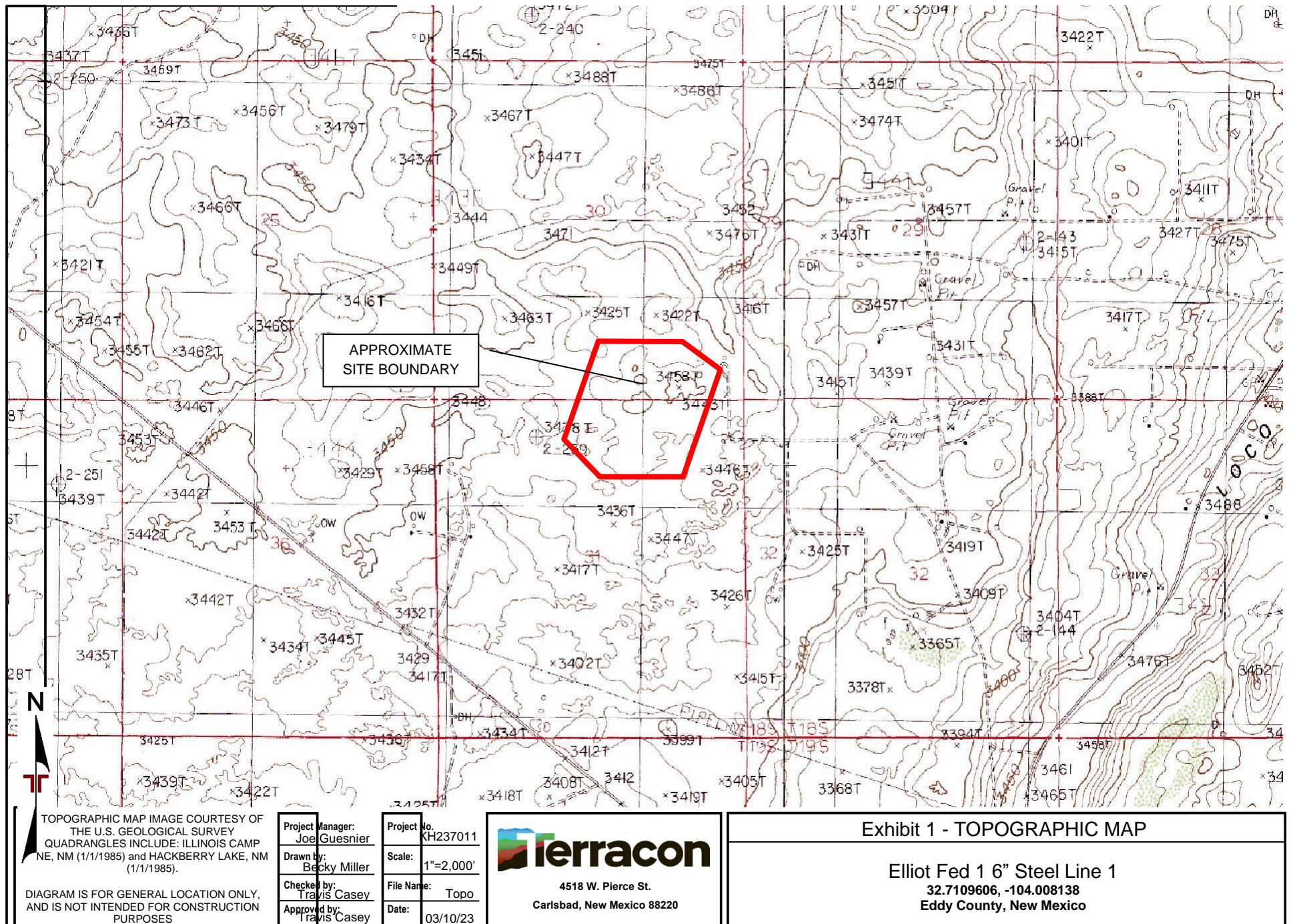
above laboratory SDLs and ranged from 16.0 mg/kg in W-SW01 (0-6 feet) to 64.0 mg/kg in N-SW01 (0-6 feet). The detected chloride concentrations are below applicable NMOCD RALs.

