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Page 6 Oil Conservation Division

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Incident ID	nAPP2304840170	J
District RP		
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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 NM	MAC
Photographs of the remediated site prior to backfill or photos of the must be notified 2 days prior to liner inspection)	e liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC Dis	trict office must be notified 2 days prior to final sampling)
□ Description of remediation activities	
Signature: Date	ase notifications and perform corrective actions for releases which 141 report by the OCD does not relieve the operator of liability te contamination that pose a threat to groundwater, surface water, 41 report does not relieve the operator of responsibility for. The responsible party acknowledges they must substantially ons that existed prior to the release or their final land use in
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Closure approval by the OCD does not relieve the responsible party of lial remediate contamination that poses a threat to groundwater, surface water, party of compliance with any other federal, state, or local laws and/or reg	human health, or the environment nor does not relieve the responsible
Closure Approved by: Robert Hamlet	Date:7/28/2023
Printed Name: Robert Hamlet	Title: _Environmental Specialist - Advanced

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Incident ID	nAPP2302727428	J
District RP		
Facility ID		
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?	undetermined (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ 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)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ 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?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site.	✓ Yes
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and verteen contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil

haracterization Report Checklist: Each of the following items must be included in the	e report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation	on 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	al 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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Incident ID nAPP2302727428age 3 of 56
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Facility ID
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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: Sr. Environmental Specialist	
Signature:	
email: agroves@durangomidstream.com Telephone: (575)703-7992	
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Page 5 Oil Conservation Division

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Incident ID	nAPP230272742Rage 4 of	3
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Facility ID		
Application ID		

Remediation 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.		
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: Sr. Environmental Specialist Date: 3/15/2023 Telephone: (575)703-7992		
OCD Only Received by: Date:		
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Signature: Date:		

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Page 6	Oil Conservation Division

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Incident ID	nAPP2302727428 Page 5 of 5
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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 ite	ems 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 must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
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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Signature:	Date: 3/15/2023
email: <u>agroves@durangomidstream.com</u> Tele	ephone: _575-703-7992
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	of liability should their operations have failed to adequately investigate and later, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by:	Date:
Printed Name:	Title:

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Incident ID	nAPP2304840176 6 of	J
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?	undetermined (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ 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)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ 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?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	Yes No	
Are the lateral extents of the release within 300 feet of a wetland?		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	Yes □ 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 mon	itoring 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 rel	ease
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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Incident ID nAPP2304840170 nAPP2304840170
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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
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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: Sr. Environmental Specialist
Signature: Date:
email: <u>agroves@durangomidstream.com</u> Telephone: <u>(575)703-7992</u>
OCD Only
Received by: Jocelyn Harimon Date:03/20/2023

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Remediation 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. 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: Sr. Environmental Specialist
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Printed Name: Amber Groves Title: Sr. Environmental Specialist
Signature: Date:
Talanhana (575)702 7002
email:agroves@durangomidstream.com Telephone: _(575)703-7992
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Received by: Jocelyn Harimon Date:03/20/2023
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Signature: Date:
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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	9.11 NMAC
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□ Description of remediation activities	
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Received by:Jocelyn Harimon	Date: 03/20/2023
	ty of liability should their operations have failed to adequately investigate and e water, human health, or the environment nor does not relieve the responsible d/or regulations.
Closure Approved by:	Date:
Printed Name:	Title:

8" Santo Nino Steel Line 32.72646°, -103.98410° NMOCD Reference # nAPP2302727428, nAPP2304840170 Terracon Project # KH237010



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

RE: Release Investigation, and Closure Report

8" Santo Nino Steel Line Unit M, Section 21, Township 18 South, Range 30 East 32.72646°, -103.98410° Eddy County, New Mexico Terracon Project No. KH23010

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 two separate natural gas releases along a suspected corroded lateral line. The below sections detail Terracon's assessment and remediation actions in response to the noted release events.

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 has 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 approved Lab 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 were collected every 200 sq. ft.
- 9) Remedial activities were terminated when confirmation sample concentrations did not exhibit above the NMOCD RALs.

8" Santo Nino Steel Line 32.72646°, -103.98410° NMOCD Reference # nAPP2302727428, nAPP2304840170 Terracon Project # KH237010



Anticipated Actions

- 1) Following the completion of remedial activities, excavated areas are to be 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

TABLE OF CONTENTS

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Section 2 – General Site Characteristics	3
Section 3 – Regulatory Framework and Response Action Levels	
Section 4 – Remediation Activities	
Section 5 - Remediation Confirmation Assessment	
Section 6 – Analytical Results	
Section 7 – Conclusion and Closure Request	

Attachments:

Appendix A – Exhibits

Exhibit 1 – Topographic Map

Exhibit 2 – Site Map

Exhibit 3 – Site Sample Map

Exhibit 4 – NMOSE POD Location Map

Exhibit 5 – Designated 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

8" Santo Nino Steel Line 32.72646°, -103.98410° NMOCD Reference # nAPP2302727428, nAPP2304840170 Terracon Project # KH237010



Section 1 - Incident Information

The following table provides detailed information regarding the October 14, 2022, natural gas and petroleum liquid release at the 8" Santo Nino Steel Line (Santo Nino) 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	Office by Ms. Amber Gro	provided to the NMOCD District 2 Artesia ves on January 27, 2023.
Facility Description	Santo Nino is in Eddy County, New Mexico. It is an area located within Unit M, Section 21, Township 18 South, Range 30 East, approximately 25.33 miles southeast of Artesia, New Mexico. The site is predominantly developed oil and gas Right of Way (ROW). The release occurred on native pastureland owned by The Bureau of Land Management (BLM).	
Time of incident	operations. nAPP2304840170 : Fe	nuary 26, 2023, discovered during daily ebruary 16, 2023, discovered during
Discharge event	remedial operations. The natural gas pipeline leaks were caused by corrosion of the steel line and liquid was discovered leaking to the surface during normal field inspections and remedial efforts. The Site is illustrated in Exhibits 1 and 2 of Appendix A	
Type of discharge	of-way (ROW), BLM-own	gas releases occurred in an open righted, native pastureland area. Soils at the surface and surrounding the pipeline.
Quantity of spilled material	Total Fluids: 12.4 bbls	Natural Gas: 124.52 Mcf

