

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2214330261
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?	<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 type="checkbox"/> Yes <input checked="" 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

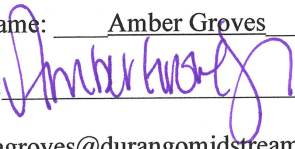
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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.

State of New Mexico
Oil Conservation Division

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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 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: Remediation Specialist

Signature:  Date: 12/9/2022

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

OCD Only

Received by: Jocelyn Harimon Date: 12/14/2022

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Remediation Plan

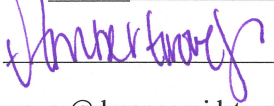
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ 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.

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: Remediation Specialist
Signature:  Date: 12/9/2022
email: agroves@durangomidstream.com Telephone: (575)703-7992

OCD Only

Received by: Jocelyn Harimon Date: 12/14/2022

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

Signature:  Date: 12/14/2022



Remediation Summary and Closure Request

Frontier Field Services, LLC

6" Santo Nino

Eddy County, New Mexico

Unit Letter "H", Section 4, Township 18 South, Range 30 East

Latitude 32.776513 North, Longitude 103.972630 West

NMOCD Incident # nAPP2214330261

Prepared For:

Frontier Field Services, LLC

47 Conoco Rd

Maljamar, NM 88264

Prepared By:

Hungry Horse, LLC

4024 Plains Hwy

Lovington, NM 88260

Office: (575) 393-3386

August 2022

Bradley Wells

Bradley Wells

Project Manager

bwells@hungry-horse.com

Daniel Dominguez

Daniel Dominguez

Environmental Manager

ddominguez@hungry-horse.com

Table Of Contents

NMOCD Form C-141 Closure Page	
Background	1
NMOCD Site Classification	1
Delineation and Remediation Activities	2
Restoration, Reclamation, and Re-Vegetation	3
Closure Request	3
Limitations	3
Distribution	4

Figures

- Figure 1 – Topographic Map
- Figure 2 – OSE POD Locations Map
- Figure 3 – USGS Well Locations Map
- Figure 4 – Delineation Sample Map
- Figure 5 – Excavation Sample Map

Tables

- Table 1 – Summary of Soil Sample Laboratory Analytical Results

Attachments

- Attachment I – Karst and Wetland Maps
- Attachment II – NMOCD Correspondence
- Attachment III – Site Photographs
- Attachment IV – Depth to Groundwater
- Attachment V – Field Data
- Attachment VI – Laboratory Analytical Reports
- Attachment VII – NMOCD Form Initial C-141

Form C-141

State of New Mexico
Oil Conservation Division

Page 6

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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 OCD 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: [Signature] Date: 9/1/2022
 email: agroves@durangomidstream.com Telephone: 575-703-7992

OCD Only

Received by: Jocelyn Harimon Date: 12/14/2022

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: [Signature] Date: 12/14/2022
 Printed Name: Jocelyn Harimon Title: Environmental Specialist



HUNGRY HORSE, LLC

The following *Remediation Summary and Closure Request* serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter H (SE/NE), Section 4, Township 18 South, Range 30 East, approximately 3 miles South of Loco Hills, in Eddy County, New Mexico. The property is Federally owned. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred on an active pipeline; Latitude 32.776513 North, Longitude 103.972630 West. The Initial NMOCD Form C-141 indicated that on May 22, 2022 approximately 0.78 bbls of condensate and 166.58 Mcf of natural gas were released due to internal corrosion on the pipeline. A crew was dispatched to the release site and the line was repaired. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. NMOCD Form Initial C-141 is also included as Attachment VII, nAPP2214330261.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is not located in a Karst designated area. Karst and Wetland Maps are provided as Attachment I. Depth to groundwater information is provided as Attachment IV and the results are depicted on Figures 2 & 3.

No water wells were located within a half mile of the release area, therefore depth to groundwater could not be determined. Consequently, the site was delineated and further remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
undetermined	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg



Delineation and Remediation Activities:

On July 21, 2022, Hungry Horse conducted an initial site assessment consisting of photographing and mapping the release area. On July 28 and 29, 2022 the release area was excavated and contaminated soil hauled to an NMOCD approved facility for disposal.

