

Remediation Summary and Closure Request

Frontier Field Services, LLC Mal 7-11-7 Lea County, New Mexico Unit Letter "J", Section 25, Township 18 South, Range 33 East Latitude 32.715770 North, Longitude 103.614959 West NMOCD Incident # nAPP2234336585

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

May 2023

Bradley Wells

Bradley Wells Project Manager bwells@hungry-horse.com

Daniel Domingue:

Environmental Manager ddominguez@hungry-horse.com

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Oil Conservation Division

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Incident ID	nAPP2234336585
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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	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?	🗌 Yes 🛛 No
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

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

Page 3

- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Received by OCD: 6/1	15/2023 2:52:44 PM State of New Mexico			Page 4 of 85
			Incident ID	nAPP2234336585
Page 4	Oil Conservation Division		District RP	
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regulations all operator public health or the en failed to adequately in addition, OCD accepta and/or regulations. Printed Name: Signature: email: gcarraso	the information given above is true and complete to the ors are required to report and/or file certain release not avironment. The acceptance of a C-141 report by the avestigate and remediate contamination that pose a thr ance of a C-141 report does not relieve the operator of Lupe Carrasco appe Carrasco co@durangomidstream.com	tifications and perform OCD does not relieve t reat to groundwater, sur f responsibility for com	corrective actions for rele he operator of liability sh face water, human health upliance with any other fe vironmental Special	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:	Jocelyn Harimon	Date: 06	/15/2023	

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Remediation Plan

<u>Remediation Plan Checklist</u>: 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: Lupe Carrasco Title: Sr. Environmental Specialist Signature: Lupe Carrasco Date: 6/15/23 email: gcarrasco@durangomidstream.com 575-725-0787 Telephone: **OCD Only** Received by: Jocelyn Harimon Date: 06/15/2023 Deferral Approved Approved Approved with Attached Conditions of Approval Denied Signature: Date:

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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.

<u>Closure Report Attachment Checklist</u>: 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	I 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	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulat restore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC Printed Name: Lupe Carrasco Signature: Lupe Carrasco	nediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title: Sr. Environmental Specialist Date:
email: gcarrasco@durangomidstream.com	Telephone: 575-725-0787
OCD Only	
Received by: Jocelyn Harimon	Date: 06/15/2023
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible r regulations.
Closure Approved by: <u>Nelson Velez</u> Printed Name: Nelson Velez	Date:09/15/2023
Printed Name: Nelson Velez	Title: Environmental Specialist - Adv

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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 J (NW/SE), Section 3, Township 18 South, Range 27 East, approximately thirteen miles southeast of Maljamar, in Lea County, New Mexico. The site is located on Bureau of Land Management land. 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 polyline; Latitude 32.715770 North, Longitude 103.614959 West. The Initial NMOCD Form C-141 indicated that on December 7, 2022 approximately 58.35 Mcf of natural gas were released due to a polyline failure. 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.

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
	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
undetermined	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 March 27, 2023, Hungry Horse conducted an initial site assessment consisting of photographing and mapping the excavated area. On March 28, and April 3, 2023, the excavated area was sampled. During the sampling event, four test trenches were advanced within the excavated area in an effort to determine the vertical extent of contamination. These sample locations are identified by SP designation. In addition, 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. During the advancement of the test trenches and soil bores, 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, sixteen representative soil samples, two from each sample location, were selected for laboratory analysis. Delineation soil samples SP1 through SP4, and HZ1 through HZ4, were 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, with the exception of SP3 and SP4, at Surface, which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

From April 4-11, 2023, the excavation was expanded. Excavated soil was temporarily stockpiled on site, atop plastic, before transport to an NMOCD approved disposal facility.

On April 13, 2023, nine composite confirmation soil samples were collected from the excavation floor and sidewalls, every 200 square feet and every 50 linear feet, respectively. Soil samples FL1 through FL5 and SW1 through SW4 were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples with the exception of FL3 at ten feet bgs and FL5 at four feet bgs, which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

On April 24, 2023, after the areas characterized by samples FL3 and FL5 were excavated further, two composite confirmation soil samples were collected. Soil samples FL3b at ten and half feet bgs and FL5b at four and half feet bgs, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX and chloride contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

The excavated area measured approximately sixty-three feet in length, eighteen feet in width, and four and a half to twelve feet in depth. During remediation activities approximately 312 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:

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 Mal 7-11-7 location, nAPP2234336585.