8" Santo Nino Steel Line 32.72646°, -103.98410° NMOCD Reference # nAPP2302727428, nAPP2304840170 Terracon Project # KH237010



Required Information	Site and Release information
Site characteristics	Relatively flat with drainage following the natural ground surface; very gently sloping to the southeast.
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	POD Number: (CP-00626 POD1)
NMOSE POD Location	<u>Depth to Groundwater</u> : 247 ft. bgs
Map – (Exhibit 6 in	<u>Distance to Well</u> : 5.01 miles to the northwest
Appendix A)	<u>Date Drilled</u> : February 13, 1981
	<u>Last Date Meter Reading</u> : August 12, 2019
	Groundwater Quality: Groundwater quality at the site is predominately used for livestock production.
Surface Water	Salt Lake (unnamed), approximately 4.08 miles to the southeast.
NM Wetland Map – (Exhibit 7 in Appendix A)	
100-Year Flood Plain	This site is not located within 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.

8" Santo Nino Steel Line 32.72646°, -103.98410° NMOCD Reference # nAPP2302727428, nAPP2304840170 Terracon Project # KH237010



Physical Characteristic	Site Ranking Characteristics
Karst Characterization Cave Karst Public UCP Map – (Exhibit 8 in Appendix A)	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 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 Revegetation (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 Santo 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

Facilities | Environmental | Geotechnical | Materials

8" Santo Nino Steel Line 32.72646°, -103.98410° NMOCD Reference # nAPP2302727428, nAPP2304840170 Terracon Project # KH237010



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	100 mg/kg
(GRO+DRO+MRO)	
BTEX	50 mg/kg
Benzene	10 mg/kg

Section 4 – Remediation Activities

On February 15th, 16th, and 20th of 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 8 to 14 feet bgs. During our remedial activities on February 16, 2023, the second release occurred and was contained within the original excavation.

Approximately 3,700 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 12 composite soil samples including sidewall (SW) samples and floor (FS) samples, (N-SW01-02, S-SW01-02, E-SW01-02, W-SW01-02, and FS-01 through FS-04) were collected every 200 sq. ft, from the excavation, 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 on February 17 and 20, 2023 did not exhibit concentrations of BTEX or TPH (EPA Method 8015M) above laboratory sample detection limits (SDLs).

Facilities | Environmental | Geotechnical | Materials

8" Santo Nino Steel Line 32.72646°, -103.98410° NMOCD Reference # nAPP2302727428, nAPP2304840170 Terracon Project # KH237010



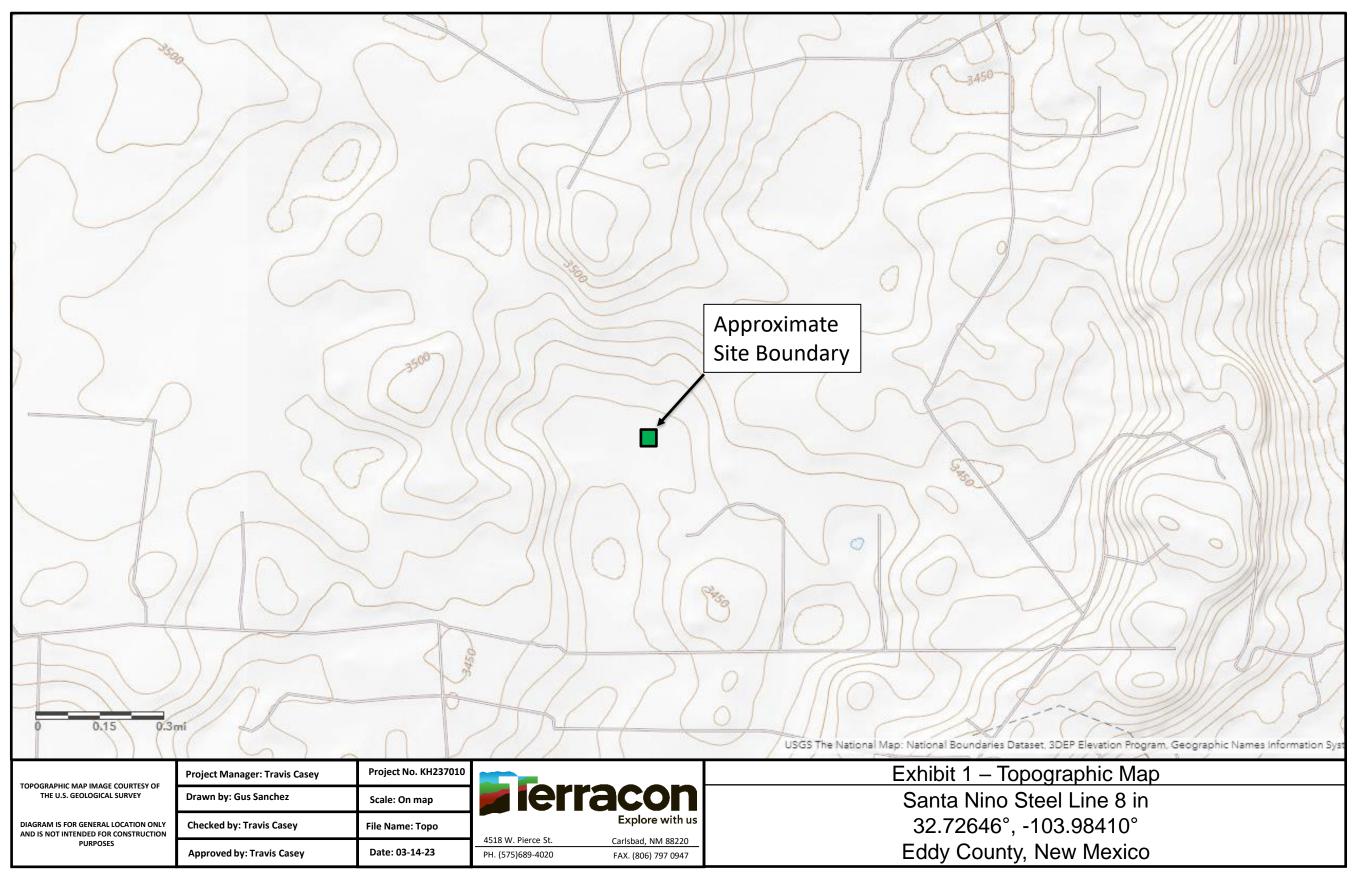
Six of the soil samples collected from the excavation area exhibited concentrations of chloride above laboratory SDLs and ranging from 32.0 mg/kg in S-SW01 (0-9 feet) to 208.0 mg/kg in FS-03 (5-6 feet). Chloride concentrations generally decrease with sample depth as exhibited in samples FS-03 and FS-04. Sample FS-03 contained a chloride concentration of 208.0 mg/kg at 5-6 feet and FS-04 contained a chloride concentration of 80.0 mg/kg at the 11-12 feet.