On August 3, 2022, four composite confirmation soil samples were collected from the excavation floor and sidewalls, every 200 square feet and every 50 linear feet, respectively. In addition, on August 4, 2022, hand augered soil bores were advanced along the outside edges of the excavated area in an effort to determine the horizontal extent of contamination. These sample locations are identified by HZ designation. Closure and Delineation soil samples were collected and field screened for the presence of chloride concentrations utilizing a Hach Quantab® chloride test kit.

Based on field observations and field test data noted above and provided in Attachment V, twelve representative soil samples were selected for laboratory analysis. Delineation soil samples HZ1-HZ4, and closure samples FL1A, FL2, SW1A, and SW2A, were submitted to the laboratory on August 4, 2022, for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples, with the exception of closure samples SW1A at two feet bgs, and SW2A at two feet bgs, which exhibited TPH and chloride concentrations in excess of the NMOCD Closure Criteria.

On August 15, 2022, the sidewalls were excavated laterally approximately one foot and re-sampled. Soil impacted above the NMOCD Closure Criteria was excavated and transported to an NMOCD approved disposal facility. Manifests can be provided upon request. Closure samples SW1B and SW2B were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

The excavated area measured approximately fifty-five feet in length, thirty-five feet in width, and two to three feet in depth. During remediation activities approximately 144 cubic yards of impacted soil were excavated and hauled to an NMOCD approved disposal facility. Manifests can be provided upon request.

A Delineation Sample Map and Excavation Sample Map are provided as Figure 4 and Figure 5, respectively. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment VI.



Restoration, Reclamation, and Re-Vegetation:

On August 22, 2022, based upon laboratory analytical results from confirmation soil samples, the excavated area was backfilled with locally sourced, clean, non-impacted material. The area was contoured to achieve erosion control and preserve surface water flow. The affected area will be reseeded with an approved seed mixture during the first favorable growing season following these completed remediation activities.

Closure Request:

Remediation activities were conducted in accordance with applicable NMOCD Regulations. Soil affected above the NMOCD Closure Criteria has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from composite confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results, Frontier Field Services, LLC respectfully requests closure of the 6" Santo Nino location, nAPP2214330261.

Limitations:

Hungry Horse, LLC, has prepared this *Remediation Summary and Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



Distribution:

Frontier Field Services, LLC

47 Conoco Rd.
Maljamar, NM 88264

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2
811 S. First St.
Artesia, NM 88210

New Mexico Bureau of Land Management

620 E. Greene St
Carlsbad, NM 88220

Figures

**Figure 1**

Topographic Map
 Frontier Field Services, LLC
 6" Santo Nino
 GPS: 32.776513, -103.97263
 Eddy County

Legend:

● 6" Santo Nino Location

Drafted: dd
 Checked: bw
 Date: 7/21/22



**Figure 2**

OSE POD Locations Map
Frontier Field Services, LLC
6" Santo Nino
GPS: 32.776513, -103.97263
Eddy County

Legend:

● 6" Santo Nino Location

Drafted: dd
Checked: bw
Date: 7/21/22



**Figure 3**

USGS Well Locations Map
Frontier Field Services, LLC
6" Santo Nino
GPS: 32.776513, -103.97263
Eddy County

Legend:

● 6" Santo Nino Location



Drafted: dd
Checked: bw
Date: 7/21/22



**Figure 4**

Delineation Sample Map
Frontier Field Services, LLC
6" Santo Nino
GPS: 32.776513, -103.97263
Eddy County

Legend:

-  Excavated Area
 Delineation Sample Location

Drafted: dd
Checked: bw
Date: 8/4/22



**Figure 5**

Excavation Sample Map
Frontier Field Services, LLC
6" Santo Nino
GPS: 32.776513, -103.97263
Eddy County

Legend:

Excavated Area



Composite Confirmation Sample Location



Drafted: dd
Checked: bw
Date: 8/15/22

Table

TABLE 1
Summary of Soil Sample Laboratory Analytical Results
Frontier Field Services, LLC
6" Santo Nino
NMOCD Ref. #: nAPP2214330261