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

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Figures

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Figure 5	
untion Sampl	

Excavation Sample Map Frontier Field Services, LLC Mal 7-11-7 GPS: 32.71577, -103.614959 Lea County

		Le

Excavated Area



FL1 Composite Confirmation Sample Location



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Table

TABLE 1 Summary of Soil Sample Laboratory Analytical Results Frontier Field Services, LLC Mal 7-11-7

NMOCD Ref. #: nAPP2234336585	5
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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)
SP1	3/28/23	Surf	Excavated	<0.050	<0.300	<10.0	57.1	57.1	25.3	82.4	32.0
JFI	4/3/23	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP2	3/28/23	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	12.5	12.5	16.0
Jrz	4/3/23	10	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP3	3/28/23	Surf	Excavated	<0.050	<0.300	<100	12,900	12,900	4,060	16,960	96.0
353	4/3/23	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
SP4	3/28/23	Surf	Excavated	<0.050	<0.300	<100	20,000	20,000	8,470	28,470	96.0
JF4	4/3/23	4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ1	3/28/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
ΠΖΙ	3/28/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ2	3/28/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
ΠΖΖ	3/28/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ3	3/28/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
пдэ	3/28/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ4	3/28/23	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
Π24	3/28/23	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
FL1	4/13/23	6	In-Situ	<0.050	<0.300	<10.0	34.5	34.5	12.9	47.4	<16.0
FL2	4/13/23	6	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL3	4/13/23	10	Excavated	<0.050	<0.300	<10.0	118	118	42.8	160.8	96.0
FL3b	4/24/23	10.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL4	4/13/23	12	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL5	4/13/23	4	Excavated	<0.050	<0.300	<10.0	102	102	36.9	138.9	80.0
FL5b	4/24/23	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW1	4/13/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SW2	4/13/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SW3	4/13/23	2	In-Situ	<0.050	<0.300	<10.0	59.7	59.7	18.9	78.6	48.0
SW4	4/13/23	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
NMOCD Closure Criteria		10	50	_	-	N/A	-	100	600		

Attachment I Karst and Wetland Maps

Mal 7-11-7



4/28/2023 Karst Type



Low Resolution 15m Imagery High Resolution 60cm Imagery High Resolution 30cm Imagery Citations 150m Resolution Metadata



U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the U.S. National Park Service, AGI Karst Map of the US., Earthstar Geographics



U.S. Fish and Wildlife Service **National Wetlands Inventory**

Mal 7-11-7



May 2, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland Freshwater Pond

Freshwater Emergent Wetland

Lake Other Riverine

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

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Attachment II NMOCD Correspondence

Daniel Dominguez

From:	Amber Groves <agroves@durangomidstream.com></agroves@durangomidstream.com>
Sent:	Thursday, March 16, 2023 7:10 AM
То:	Daniel Dominguez
Subject:	FW: [EXTERNAL] nAPP2234336585 Mal 7-11 Extension Request

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Sent: Wednesday, March 8, 2023 10:34 AM
To: Amber Groves <AGroves@durangomidstream.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Subject: RE: [EXTERNAL] nAPP2234336585 Mal 7-11 Extension Request

Hello Amber

OCD approves your request for a 90-day extension to June 9, 2023 to submit a remediation plan or closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

From: Amber Groves <<u>AGroves@durangomidstream.com</u>>

Sent: Wednesday, March 8, 2023 10:25 AM

To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@emnrd.nm.gov</u>>; Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@emnrd.nm.gov</u>>; Velez, Nelson, EMNRD <<u>Nelson.Velez@emnrd.nm.gov</u>>;
 Cc: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>; Chad Frost <<u>Cfrost@durangomidstream.com</u>>
 Subject: [EXTERNAL] nAPP2234336585 Mal 7-11 Extension Request

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments. Good Morning,

Frontier Field Services would like to respectfully request a 90 day extension for nAPP2234336585. This is located on BLM property and we have yet to receive a response for ARCH clearance. Please feel free to give me a call should you have any questions.