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


Section 7 – Conclusion and Closure Request

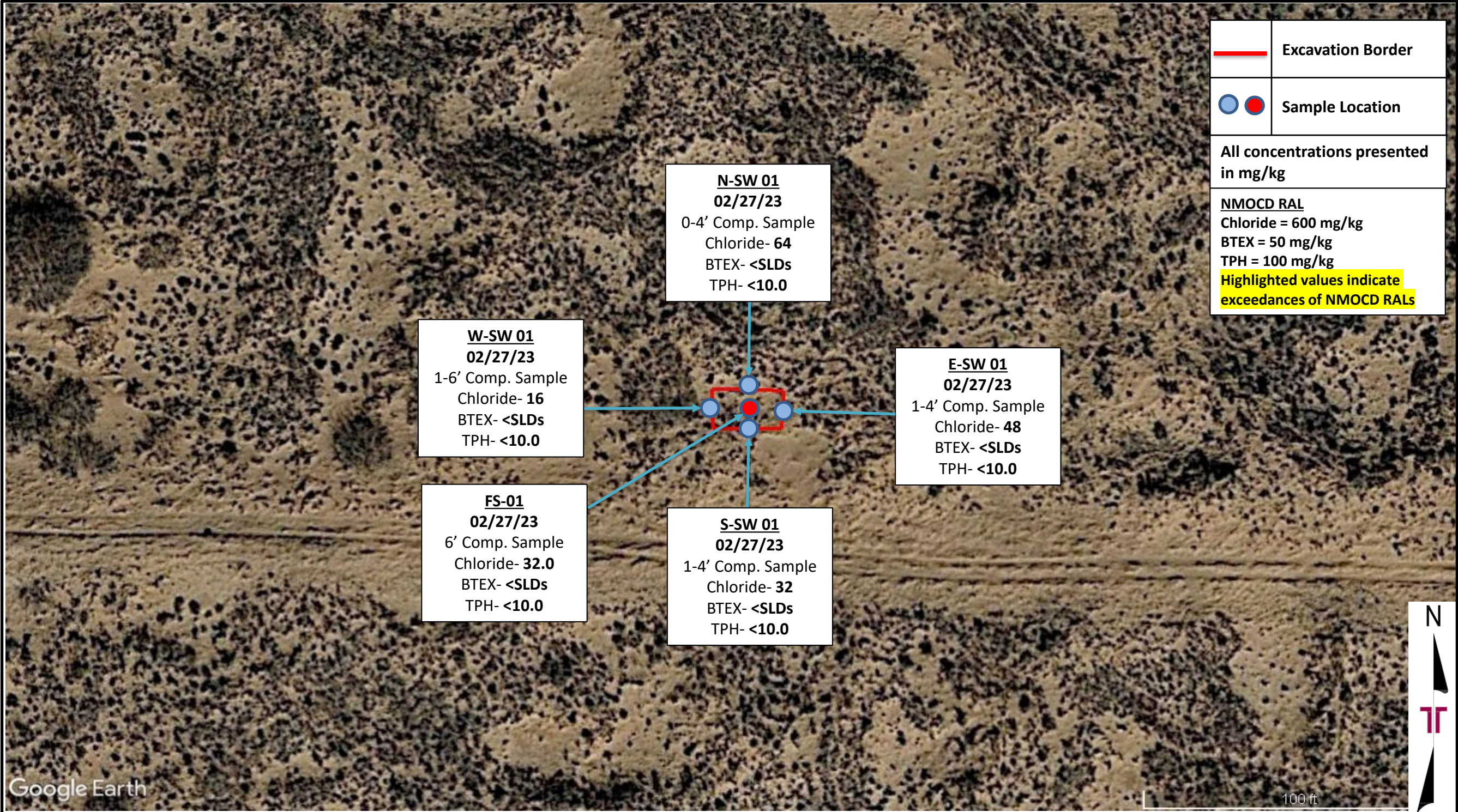
In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Terracon along with Frontier Field Services respectfully requests closure of the incident nAPP2303344256.