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
HZ1	8/4/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	8/4/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ2	8/4/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	8/4/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ3	8/4/22	Surf	In-Situ	<0.050	<0.300	<10.0	10.4	10.4	<10.0	<30.0	432.0
	8/4/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ4	8/4/22	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	8/4/22	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL1A	8/3/22	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL2	8/3/22	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SW1A	8/3/22	2	Excavated	<0.050	<0.300	<10.0	150	150	<10.0	150	1,460
SW1B	8/15/22	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW2A	8/3/22	2	Excavated	<0.050	<0.300	<10.0	226	226	<10.0	226	720
SW2B	8/15/22	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Attachment I

Karst and Wetland Maps

**Karst springs**

Spring with low flow discharge $\geq 2 \text{ m}^3/\text{s}$

Spring with low flow discharge $< 2 \text{ m}^3/\text{s}$

Submarine spring

Thermal spring

Water abstraction structure in karst aquifer

Cave systems

Border between exposed and non-exposed karstifiable rocks

Selected city, partly dependent on groundwater

Boundary of continuous permafrost

Continuous ice sheet

Discontinuous carbonate rocks

Continuous evaporite rocks

Discontinuous evaporite rocks

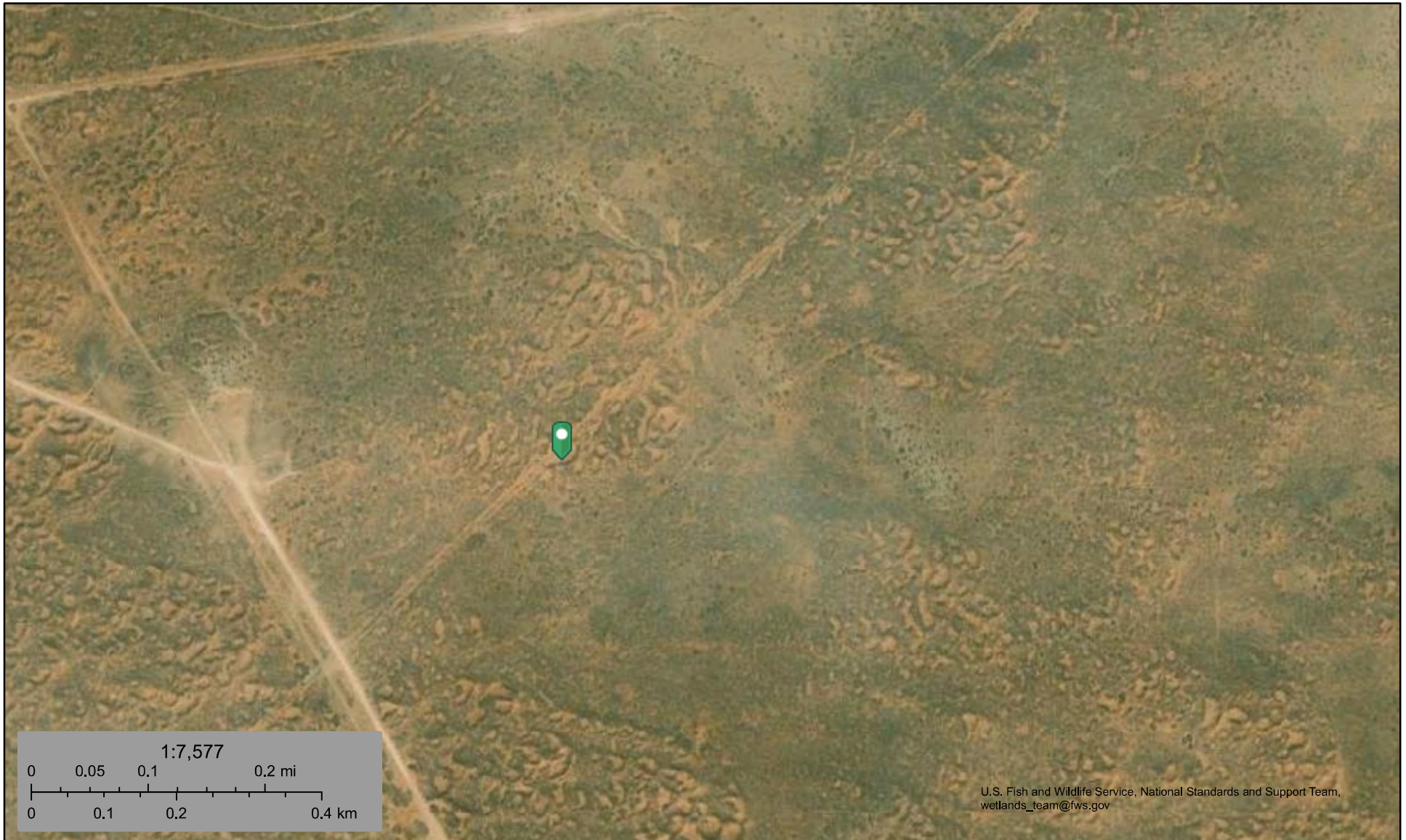
Mixed carbonate and evaporite rocks

Karstifiable rocks (potential karst aquifer)

Continuous carbonate rocks











Wetlands



U.S. Fish and Wildlife Service, National Standards and Support Team,
wetlands_team@fws.gov

August 19, 2022

Wetlands

	Estuarine and Marine Deepwater		Freshwater Emergent Wetland		Lake
	Estuarine and Marine Wetland		Freshwater Forested/Shrub Wetland		Other
			Freshwater Pond		Riverine

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

Attachment II NMOCD Correspondence

Daniel Dominguez

From: Daniel Dominguez
Sent: Monday, August 1, 2022 7:46 AM
To: 'Enviro, OCD, EMNRD'
Subject: Closure Sampling

We will be collecting additional closure samples at the 6" Santo Nino (nAPP2214330261) on Wednesday, August 3, 2022 at 7 am. This is our 48 hour notice.

Daniel Dominguez
Environmental Manager
Hungry Horse, LLC
(mobile) 575-408-3134
ddominguez@hungry-horse.com

Daniel Dominguez

From: Daniel Dominguez
Sent: Thursday, August 11, 2022 7:07 AM
To: 'Enviro, OCD, EMNRD'
Subject: Closure Samples

We will be collecting additional closure samples at the 6" Santo Nino (nAPP2214330261) on Monday, August 15, 2022 at 7 am. This is our 48 hour notice.

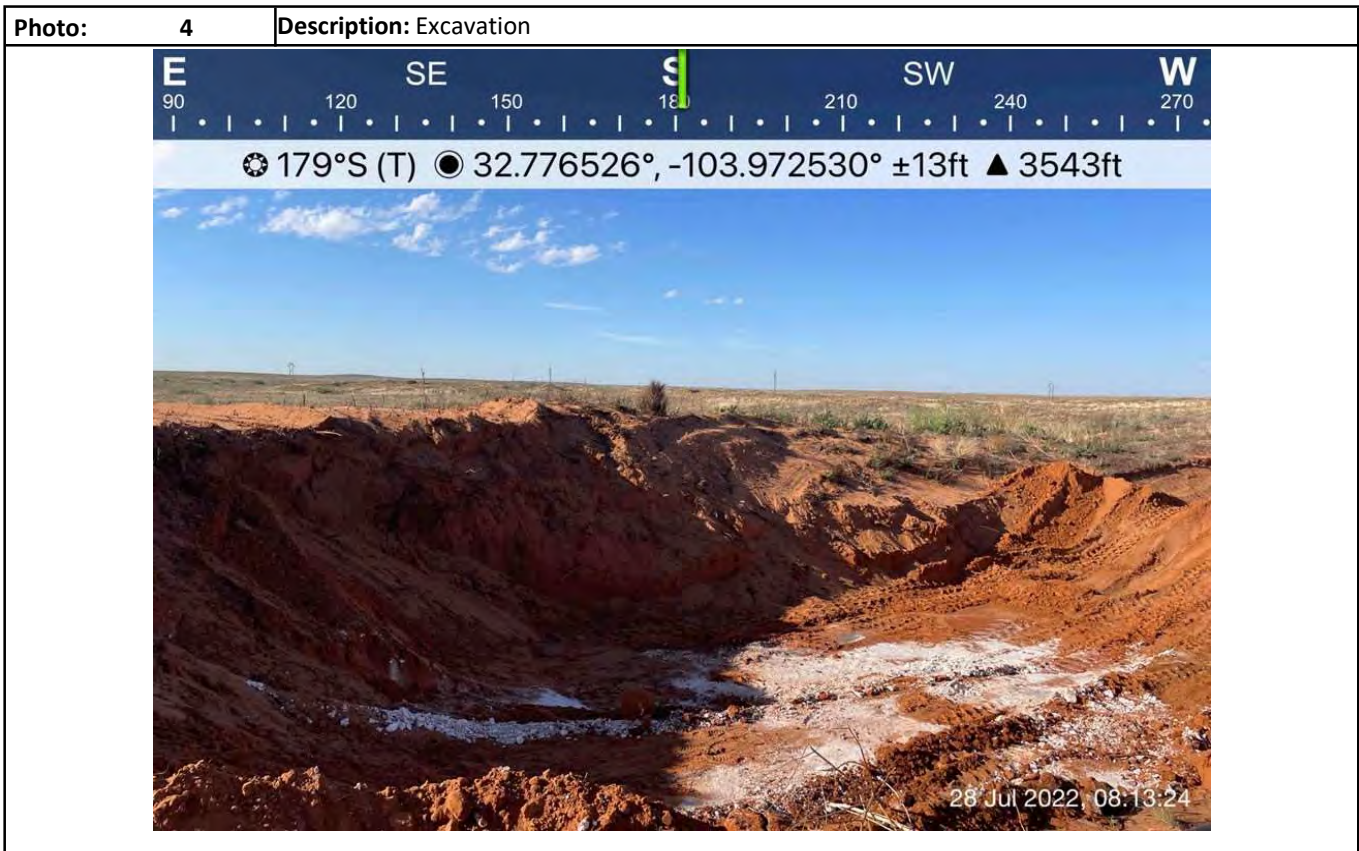
Daniel Dominguez
Environmental Manager
Hungry Horse, LLC
(mobile) 575-408-3134
ddominguez@hungry-horse.com