Thank you,

Amber Groves |Sr. Environmental Specialist Mobile 575.703.7992



https://www.durangomidstream.com/ agroves@durangomidstream.com

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Daniel Dominguez

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Tuesday, April 11, 2023 8:46 AM
То:	Daniel Dominguez
Cc:	Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject:	RE: [EXTERNAL] Closure Samples

Daniel,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JΗ

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Daniel Dominguez <ddominguez@hungry-horse.com> Sent: Monday, April 10, 2023 2:55 PM To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> Subject: [EXTERNAL] Closure Samples

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

We will be collecting closure samples at the MAL 7-11-7 (nAPP2234336585) on Thursday 13, 2023, at 7 am. This is our 2 day notice.

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

Daniel Dominguez

From:	Enviro, OCD, EMNRD <ocd.enviro@emnrd.nm.gov></ocd.enviro@emnrd.nm.gov>
Sent:	Thursday, April 20, 2023 3:16 PM
То:	Daniel Dominguez
Cc:	Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject:	RE: [EXTERNAL] Closure Samples

Daniel,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JΗ

Jocelyn Harimon • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 1220 South St. Francis Drive | Santa Fe, NM 87505 (505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov http:// www.emnrd.nm.gov



From: Daniel Dominguez <ddominguez@hungry-horse.com> Sent: Thursday, April 20, 2023 5:57 AM To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> Subject: [EXTERNAL] Closure Samples

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

We will be collecting additional closure samples at the MAL 7-11-7 (nAPP2234336585) on Monday April 24, 2023, at 7 am. This is our 2 day notice.

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

Attachment III Site Photographs

















Attachment IV Depth to Groundwater



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

UTMNAD83 Radius Search (in meters):

No wells found.

Easting (X): 629803.27

Radius: 805

Northing (Y): 3620625.98

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, or suitability for any particular purpose of the data.

4/28/23 12:22 PM

WELLS WITH WELL LOG INFORMATION

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng X Y CP 01584 POD1 2 1 3 0 18S 34E 630654 3620788			(quarters are 1=NW 2 (quarters are smalles	· · · · · · · · · · · · · · · · · · ·	(NAD83 UTM in meters)	
Driller License: 1611 Driller Company: GOERTZEN DRILLING Driller Name: GOERTZEN, JOHN	Well Tag	POD Number		0	X Y	
Driller Name: GOERTZEN, JOHN	CP 01584 POD1	CP 01584 POD1	2 1 3 30	0 18S 34E	630654 3620788 😜	
		ense: 1611	Driller Company:	GOERTZEN	N DRILLING	
Drill Start Date: 04/05/2016 Drill Finish Date: 04/06/2016 Plug Date:	Driller Nan	ne: GOERTZEN, JO	DHN			
	Drill Start	Date: 04/05/2016	Drill Finish Date:	04/06/201	6 Plug Date:	
Log File Date:05/23/2017PCW Rcv Date:Source:	Log File Da	ote: 05/23/2017	PCW Rcv Date:		Source:	
Pump Type: Pipe Discharge Size: Estimated Yield:	Pump Type Casing Size		Pipe Discharge Siz Depth Well:	500 feet	Depth Water:	

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, or suitability for any particular purpose of the data.

4/28/23 12:27 PM

POINT OF DIVERSION SUMMARY
Attachment V Field Data

Sample Log

Date: 3/28/23

Project: Mal 7-11-7 Latitude: 32.71577

Hungry Horse, LLC

Longitude: -103.614959

Sampler: Eli Dominguez

Sample ID	Depth	PID/Odor		GPS
HZ 1-Surf	SUNF	N/A	<100	
HZ [-1'	(^L	NIA	1.8=43×4=172	
122-Surf	Surf	NIA	2.2=57×4=228	
122-11	1'	NIA	1.8=43×4=172	
12 3-Surf	SURF	N/A	< 100	
23-1	1'	NIA	2,4=65×4=260	
124-Surf	Surf	N/A	2.6=73x4=292	
124-1	r	NIA	2.2-57×4=228	
		1.000		
		1		

Floor = FL1 etc

Sidewall = SW1 etc

Refusal = SP1 @ 4'-R GPS Sample Points, Center of Comp Areas Test Trench = TT1 @ ## Resamples= SP1b @ 5' or SW #1b Stockpile = Stockpile #1