APPENDIX A – EXHIBITS






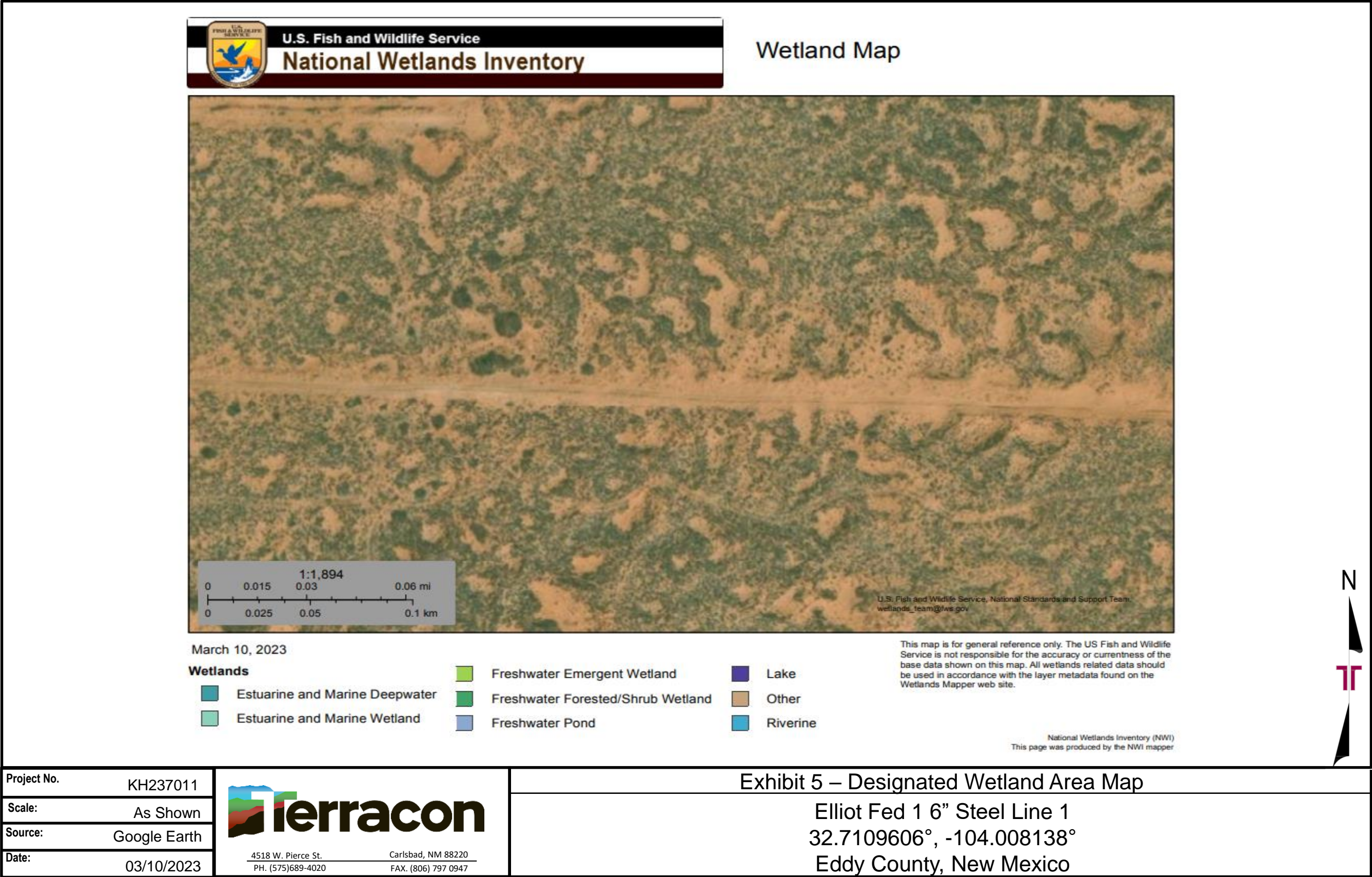
Project No.	KH237011	Exhibit 2 – Site Location Map	
Scale:	As Shown	Elliot Fed 1 6” Steel Line 1	
Source:	Google Earth	32.7109606°, -104.008138°	
Date:	03/10/2023	Eddy County, New Mexico	
			