Attachment III Site Photographs

Photographs



Photographs



Photographs



Attachment IV

Depth to Groundwater



New Mexico Office of the State Engineer
Wells with Well Log Information

No wells found.

UTMNAD83 Radius Search (in meters):

Easting (X): 596222.53 Northing (Y): 3626973.7 Radius: 805

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/31/22 11:46 AM

WELLS WITH WELL LOG INFORMATION

Attachment V

Field Data

Hungry Horse, LLC

Sample Log

Date: 8/4/22Project: 6" Santo NinoLatitude: 32.776513Longitude: -103.97263Sampler: B Wells

Sample ID	Depth	PID/Odor	Chloride	GPS
HZ1 Surf		—	< 100	
1		—	< 100	
HZ2 Surf		—	< 100	
1'		—	< 100	
HZ3 Surf		~	2.0 = 50 x 4 = 200	
1'		—	< 100	
HZ4 Surf		—	< 100	
1'		—	< 100	
FL1		—	4.8 = 202 x 4 = 808	took 1' off down to Caliche
FL1A		—	< 100	
FL2		—	< 100	
SW1		—	3.0 = 88 x 4 = 352	Took 6" off wall
SW1A		—	2.4 = 60 x 4 = 240	
SW2		~	3.0 = 88 x 4 = 352	Took 6" off wall
SW2A		—	1.6 = 32 x 4 = 128	

Sample Point = SP1 @ ## etc

Floor = FL1 etc

Sidewall = SW1 etc

Horizontal = HZ1 etc

Refusal = SP1 @ 4'-R

GPS Sample Points, Center of Comp Areas

Test Trench = TT1 @ ##

Resamples = SP1b @ 5' or SW #1b

Stockpile = Stockpile #1

Date: 8/15/22

Sampler: B. Wells

Stockpile = Stockpile #1

Attachment VI

Laboratory Analytical Reports



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

August 10, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: 6" SANTO NINO

Enclosed are the results of analyses for samples received by the laboratory on 08/04/22 11:12.