Sample Log

Date: 4/3/23

Project: Mal 7-11-7 Latitude: 32.71577

Hungry Horse, LLC

Longitude: -103.614959

Sampler: Eli Dominguez

SP 1 b' N/A $1.9 \times 43.4 \times 172$ SP 2 10' N/A $3.0 \times 92.4 \times 4 \times 368$ SP 3 12' N/A $3.0 \times 92.4 \times 4 \times 368$ SP 4 4' N/A $3.0 \times 92.4 \times 4 \times 368$ SP 4 4' N/A $3.0 \times 92.4 \times 4 \times 368$ SP 4 4' N/A $3.0 \times 92.4 \times 4 \times 368$ SP 4 4' N/A $3.0 \times 92.4 \times 4 \times 368$ SP 4 4' N/A $3.0 \times 92.4 \times 4 \times 368$ SP 4 4' N/A $3.0 \times 92.4 \times 4 \times 368$ SP 4 4' N/A $3.0 \times 92.4 \times 4 \times 368$ SP 4 4' N/A $3.0 \times 92.4 \times 4 \times 368$ SP 4 4' N/A $3.0 \times 92.4 \times 4 \times 368$ SP 4 4' 10.00000000000000000000000000000000000	Sample ID	Depth	PID/Odor	Chloride	GPS
SP-2 10' N/4 3.0=92×4=368 SF-3 12' N/4 3.2=102×4=408	SPI	6	N/A	1.8=43=472	
SF 3 12' N/A 3.7=102x4=408					
SF 3 12' N/A 3.7=102x4=408	SPA	10'	N/A	3.0=92×4=368	
	SP 3	12'	NIA	3,7= 07×4=408	
3P 4' N/A 3,0~29,2×u = 36,8 I I I I					
r Image: sector secto	5P 4	4'	IN/A	3,0=92,xy=368	
Image: style intermediateImage: style intermediate <td></td> <td></td> <td></td> <td></td> <td></td>					
Image: set of the					
Image: set of the					
And <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
Image: Section of the section of th					
Image: set of the					
Image: set of the					
Image: set of the					
Image: Section of the section of th					
Image: Second					
Image: Section of the section of th					
Image: Section of the section of th					
Image: Section of the section of th		1			
Image: Section of the section of th					
Image: Sector					

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Test Trench = TT1 @ ##

Floor = FL1 etc

Sidewall = SW1 etc

Refusal = SP1 @ 4'-R GPS Sample Points, Center of Comp Areas Resamples= SP1b @ 5' or SW #1b Stockpile = Stockpile #1

Attachment VI Laboratory Analytical Reports



April 03, 2023

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: MAL 7-11-7

Enclosed are the results of analyses for samples received by the laboratory on 03/29/23 15:35.

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 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: HZ 1 - SURF (H231449-01)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	32.0	16.0	03/31/2023	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	03/31/2023	ND	213	107	200	7.64	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: HZ 1 - 1' (H231449-02)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	<16.0	16.0	03/31/2023	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	03/30/2023	ND	213	107	200	7.64	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					
Surrogate: 1-Chlorooctane	79.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.6	% 49.1-14	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: HZ 2 - SURF (H231449-03)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	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	03/31/2023	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	03/30/2023	ND	213	107	200	7.64	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					
Surrogate: 1-Chlorooctane	90.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.7	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: HZ 2 - 1' (H231449-04)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	<16.0	16.0	03/31/2023	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	03/30/2023	ND	213	107	200	7.64	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					
Surrogate: 1-Chlorooctane	67.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: HZ 3 - SURF (H231449-05)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	<16.0	16.0	03/31/2023	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	03/31/2023	ND	213	107	200	7.64	
DRO >C10-C28*	<10.0	10.0	03/31/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	03/31/2023	ND					
Surrogate: 1-Chlorooctane	119 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: HZ 3 - 1' (H231449-06)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	<16.0	16.0	03/31/2023	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	03/30/2023	ND	213	107	200	7.64	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					
Surrogate: 1-Chlorooctane	91.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.3	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: HZ 4 - SURF (H231449-07)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	03/31/2023	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	03/30/2023	ND	213	107	200	7.64	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: HZ 4 - 1' (H231449-08)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	32.0	16.0	03/31/2023	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	03/30/2023	ND	213	107	200	7.64	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	<10.0	10.0	03/30/2023	ND					
Surrogate: 1-Chlorooctane	74.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SP 1 (H231449-09)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	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	32.0	16.0	03/31/2023	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	03/30/2023	ND	213	107	200	7.64	
DRO >C10-C28*	57.1	10.0	03/30/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	25.3	10.0	03/30/2023	ND					
Surrogate: 1-Chlorooctane	58.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	65.1	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SP 2 (H231449-10)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	03/31/2023	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	03/30/2023	ND	213	107	200	7.64	
DRO >C10-C28*	<10.0	10.0	03/30/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	12.5	10.0	03/30/2023	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SP 3 (H231449-11)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	96.0	16.0	03/31/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	03/30/2023	ND	213	107	200	7.64	
DRO >C10-C28*	12900	100	03/30/2023	ND	220	110	200	10.5	
EXT DRO >C28-C36	4060	100	03/30/2023	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	764	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/29/2023	Sampling Date:	03/28/2023
Reported:	04/03/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SP 4 (H231449-12)