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

Section 7 - Conclusion and Closure Request

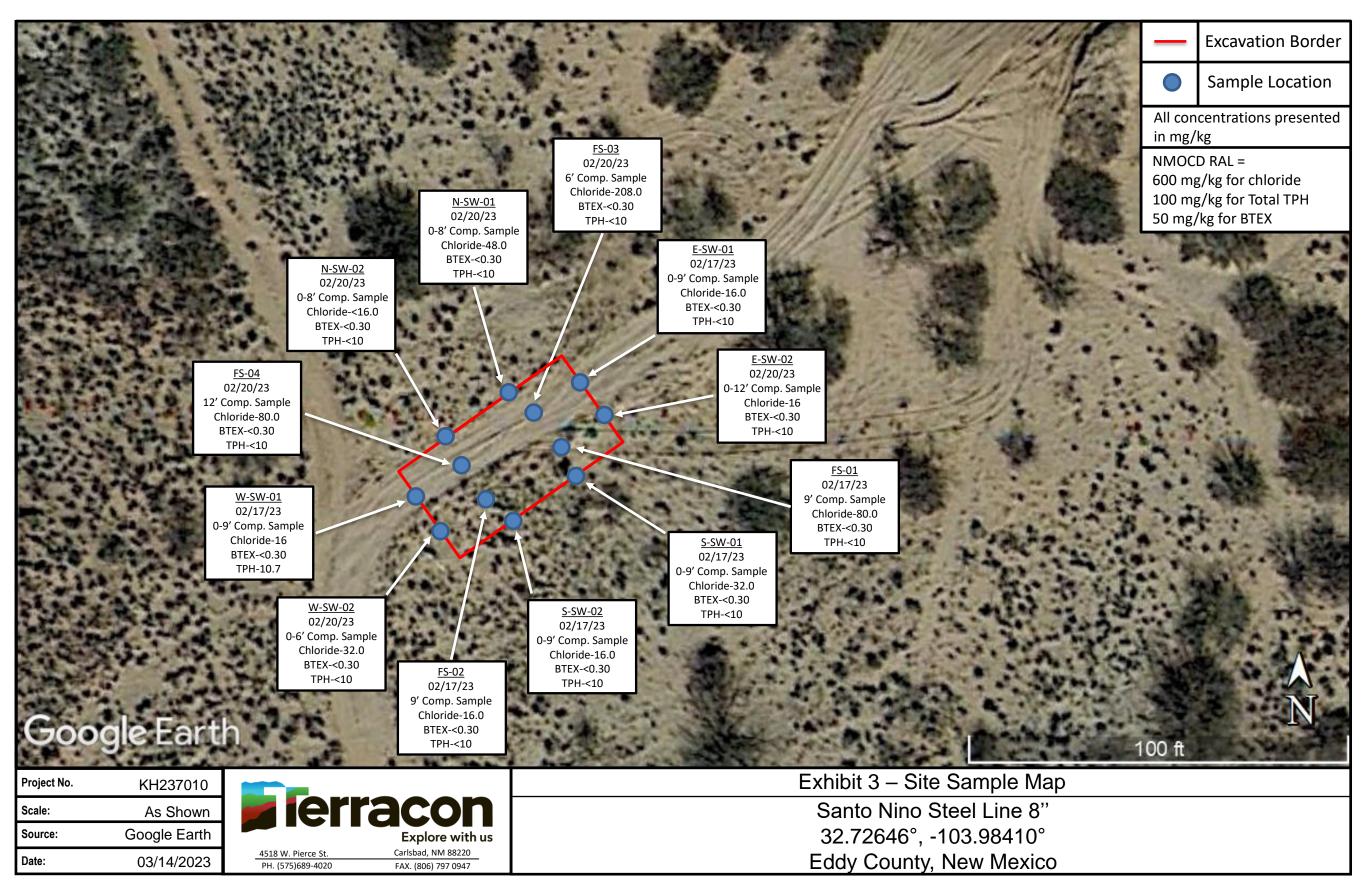
In accordance with NMAC 19.15.29.12, remediation of the impacted material is complete, and Terracon along with Frontier Field Services respectfully requests closure of the incidents nAPP2302727428 and nAPP2304840170.