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:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/04/2022	Sampling Date:	08/04/2022
Reported:	08/10/2022	Sampling Type:	Soil
Project Name:	6" SANTO NINO	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ H SEC 4 T18S - R30E		

Sample ID: HZ 1 - SURFACE (H223497-01)

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	08/09/2022	ND	1.95	97.3	2.00	1.08	
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596	
Total BTEX	<0.300	0.300	08/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/09/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 93.8 % 43-149

Surrogate: 1-Chlorooctadecane 93.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/04/2022
 Reported: 08/10/2022
 Project Name: 6" SANTO NINO
 Project Number: FRONTIER FIELD SERVICES
 Project Location: UL/ H SEC 4 T18S - R30E

Sampling Date: 08/04/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HZ 1 - 1' (H223497-02)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2022	ND	1.95	97.3	2.00	1.08		
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598		
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254		
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596		
Total BTX	<0.300	0.300	08/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/09/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 95.9 % 43-149

Surrogate: 1-Chlorooctadecane 94.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/04/2022
 Reported: 08/10/2022
 Project Name: 6" SANTO NINO
 Project Number: FRONTIER FIELD SERVICES
 Project Location: UL/ H SEC 4 T18S - R30E

Sampling Date: 08/04/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HZ 2 - SURFACE (H223497-03)

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	08/09/2022	ND	1.95	97.3	2.00	1.08		
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598		
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254		
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596		
Total BTEX	<0.300	0.300	08/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/09/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 93.9 % 43-149

Surrogate: 1-Chlorooctadecane 92.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/04/2022
 Reported: 08/10/2022
 Project Name: 6" SANTO NINO
 Project Number: FRONTIER FIELD SERVICES
 Project Location: UL/ H SEC 4 T18S - R30E

Sampling Date: 08/04/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HZ 2 - 1' (H223497-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2022	ND	1.95	97.3	2.00	1.08		
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598		
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254		
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596		
Total BTX	<0.300	0.300	08/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/09/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 43-149

Surrogate: 1-Chlorooctadecane 88.1 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
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 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/04/2022
 Reported: 08/10/2022
 Project Name: 6" SANTO NINO
 Project Number: FRONTIER FIELD SERVICES
 Project Location: UL/ H SEC 4 T18S - R30E

Sampling Date: 08/04/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HZ 3 - SURFACE (H223497-05)

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	08/09/2022	ND	1.95	97.3	2.00	1.08		
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598		
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254		
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596		
Total BTEX	<0.300	0.300	08/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	08/09/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	10.4	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 89.6 % 43-149

Surrogate: 1-Chlorooctadecane 89.2 % 42.5-161

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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/04/2022
 Reported: 08/10/2022
 Project Name: 6" SANTO NINO
 Project Number: FRONTIER FIELD SERVICES
 Project Location: UL/ H SEC 4 T18S - R30E

Sampling Date: 08/04/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HZ 3 - 1' (H223497-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2022	ND	1.95	97.3	2.00	1.08		
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598		
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254		
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596		
Total BTEX	<0.300	0.300	08/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	08/09/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 89.5 % 43-149

Surrogate: 1-Chlorooctadecane 87.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/04/2022
 Reported: 08/10/2022
 Project Name: 6" SANTO NINO
 Project Number: FRONTIER FIELD SERVICES
 Project Location: UL/ H SEC 4 T18S - R30E

Sampling Date: 08/04/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HZ 4 - SURFACE (H223497-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2022	ND	1.95	97.3	2.00	1.08		
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598		
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254		
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596		
Total BTEX	<0.300	0.300	08/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/09/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 91.6 % 43-149

Surrogate: 1-Chlorooctadecane 90.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/04/2022
 Reported: 08/10/2022
 Project Name: 6" SANTO NINO
 Project Number: FRONTIER FIELD SERVICES
 Project Location: UL/ H SEC 4 T18S - R30E

Sampling Date: 08/04/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: HZ 4 - 1' (H223497-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2022	ND	1.95	97.3	2.00	1.08		
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598		
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254		
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596		
Total BTEx	<0.300	0.300	08/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/09/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 92.4 % 43-149

Surrogate: 1-Chlorooctadecane 90.4 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/04/2022
 Reported: 08/10/2022
 Project Name: 6" SANTO NINO
 Project Number: FRONTIER FIELD SERVICES
 Project Location: UL/ H SEC 4 T18S - R30E

Sampling Date: 08/04/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 1 A (H223497-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2022	ND	1.95	97.3	2.00	1.08		
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598		
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254		
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596		
Total BTEx	<0.300	0.300	08/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/09/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 81.1 % 43-149