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	03/31/2023	ND	2.07	104	2.00	3.89	
Toluene*	<0.050	0.050	03/31/2023	ND	2.12	106	2.00	4.18	
Ethylbenzene*	<0.050	0.050	03/31/2023	ND	2.18	109	2.00	3.95	
Total Xylenes*	<0.150	0.150	03/31/2023	ND	6.68	111	6.00	4.07	
Total BTEX	<0.300	0.300	03/31/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	96.0	16.0	03/31/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<100	100	03/30/2023	ND	204	102	200	3.97	
DRO >C10-C28*	20000	100	03/30/2023	ND	202	101	200	5.53	QM-07
EXT DRO >C28-C36	8470	100	03/30/2023	ND					
Surrogate: 1-Chlorooctane	98.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	735	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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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 whatscever 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 whose 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 whose share there applied by the services arise 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.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



OCD: 6/15/2023 2:52:44 PM

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Project Manage	er: Daniel Domi	nguez		-	-		-	-		P.0	. #:		ILL IU		+	1	1	1	ANA	LYSI	S RE	QUEST	r T		
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Lab I.D. 1231449		ole I.D.		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER	ICE / COOL	OTHER :	DATE	TIME	Chloride	TPH	BTEX 8021								
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e. In no event shall Car	dinal be liable for incidental or	consequental dama	ages, including with	ned wa	itation	ess made	e in write	ing an	d receiv	ed by C	ardina	I within 3	0 days after comp	pletion of the appl	cable										
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*	*	Time	31294	0	Y /	1	1.	0						Fax Result		□ Yes			Add'I F						

(Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Cool, Intact

Ves Yes

Received by OCD: 6/15/2023 2:52:44 PM

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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April 06, 2023

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: MAL 7-11-7

Enclosed are the results of analyses for samples received by the laboratory on 04/03/23 14:52.

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 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SP 1 - 6' (H231519-01)

BTEX 8021B	mg	/L	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 77.5-12	25						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/04/2023	ND	416	104	400	0.00	
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	04/04/2023	ND	170	85.0	200	12.9	
DRO >C10-C28*	<10.0	10.0	04/04/2023	ND	183	91.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	18						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SP 2 - 10' (H231519-02)

BTEX 8021B	mg/	′L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 77.5-12	5						
Chloride, SM4500Cl-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	04/04/2023	ND	416	104	400	0.00	
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	04/04/2023	ND	170	85.0	200	12.9	
DRO >C10-C28*	<10.0	10.0	04/04/2023	ND	183	91.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SP 3 - 12' (H231519-03)

BTEX 8021B	mg/	/L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 77.5-12	5						
Chloride, SM4500Cl-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	04/04/2023	ND	416	104	400	0.00	
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	04/04/2023	ND	170	85.0	200	12.9	
DRO >C10-C28*	<10.0	10.0	04/04/2023	ND	183	91.6	200	12.3	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	142	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/03/2023	Sampling Date:	04/03/2023
Reported:	04/06/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Shalyn Rodriguez
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SP 4 - 4' (H231519-04)