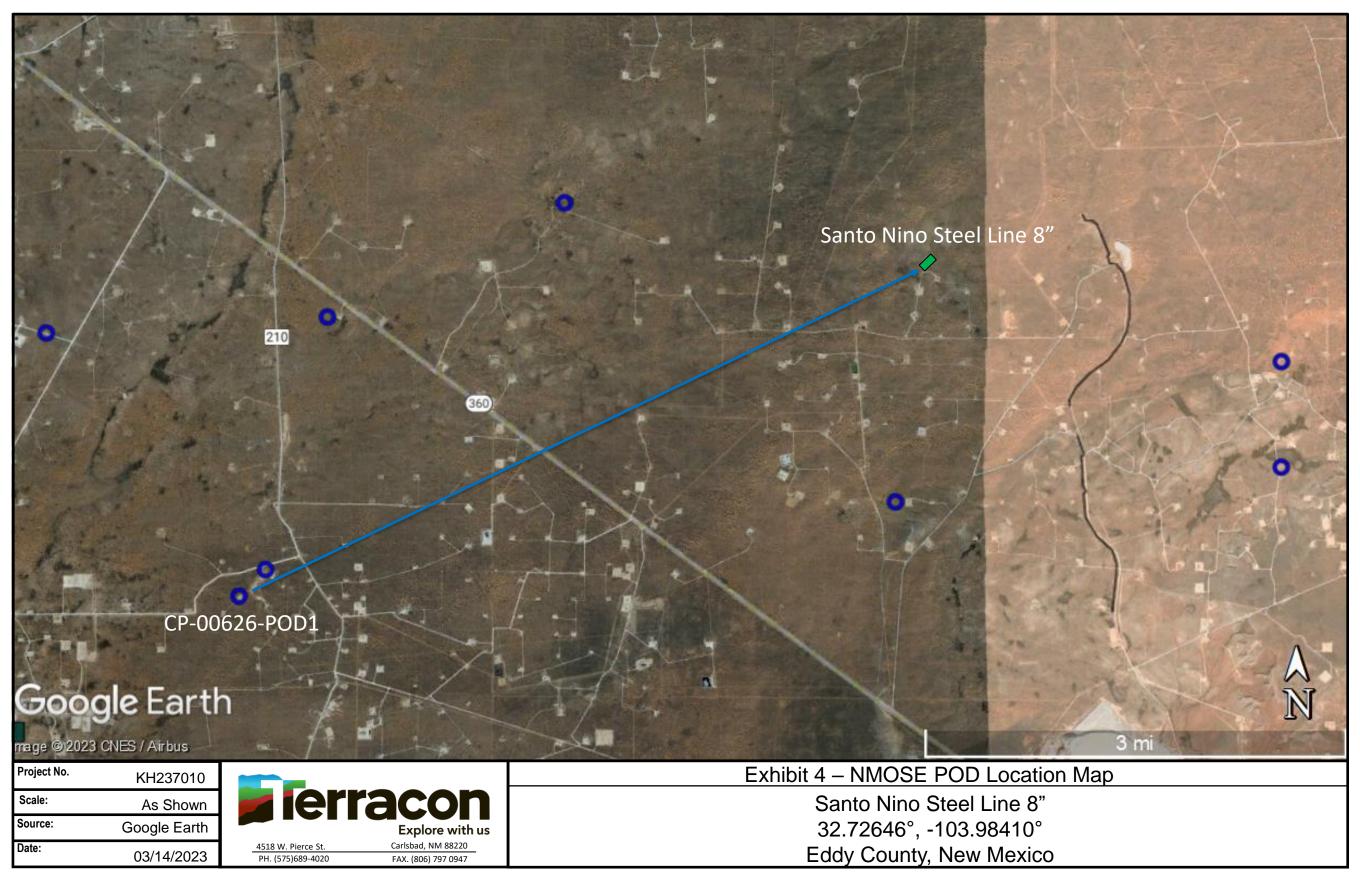
APPENDIX A - EXHIBITS

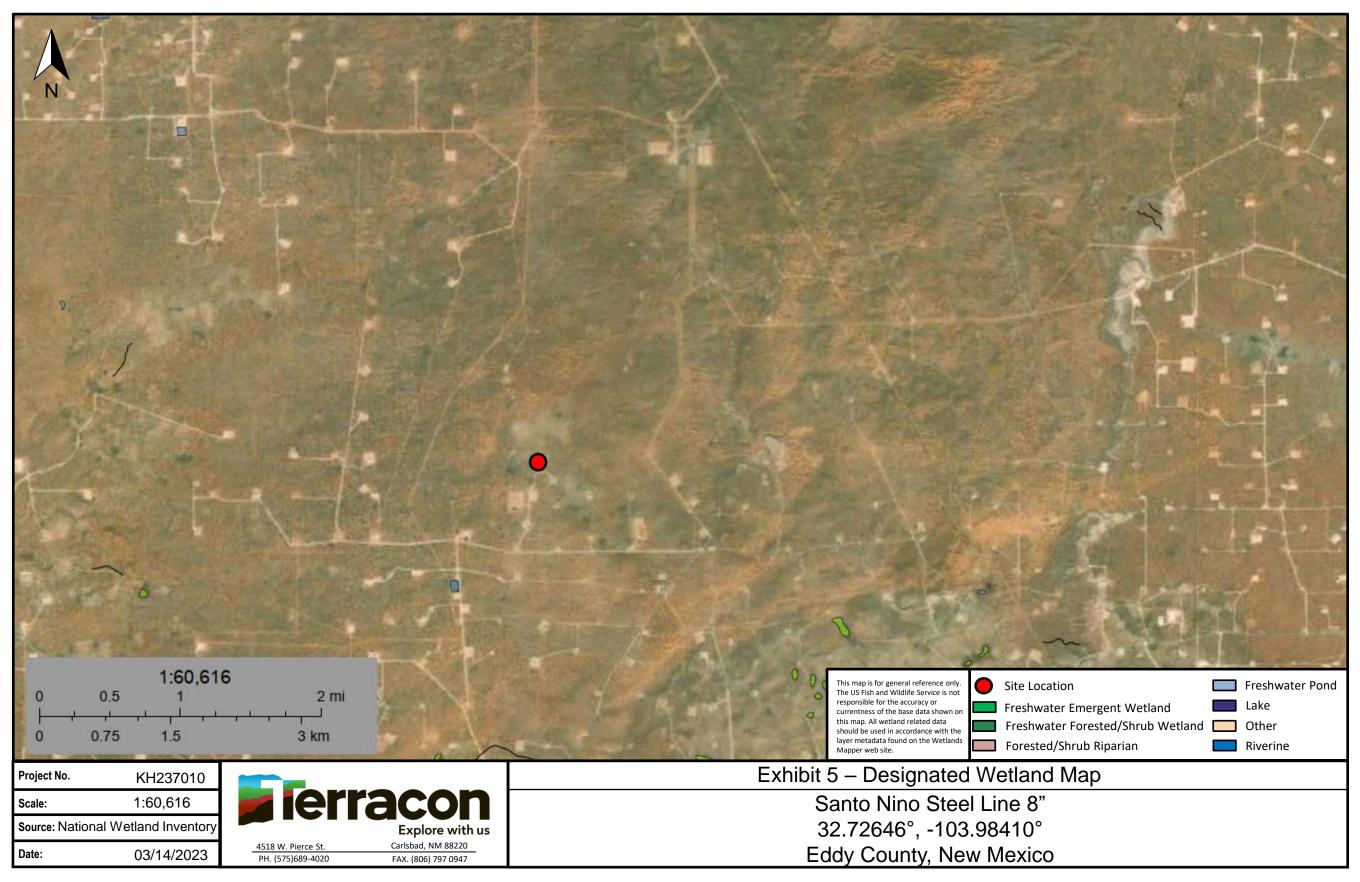


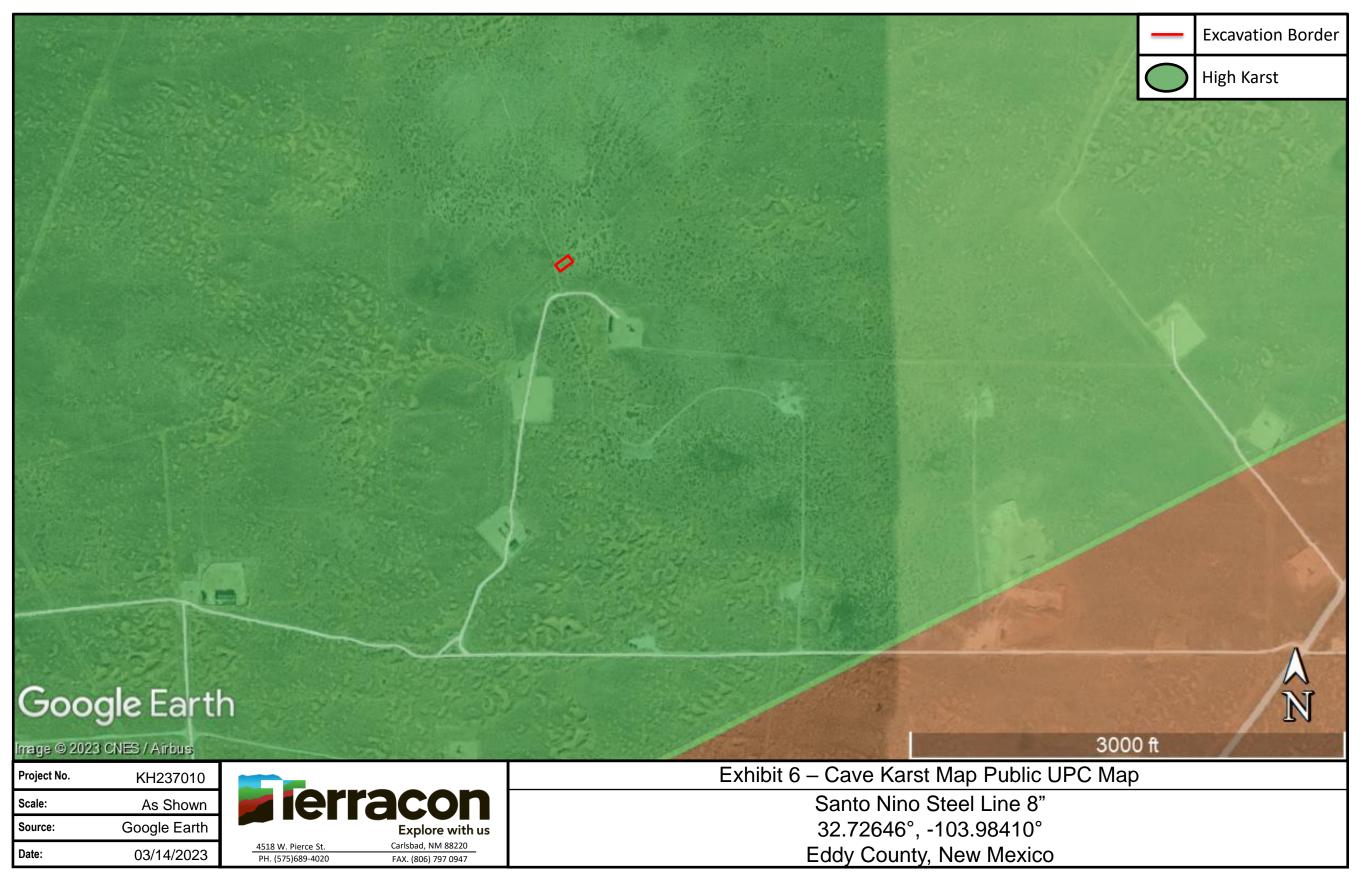
Page 20 of 56











APPENDIX B – TABLES, PROCEDURES, AND FIGURES

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS - BTEX¹, Chloride², and TPH³ Santa Nino 8" Terracon Project No. KH237010

Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)		,			
	(*** 9-7			, , ,	(99)	GRO	DRO	EXT DRO			
			Con	nfirmation Samples (Off Pad)							
N-SW01	0-8	Comp	02/20/23	Benzene - < 0.050 Total BTEX - < 0.300	48.0	<10.0	<10.0	<10.0			
N-SW02	0-8	Comp	02/20/23	Benzene - <0.050 Total BTEX - <0.300	<16.0	<10.0	<10.0	<10.0			
S-SW01	0-9	Comp	02/17/23	Benzene - <0.050 Total BTEX - <0.300	32.0	<10.0	<10.0	<10.0			
S-SW02	0-9	Comp	02/17/23	Benzene - <0.050 Total BTEX - <0.300	<16.0	<10.0	<10.0	<10.0			
E-SW-01	0-9	Comp	02/17/23	Benzene - <0.050 Total BTEX - <0.300	<16.0	<10.0	<10.0	<10.0			
E-SW-02	0-12	Comp	02/20/23	Benzene - <0.050 Total BTEX - <0.300	<16.0	<10.0	<10.0	<10.0			
W-SW01	0-9	Comp	02/17/23	Benzene - <0.050 Total BTEX - <0.300	<16.0	<10.0	10.7	<10.0			
W-SW02	0-6	Comp	02/20/23	Benzene - <0.050 Total BTEX - <0.300	32.0	<10.0	<10.0	<10.0			
FS-01	9	Comp	02/17/23	Benzene - < 0.050 Total BTEX - < 0.300	80.0	<10.0	<10.0	<10.0			
FS-02	9	Comp	02/17/23	Benzene - < 0.050 Total BTEX - < 0.300	<16.0	<10.0	<10.0	<10.0			
FS-03	6	Comp	02/20/23	Benzene - < 0.050 Total BTEX - < 0.300	208.0	<10.0	<10.0	<10.0			
FS-04	12	Comp	02/20/23	Benzene - < 0.050 Total BTEX - < 0.300	80.0	<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							

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

NA = Not Analyzed

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.