Surrogate: 1-Chlorooctadecane 79.0 % 42.5-161

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/04/2022
 Reported: 08/10/2022
 Project Name: 6" SANTO NINO
 Project Number: FRONTIER FIELD SERVICES
 Project Location: UL/ H SEC 4 T18S - R30E

Sampling Date: 08/04/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FL 2 (H223497-10)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	1.95	97.3	2.00	1.08	
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596	
Total BTX	<0.300	0.300	08/09/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	08/09/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 84.8 % 43-149

Surrogate: 1-Chlorooctadecane 84.5 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received: 08/04/2022
 Reported: 08/10/2022
 Project Name: 6" SANTO NINO
 Project Number: FRONTIER FIELD SERVICES
 Project Location: UL/ H SEC 4 T18S - R30E

Sampling Date: 08/04/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 1 A (H223497-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2022	ND	1.95	97.3	2.00	1.08		
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598		
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254		
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596		
Total BTEx	<0.300	0.300	08/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	08/09/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	150	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	108	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 96.1 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/04/2022	Sampling Date:	08/04/2022
Reported:	08/10/2022	Sampling Type:	Soil
Project Name:	6" SANTO NINO	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL/ H SEC 4 T18S - R30E		

Sample ID: SW 2 A (H223497-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/09/2022	ND	1.95	97.3	2.00	1.08		
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598		
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254		
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596		
Total BTEx	<0.300	0.300	08/09/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	08/09/2022	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	226	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	104	10.0	08/09/2022	ND					

Surrogate: 1-Chlorooctane 88.2 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

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

Company Name: Hungry Horse LLC										P.O. #: BILL TO										ANALYSIS REQUEST																																																	
Project Manager: Daniel Dominguez										Company: Frontier Field Services, LLC																																																											
Address: PO Box 1058										Attn: Amber Groves																																																											
City: Hobbs										State: NM										Zip: 88241																																																	
Phone #: 575 393-3386										Fax #:										Address: 47 Conoco Rd																																																	
Project #:										Project Owner: Frontier Field Services, LLC										City: Maljamar																																																	
Project Name: 6" Santo Nino										State: NM										Zip: 88264																																																	
Project Location: UL/H Sec 4 T18S - R30E										Phone #: 575-703-7992																																																											
Sampler Name: Bradley Wells										Fax #:																																																											
FOR LAB USE ONLY										PRESERV.										SAMPLING																																																	
Lab I.D. Sample I.D.										(G)RAB OR (C)OMP.																																																											
										# CONTAINERS																																																											
										GROUNDWATER																																																											
										WASTEWATER																																																											
										SOIL																																																											
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										OTHER :																																																											
										ACID/BASE:																																																											
										ICE / COOL																																																											
										OTHER :																																																											
										DATE										TIME																																																	
1										HZ1-Surf										G 1										8/4/22										X										X										X									
2										HZ1-1'										G 1										8/4/22										X										X										X									
3										HZ2-Surf										G 1										8/4/22										X										X										X									
4										HZ2-1'										G 1										8/4/22										X										X										X									
5										HZ3-Surf										G 1										8/4/22										X										X										X									
6										HZ3-1'										G 1										8/4/22										X										X										X									
7										HZ4-Surf										G 1										8/4/22										X										X										X									
8										HZ4-1'										G 1										8/4/22										X										X										X									
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Relinquished By: <i>[Signature]</i>										Date: 8/4/22										Time: 11:32										Received By: <i>[Signature]</i>																																							
Relinquished By:										Date:										Time:										Received By:																																							
Delivered By: (Circle One) <i>-0.3%</i>										Sample Condition										CHECKED BY: <i>[Signature]</i>																																																	
Sampler - UPS - Bus - Other: <i>-0.9% #113</i>										Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No										Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No																																																	
Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476																																																																					

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

August 18, 2022

DANIEL DOMINGUEZ

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: 6" SANTO NINO

Enclosed are the results of analyses for samples received by the laboratory on 08/15/22 15:22.