4518 W. Pierce St. PH. (575)689-4020		Carlsbad, NM 88220 FAX. (806) 797 0947	

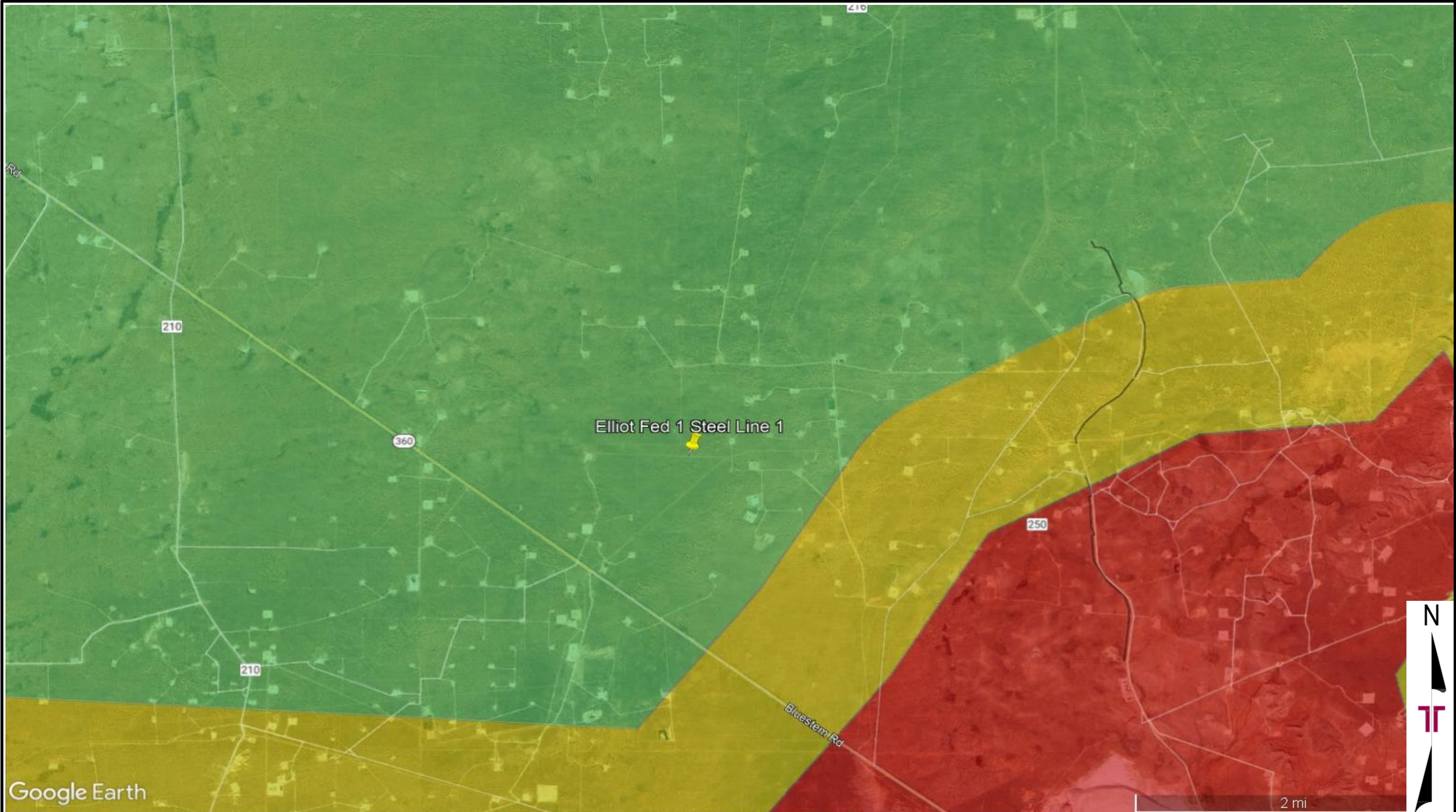



Project No.	KH227011	 4518 W. Pierce St. PH. (575)689-4020 Carlsbad, NM 88220 FAX. (806) 797 0947	Exhibit 3 – Site Sample Map
Scale:	As Shown		Elliot Fed 1 6" Steel Line 1
Source:	Google Earth		32.7109606°, -104.008138°
Date:	003/09/2021		Eddy County, New Mexico



Project No.	KH237011	Exhibit 4 – NMOSE POD Location Map	
Scale:	As Shown	Elliot Fed 1 6" Steel Line 1 32.7109606°, -104.008138° Eddy County, New Mexico	
Source:	Google Earth		
Date:	03/10/2023		
			
4518 W. Pierce St. PH. (575)689-4020		Carlsbad, NM 88220 FAX. (806) 797 0947	





Project No. KH237011		Exhibit 6 – Cave Karst Public UPC Map Elliot Fed 1 6” Steel Line 1 32.7109606°, -104.008138° Eddy County, New Mexico	
Scale: As Shown			
Source: Google Earth			
Date: 03/10/2023			
			
4518 W. Pierce St. PH. (575)689-4020		Carlsbad, NM 88220 FAX. (806) 797 0947	

APPENDIX B – TABLES, PROCEDURES, AND FIGURES

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³									
Elliott 1									
Terracon Project No. KH237011									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Excavated/In-Situ	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)		
							GRO	DRO	EXT DRO
Confirmation Samples (Off Pad)									
FS-01	6'	Comp	Excavated	02/27/23	Benzene - <0.050 Total BTEX - <0.300	32.0	<10.0	<10.0	<10.0
E-SW 01	0-6'	Comp	In-Situ	02/27/23	Benzene - <0.050 Total BTEX - <0.300	48	<10.0	<10.0	<10.0
N-SW 01	0-6'	Comp	In-Situ	02/27/23	Benzene - <0.050 Total BTEX - <0.300	64	<10.0	<10.0	<10.0
S-SW 01	0-6'	Comp	In-Situ	02/27/23	Benzene - <0.050 Total BTEX - <0.300	32	<10.0	<10.0	<10.0
W-SW 01	0-6'	Comp	In-Situ	02/27/23	Benzene - <0.050 Total BTEX - <0.300	16	<10.0	<10.0	<10.0
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)					Benzene - 10 Total BTEX - 50	600	100		
NMOCD Remediation and Delineation Standards ⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)					Benzene - 10 Total BTEX - 50	600	100		

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 1 ■ Eddy County, New Mexico
March 14, 2023 ■ Terracon Project No. KH237011



PHOTO 1: View of the area prior to excavation.