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

Santo Nino Steel Line 8" Release

Eddy County, New Mexico



March 14, 2023 Terracon Project No. KH237010



PHOTO 1: View of the area prior to excavation from the southwest facing northeast.

Santo Nino Steel Line 8" Release ■ Eddy County, New Mexico



March 14, 2023 Terracon Project No. KH237010



PHOTO 2: View of the area prior to excavation from the southwest facing northeast.

Santo Nino Steel Line 8" Release ■ Eddy County, New Mexico



March 14, 2023 ■ Terracon Project No. KH237010



PHOTO 3: View of the area prior to excavation from the southwest facing northeast.

Santo Nino Steel Line 8" Release

Eddy County, New Mexico



March 14, 2023 Terracon Project No. KH237010



PHOTO 4: View of the area prior to excavation from the northwest facing southeast.



PHOTO 5: View of the area prior to excavation from the northeast facing southwest.

Responsive Resourceful Reliable

APPENDIX D - ANALYTICAL REPORT AND CHAIN OF CUSTODY



February 23, 2023

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

RE: SANTA NINO

Enclosed are the results of analyses for samples received by the laboratory on 02/20/23 11:15.

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.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/20/2023 Reported: 02/23/2023

Project Name: SANTA NINO
Project Number: KH237010

Project Location: DURANGO - LEA CO NM

Sampling Date: 02/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSW 01 (H230773-01)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.17	109	2.00	10.3	
Toluene*	<0.050	0.050	02/22/2023	ND	2.45	123	2.00	19.1	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.03	102	2.00	2.35	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.36	106	6.00	3.50	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
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	02/21/2023	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	02/21/2023	ND	224	112	200	0.363	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	230	115	200	0.0517	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	111 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/20/2023 Reported: 02/23/2023

02/23/2023 SANTA NINO KH237010

Project Location: DURANGO - LEA CO NM

Sampling Date: 02/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: WSW 01 (H230773-02)

Project Name:

Project Number:

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.17	109	2.00	10.3	
Toluene*	<0.050	0.050	02/22/2023	ND	2.45	123	2.00	19.1	
Ethylbenzene*	< 0.050	0.050	02/22/2023	ND	2.03	102	2.00	2.35	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.36	106	6.00	3.50	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 71.5-13	14						
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	02/21/2023	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	02/21/2023	ND	186	93.0	200	2.11	
DRO >C10-C28*	10.7	10.0	02/21/2023	ND	195	97.4	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	34						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	18						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/20/2023 Reported: 02/23/2023

02/23/2023 SANTA NINO KH237010

ma/ka

Project Location: DURANGO - LEA CO NM

Sampling Date: 02/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: ESW 01 (H230773-03)

Project Name:

RTFY 8021R

Project Number:

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.17	109	2.00	10.3	
Toluene*	<0.050	0.050	02/22/2023	ND	2.45	123	2.00	19.1	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.03	102	2.00	2.35	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.36	106	6.00	3.50	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/21/2023	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	02/21/2023	ND	186	93.0	200	2.11	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	195	97.4	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	97.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112	% 49.1-14	8						

Analyzed By: 1H /

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/20/2023

Reported: 02/23/2023
Project Name: SANTA NINO
Project Number: KH237010

Project Location: DURANGO - LEA CO NM

ma/ka

Sampling Date: 02/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SSW 02 (H230773-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.17	109	2.00	10.3	
Toluene*	<0.050	0.050	02/22/2023	ND	2.45	123	2.00	19.1	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.03	102	2.00	2.35	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.36	106	6.00	3.50	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/21/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	186	93.0	200	2.11	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	195	97.4	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

Analyzed By: 1H /

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Celeg D. Freene



Analytical Results For:

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

Received: 02/20/2023 Reported:

02/23/2023 SANTA NINO

Project Name: Project Number: KH237010

DURANGO - LEA CO NM Project Location:

Sampling Date: 02/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

Sample ID: FS 01 (H230773-05)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.17	109	2.00	10.3	
Toluene*	<0.050	0.050	02/22/2023	ND	2.45	123	2.00	19.1	
Ethylbenzene*	< 0.050	0.050	02/22/2023	ND	2.03	102	2.00	2.35	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.36	106	6.00	3.50	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/21/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	186	93.0	200	2.11	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	195	97.4	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 %	6 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

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

Received: 02/20/2023

Reported: 02/23/2023
Project Name: SANTA NINO
Project Number: KH237010

Project Location: DURANGO - LEA CO NM

ma/ka

Sampling Date: 02/17/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS 02 (H230773-06)

RTFY 8021R

B1EX 8021B	mg	rkg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.17	109	2.00	10.3	
Toluene*	<0.050	0.050	02/22/2023	ND	2.45	123	2.00	19.1	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	2.03	102	2.00	2.35	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.36	106	6.00	3.50	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/21/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	186	93.0	200	2.11	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	195	97.4	200	2.50	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	93.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107	% 49.1-14	8						

Analyzed By: 1H /

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Celeg D. Freene



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Freene

Relinquished By:

Date: Time:

Received By:

avs+avo

Sanchez

300

Received By:

tions, loss of use, or loss of profits incurred by client, its subsidiaries

Verbal Result:

□ Yes

□ No

Add'I Phone #:

All Results are emailed. Please provide Email address:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Observed Temp.