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,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/15/2022	Sampling Date:	08/15/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	6" SANTO NINO	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/ H SEC 4 T18S - R30E		

Sample ID: SW1B (H223721-01)

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	08/17/2022	ND	2.02	101	2.00	5.44	
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76	
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55	
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88	
Total BTEX	<0.300	0.300	08/17/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/17/2022	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	08/16/2022	ND	174	87.2	200	9.74	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	168	83.9	200	8.61	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 87.6 % 43-149

Surrogate: 1-Chlorooctadecane 89.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Hungry Horse Environmental
 DANIEL DOMINGUEZ
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

Received:	08/15/2022	Sampling Date:	08/15/2022
Reported:	08/18/2022	Sampling Type:	Soil
Project Name:	6" SANTO NINO	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL/ H SEC 4 T18S - R30E		

Sample ID: SW2B (H223721-02)

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	08/17/2022	ND	2.02	101	2.00	5.44		
Toluene*	<0.050	0.050	08/17/2022	ND	2.01	100	2.00	4.76		
Ethylbenzene*	<0.050	0.050	08/17/2022	ND	1.93	96.6	2.00	5.55		
Total Xylenes*	<0.150	0.150	08/17/2022	ND	6.01	100	6.00	5.88		
Total BTEx	<0.300	0.300	08/17/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/17/2022	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	08/16/2022	ND	174	87.2	200	9.74	
DRO >C10-C28*	<10.0	10.0	08/16/2022	ND	168	83.9	200	8.61	
EXT DRO >C28-C36	<10.0	10.0	08/16/2022	ND					

Surrogate: 1-Chlorooctane 81.1 % 43-149

Surrogate: 1-Chlorooctadecane 83.3 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. 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]

Attachment VII
NMOCD Form 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	nAPP2214330261
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 32.7765 Longitude -103.97261
(NAD 83 in decimal degrees to 5 decimal places)

Site Name 6" Santo Nino	Site Type Pipeline
Date Release Discovered 5/22/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
H	4	18S	30E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls) 0.78	Volume Recovered (bbls) 0
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf) 166.58	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
Poly pipeline failure at fuse.

Incident ID	nAPP2214330261
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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> 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: <u>Amber Groves</u>	Title: <u>Remediation Specialist</u>
Signature: 	Date: <u>5/22/2022</u>
email: <u>agroves@durangomidstream.com</u>	Telephone: <u>(575)703-7992</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>05/23/2022</u>



Gas Volume Release Report

NAPP2214330261

Gas Release Volume Calculator		
Date:	5/22/2022	
Site or Line Name:	6" Santo Nino/EOG Poly Pipe	
Area of hole in pipe:	0.5	square inches
Absolute Pressure:	60.7	psia - absolute pressure (psia = psig gauge pressure + 14.7)
Duration of Release:	60.00	minutes
Temperature:	65	Degrees F
Absolute Pressure:	60.7	psia (Gauge Pressure + 14.7)
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 - SCF	166.58	MSCF
Notes		
Entered by user		
Calculated Value		
Constant		



Liquid Volume Release Report

NAPP2214330261

Liquid Release Volume Calculator							
Date:	5/22/2022						
Site or Line Name:	6" Santo Nino/EOG						
Soil Type	Porosity	Length	Width	Depth (.083 per inch)	Cubic Feet	Estimated Barrels	Soil Type
Clay	0.15				0	0.00	Clay
Sandy Clay	0.12				0	0.00	Sandy Clay
Silt	0.16				0	0.00	Silt
Fine Sand	0.16	20	20	1	400	0.78	Fine Sand
Medium Sand	0.25				0	0.00	Medium Sand
Coarse Sand	0.26				0	0.00	Coarse Sand
Gravelly Sand	0.26				0	0.00	Gravelly Sand
Fine Gravel	0.26				0	0.00	Fine Gravel
Medium Gravel	0.20				0	0.00	Medium Gravel
Coarse Gravel	0.18				0	0.00	Coarse Gravel
Sandstone	0.25				0	0.00	Sandstone
Siltstone	0.18				0	0.00	Siltstone
Limestone	0.13				0	0.00	Limestone
Basalt	0.19				0	0.00	Basalt
Standing Liquids	X				0	0.00	Standing Liquids

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

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

Cubic Feet = L x W x D

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

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 109221

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 109221
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	5/23/2022

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Energy, Minerals and Natural Resources
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1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 140429

CONDITIONS

Operator: FRONTIER FIELD SERVICES, LLC 10077 Grogans Mill Rd. The Woodlands, TX 77380	OGRID: 221115
	Action Number: 140429
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	12/14/2022