Responsive ■ Resourceful ■ Reliable

Elliot 1 ■ Eddy County, New Mexico
March 14, 2023 ■ Terracon Project No. KH237011



Terracon
Elliot 1
Pre excavation 2
02.24.2023 10:17 AM
32.71958, -104.00807 (±7ft)
Altitude: 3408ft



PHOTO 2: View of the area prior to excavation.

Responsive ■ Resourceful ■ Reliable

Elliot 1 ■ Eddy County, New Mexico
March 14, 2023 ■ Terracon Project No. KH237011



Terracon
Elliot 1
West wall excavation complete
02.24.2023 12:24 PM
32.71962, -104.00807 (±9ft)
Altitude: 3429ft



PHOTO 3: View of the area during excavation.

Responsive ■ Resourceful ■ Reliable

Elliot 1 ■ Eddy County, New Mexico
March 14, 2023 ■ Terracon Project No. KH237011



PHOTO 4: View of the area during post-excavation.

Responsive ■ Resourceful ■ Reliable

Elliot 1 ■ Eddy County, New Mexico
March 14, 2023 ■ Terracon Project No. KH237011



Terracon
Elliot 1
North wall excavation complete
02.24.2023 12:24 PM
32.71962, -104.00806 (±10ft)
Altitude: 3406ft

PHOTO 5: View of area post excavation from the north.

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 1

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.

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: 02/27/2023
 Reported: 03/02/2023
 Project Name: ELLIOT 1
 Project Number: KH237011
 Project Location: EDDY

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

Sample ID: FS 01 (H230908-01)

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	03/01/2023	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 BTX	<0.300	0.300	03/01/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	261	131	200	18.4	
DRO >C10-C28*	<10.0	10.0	02/28/2023	ND	245	122	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	02/28/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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: 02/27/2023
 Reported: 03/02/2023
 Project Name: ELLIOT 1
 Project Number: KH237011
 Project Location: EDDY

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

Sample ID: NSW 01 (H230908-02)

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	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) 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	64.0	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	03/01/2023	ND	261	131	200	18.4	
DRO >C10-C28*	<10.0	10.0	03/01/2023	ND	245	122	200	19.2	
EXT DRO >C28-C36	<10.0	10.0	03/01/2023	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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: 02/27/2023
 Reported: 03/02/2023
 Project Name: ELLIOT 1
 Project Number: KH237011
 Project Location: EDDY

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

Sample ID: SSW 01 (H230908-03)

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	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) 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	03/01/2023	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 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 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:

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 1
 Project Number: KH237011
 Project Location: EDDY

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

Sample ID: ESW 01 (H230908-04)

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	03/01/2023	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) 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	48.0	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 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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:

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 1
 Project Number: KH237011
 Project Location: EDDY

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

Sample ID: WSW 01 (H230908-05)

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	03/01/2023	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) 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	16.0	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 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
A-01	GRO blank spike failed high. Result deemed acceptable because all samples were ND for GRO.
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**

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	nAPP2303344256
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 agroves@durangomidstream.com	Incident # (assigned by OCD)
Contact mailing address 47 Conoco Rd, Maljamar NM 88264	

Location of Release Source

Latitude 32.719606 Longitude -104.008138
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Elliot Fed 1 6" Steel Line 1	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 type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<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.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2303344256
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

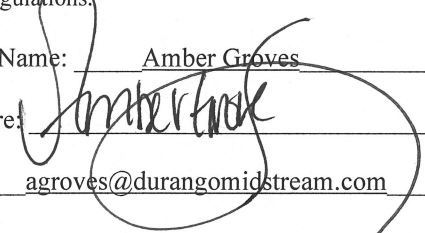
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

- ☒ 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: 2/2/2023
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 1	
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		

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 (PKH237011).

Additional Scope Limitations

The development of this Amended RAP is based on 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
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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 197701

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 197701
	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 #NAPP2303344256 ELLIOT FED 1 6" STEEL LINE 1, thank you. This closure is approved.	7/26/2023