10 0,0

Cool Intact
Yes 4 Yes
No 10 No Sample Condition

> CHECKED BY: (Initials)

> > Turnaround Time:

Standard Rush

Cool Intact

☐ Yes ☐ Yes ☐ No ☐ No

Corrected Temp. °C Observed Temp. °C

Becky Sue Miller (1) Nample Condition

Thermometer ID #113
Correction Factor -0.5°C

Gus. Sanchez@terracon.com

Time:

Relinquished By:

vice. In no event shall Cardinal be liable for incidental or

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Terracon			BIL	BILL TO				,	ANALYSIS	IS REQ	REQUEST	
Project Manager: Joseph Guesnier			P.O. #:		Ц	\dashv	\dashv					
Address: 4518 W. Perice Street			Company: Durango	mango								
City: Carlsbad State: NM 2	Zip:	88220	Attn: Amber Groves	r Groves								
Phone #: 8065077057 Fax #:			Address:			_						
Project #: KHQ3 7010 Project Owner:			City:			_						
Project Name: Santa Viño			State: Z	Zip:								
_			Phone #:		20)	00)	B)					
ravis Ca			Fax #:			d45	1021	-				
\neg	-	MATRIX	PRESERV.	SAMPLING								
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME		Chloride (EPA Me	TPH Extended 80 BTEX (EPA Metho	BLEX (ELA Metric				
SWOI	_	<	<		_	\ \ \	\					
NS WOI	0	<	/		_	<	-					
	0	<u> </u>	<u> </u>		_	<	~					
	0	<	<		_	_	<					
S	0	<	<		_	_	\ \					
6 ES 03	0	<	<		_	_	~					
	+				_							
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

REMARKS: joesph.guesnier@terracon.com; travis.casey@terracon.com; Justin. Friem austin.worley@terracon.com; michael.adams@terracon.com



February 23, 2023

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

RE: SANTA NINO

Enclosed are the results of analyses for samples received by the laboratory on 02/21/23 12:08.

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.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Received: 02/21/2023 Reported: 02/23/2023

02/23/2023 SANTA NINO KH237010

Project Location: DURANGO - EDDY CO NM

Sampling Date: 02/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: N-SW-02 (H230804-01)

Project Name:

Project Number:

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8	
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/21/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

A d D. ... 311 /

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Celey D. Keine



Analytical Results For:

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

Received: 02/21/2023 Reported: 02/23/2023

02/23/2023 SANTA NINO KH237010

mg/kg

Project Location: DURANGO - EDDY CO NM

Sampling Date: 02/21/2023

Sampling Type: Soil
Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: N-SW-01 (H230804-02)

Project Name:

BTEX 8021B

Project Number:

DILX GOZID	ıııg,	, kg	Alldiyzo	.u Dy. 3117					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8	
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/21/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.9	% 49.1-14	8						

Analyzed By: JH/

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Celey D. Kreine



Analytical Results For:

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

Received: 02/21/2023

Reported: 02/23/2023
Project Name: SANTA NINO
Project Number: KH237010

Project Location: DURANGO - EDDY CO NM

Sampling Date: 02/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: E-SW-02 (H230804-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8	
Toluene*	<0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/21/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	98.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/21/2023 Sampling Date: 02/21/2023

Reported: 02/23/2023 Sampling Type: Soil

Project Name: SANTA NINO Sampling Condition: Cool & Intact
Project Number: KH237010 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: DURANGO - EDDY CO NM

ma/ka

Sample ID: FS-03 (H230804-04)

RTFY 8021R

BIEX 8021B	mg,	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.24	112	2.00	11.8	
Toluene*	< 0.050	0.050	02/22/2023	ND	2.37	119	2.00	17.1	
Ethylbenzene*	< 0.050	0.050	02/22/2023	ND	1.99	99.7	2.00	2.40	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.08	101	6.00	3.24	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/21/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	93.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

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

Received: 02/21/2023 Reported: 02/23/2023

02/23/2023 SANTA NINO

Project Number: KH237010

Project Location: DUBANGO -

Project Location: DURANGO - EDDY CO NM

Sampling Date: 02/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W-SW-02 (H230804-05)

Project Name:

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	0.0650	
Toluene*	<0.050	0.050	02/22/2023	ND	2.06	103	2.00	0.584	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.5	2.00	1.10	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.10	102	6.00	1.82	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/21/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 02/21/2023

Reported: 02/23/2023
Project Name: SANTA NINO
Project Number: KH237010

Project Location: DURANGO - EDDY CO NM

Sampling Date: 02/21/2023

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS-04 (H230804-06)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/22/2023	ND	2.08	104	2.00	0.0650	
Toluene*	<0.050	0.050	02/22/2023	ND	2.06	103	2.00	0.584	
Ethylbenzene*	<0.050	0.050	02/22/2023	ND	1.99	99.5	2.00	1.10	
Total Xylenes*	<0.150	0.150	02/22/2023	ND	6.10	102	6.00	1.82	
Total BTEX	<0.300	0.300	02/22/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/21/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/21/2023	ND	189	94.7	200	7.74	
DRO >C10-C28*	<10.0	10.0	02/21/2023	ND	189	94.7	200	5.06	
EXT DRO >C28-C36	<10.0	10.0	02/21/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

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 whistoever 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. Keine



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

Sampler - UPS - Bus - Other:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



	(575) 393-2326 FAX (5/5) 393-24/6	0						١	١								
ompany Name:	Terracon				BIL	BILL TO					ANALYSIS			KEQUESI	2	-	1
roject Manager:	roject Manager: Joseph Guesnier			P.C	P.O. #: KH	KH237010										_	
Address: 4518 W. Perice Street	/. Perice Street			Col	npany: ();	Company: During 0		_									
Carlsbad	State: NM	Zip: 8	88220	Attı	n: Almbe	Attn: Amber Groves	85										
hone #: 8065077057	7057 Fax #:			Ado	dress: 47	Address: 47 Conoco Rd	Rd	_	_	_							
roject #: VH2	070	O	usanas	Cit	city: Marjamar	amar		_									_
ame:	87 SE		0	Sta	te:///	State: N/M Zip: 88264	12.6										
- 1	Englin			Ph	one #: 57	Phone #: 575-703-7992	20	00)		IB)							
Sampler Name:	Travis Casev			Fax #:	(#:			d45		302					8		
-	I ravis casey	4	MATRIX	ŀ	DRESERV	SAMPLING		_		8 1							
FOR LAB USE ONLY	e	P.	MAIRIX		PAROEAY.					thoo							
Lab I.D.	Sample I.D.	CONTAINERS	ROUNDWATER WASTEWATER OIL	THER :	CID/BASE: CE / COOL OTHER :	DATE		Chloride (EPA N	TPH Extended	BTEX (EPA Met							
100000	11-511-09	_	C	_	<	Ch:0151-12-10	10:47	1	5	/	2						
7-	N-SI)-01	7	,		v,		5h:01	_									
K	L-81-02	1	<		<		1:35										
20	3	7	<		0		11:17										
3	W-5W-02		2		0	_	10:44										
61	F3-04	c 2	<		<	~	8::	1-	1	1-	+					_	
											\forall	\forall					
LEASE NOTE: Liability an nalyses. All claims includin	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the 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 30 days after completion of the splicable place. All the provided in the split of th	y claim ar eemed w	rising whether based in containing whether based in writing the made in writing the material of the material o	and rece	t, shall be limited in whed by Cardinal wifuse, or loss of pr	to the amount paid within 30 days after offts incurred by clin	by the client for the completion of the ant, its subsidiaries	e applicable s,									
iffiliates or successors arisin	ssors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above	ardinal, re	gardless of whether such c	aim is bas	sed upon any of th	e above stated reas	Verbal Result:	ult:	□ Yes	□ No		Add'l Phone #:	1e #:				
Relinquished By:	": Jane 21-23 Time: 08	Zec	The Colved by	a	M	A Company	All Results are emailed. Please provide Email address:	are em	ailed.	Please pro	ovide E	mail a	ddress:				
Relinquished By:		Rec	Received By:		(,	REMARKS:		h.gues n.worle	joesph.guesnier@terracon.com; travis.casey@terracon.com; austin.worley@terracon.com; michael.adams@terracon.com	con.cor	n; travi michae	s.casey l.adams	@terra s@terra	con.com;		
Delivered Rv. (C	Ohansvad Tamp	D D	Sample Cor	dition		CHECKED BY:	Turnaround Time:	Time:		Standard		Bac	teria (c	only) S	ample Co	Bacteria (only) Sample Condition	
Delivered By: (Circle One)	Ircle One) Ubserved lemp. C.C.	C	Salliple Colidition	dinon		1000				Rush		000	Intac	÷	Observed	d Temp. °C	.,

APPENDIX E - INITIAL C-141

Received by OCD: 3/17/2023 6:04:49 AM
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

Responsible Party Frontier Field Services, LLC

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

Page 52 of 56

Incident ID	nAPP2304840170
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID 221115

				Contact	Contact Telephone 575-703-7992		
Contact email agroves@durangomidstream.com				Incident	Incident # (assigned by OCD)		
Contact mail	ing address	47 Conoco Rd, M	aljamar NM 8820	64			
			Location	of Release	Source		
Latitude	Latitude Longitude -103.98410 (NAD 83 in decimal degrees to 5 decimal places)						
Site Name 8"	Santo Nino	Steel Line		Site Typ	Site Type Pipeline		
Date Release	Discovered	2/16/2023		API# (if a	applicable)		
Unit Letter	Section	Township	Range	Со	unty		
M	21	18S	30E		ddy		
Crude Oil	Material	(s) Released (Select all Volume Released	Nature and that apply and attach d (bbls)			e volumes provided below) overed (bbls)	
Produced	Water	Volume Released			Volume Reco		
		Is the concentration of dissolved chloride in produced water >10,000 mg/l?			Yes No		
Condensate		Volume Released (bbls)			Volume Recovered (bbls)		
Natural Gas Volume Re			Released (Mcf) 124.52		Volume Recovered (Mcf)		
Other (describe)		Volume/Weight	units)	Volume/Weiş	ght Recovered (provide units)		
Cause of Rele External & Int		sion.					

Received by OCD: 3/17/2023 6:04:49 A Mate of New Mexico
Page 2 Oil Conservation Division

	Page 53 of	ď
Incident ID	nAPP2304840170	•
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?
	Initi	al Response
The responsible p	party must undertake the following actions im	nediately unless they could create a safety hazard that would result in injury
_	s been secured to protect human heal	
	we been contained via the use of berr ecoverable materials have been remove	ns or dikes, absorbent pads, or other containment devices.
has begun, please attach a	a narrative of actions to date. If rem	ence remediation immediately after discovery of a release. If remediation redial efforts have been successfully completed or if the release occurred AC), please attach all information needed for closure evaluation.
regulations all operators are a public health or the environm failed to adequately investigated	required to report and/or file certain releation. The acceptance of a C-141 report but and remediate contamination that post	to the best of my knowledge and understand that pursuant to OCD rules and se notifications and perform corrective actions for releases which may endanger y the OCD does not relieve the operator of liability should their operations have a threat to groundwater, surface water, human health or the environment. In ator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Amb	per Groves	Title:Senior Environmental Specialist
Signature:	KNOVE	Date: _2/17/2023
email: <u>agroves@duran</u>	gomidstream.com	Telephone: _(575)703-7992
OCD Only		
Received by:		Date:



Gas Volume Release Report

	Gas Release Vo	lume Calculat	or			
Date:	2/16/2023					
Site or Line Name:		MAL-Santo Nino 8" Steel Line LP				
Area of Hole in Pipe:	0.25	square inches				
Absolute Pressure:	72.5	psia - absolute pressure (psia = psig gauge pressure + 14.7)				
Duration of Release:	60.00	minutes				
Actual Temperature:	41	Degrees F				
Representative Gas Analysis		Please attach o	or email a rep	resentative g	as analysis	
Constants						
Temperature at standard conditions:	60	Deg. F				
Pressure at standard conditions:	14.7	PSIA				
Volume of Gas - ACF	24.32	MACF				

124.52

	Notes	
	Entered by user	
	Calculated Value	
+ X - X	Constant	

Volume of Gas - SCF

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 (PKH237010).

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
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

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 198125

CONDITIONS

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
10077 Grogans Mill Rd.	Action Number:
The Woodlands, TX 77380	198125
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created		Condition Date
rham	We have received your closure report and final C-141 for Incident #NAPP2304840170 8" SANTO NINO STEEL LINE #2, thank you. This closure is approved.	7/28/2023