BTEX 8021B	mg	/L	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2023	ND	1.94	97.2	2.00	5.66	
Toluene*	<0.050	0.050	04/04/2023	ND	2.00	99.9	2.00	5.19	
Ethylbenzene*	<0.050	0.050	04/04/2023	ND	2.05	102	2.00	4.62	
Total Xylenes*	<0.150	0.150	04/04/2023	ND	6.21	104	6.00	3.78	
Total BTEX	<0.300	0.300	04/04/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 77.5-12	5						
Chloride, SM4500Cl-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	04/04/2023	ND	416	104	400	0.00	
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	04/04/2023	ND	209	105	200	6.65	
DRO >C10-C28*	<10.0	10.0	04/04/2023	ND	201	100	200	8.22	
EXT DRO >C28-C36	<10.0	10.0	04/04/2023	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Nam		Hungry Horse		-		-	_	-	-	-		Ē	B	ILL TO		1	-			ΔΝ	ALYSI	S RE	OUE	T			G
Project Manage	er:	Daniel Doming	uez				-		-	-	P.C	. #:	-			+	1	T	T			J KL	QUE.		-	1	
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Project Name:	Mal	7-11-7			-			-	-			te: N	IM	Zip: 882	64												
Project Locatio	on:	UL/ J Sec 25 T	18S - R33	BE			-	-	-		-	_		5-703-799										1			
Sampler Name:	:	Eli Dominguez			_	-	-		-	-	Fax	-				1											
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PLEASE NOTE: Liability an inalyses. All claims includin ervice. In no event shall Ca iffiliates or successors arisin Delipopution bood Bo	ardinal be ng out of a	liable for incidental or con	nsequental dam nce of services l	ages, including with hereunder by Cardi	ned wa	itation	less mad	e in wr	ting an	d recei	ved by	Cardina	I within	30 days after com	pletion of the appli	cable		-	-	-			-		1	-	-
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Received by OCD: 6/15/2023 2:52:44 PM † Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476 \sim



April 19, 2023

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: MAL 7-11-7

Enclosed are the results of analyses for samples received by the laboratory on 04/13/23 14:11.

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 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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: FL 1 (H231781-01)

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	04/19/2023	ND	2.00	99.9	2.00	1.54	
Toluene*	<0.050	0.050	04/19/2023	ND	2.10	105	2.00	2.27	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.40	107	6.00	1.05	
Total BTEX	<0.300	0.300	04/19/2023	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	<16.0	16.0	04/19/2023	ND	432	108	400	0.00	
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	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	34.5	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	12.9	10.0	04/18/2023	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: FL 2 (H231781-02)

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	04/19/2023	ND	2.00	99.9	2.00	1.54	
Toluene*	<0.050	0.050	04/19/2023	ND	2.10	105	2.00	2.27	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.40	107	6.00	1.05	
Total BTEX	<0.300	0.300	04/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	48.0	16.0	04/19/2023	ND	432	108	400	0.00	
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	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: FL 3 (H231781-03)

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	04/19/2023	ND	2.00	99.9	2.00	1.54	
Toluene*	<0.050	0.050	04/19/2023	ND	2.10	105	2.00	2.27	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.40	107	6.00	1.05	
Total BTEX	<0.300	0.300	04/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 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	96.0	16.0	04/19/2023	ND	432	108	400	0.00	
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	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	118	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	42.8	10.0	04/18/2023	ND					
Surrogate: 1-Chlorooctane	94.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: FL 4 (H231781-04)

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	04/19/2023	ND	2.00	99.9	2.00	1.54	
Toluene*	<0.050	0.050	04/19/2023	ND	2.10	105	2.00	2.27	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.40	107	6.00	1.05	
Total BTEX	<0.300	0.300	04/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 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	48.0	16.0	04/19/2023	ND	432	108	400	0.00	
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	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: FL 5 (H231781-05)

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	04/19/2023	ND	2.00	99.9	2.00	1.54	
Toluene*	<0.050	0.050	04/19/2023	ND	2.10	105	2.00	2.27	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.40	107	6.00	1.05	
Total BTEX	<0.300	0.300	04/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	80.0	16.0	04/19/2023	ND	432	108	400	0.00	
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	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	102	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	36.9	10.0	04/18/2023	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SW 1 (H231781-06)

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	04/19/2023	ND	2.00	99.9	2.00	1.54	
Toluene*	<0.050	0.050	04/19/2023	ND	2.10	105	2.00	2.27	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.40	107	6.00	1.05	
Total BTEX	<0.300	0.300	04/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 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	32.0	16.0	04/19/2023	ND	432	108	400	0.00	
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	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SW 2 (H231781-07)

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	04/19/2023	ND	2.00	99.9	2.00	1.54	
Toluene*	<0.050	0.050	04/19/2023	ND	2.10	105	2.00	2.27	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.40	107	6.00	1.05	
Total BTEX	<0.300	0.300	04/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	16.0	16.0	04/19/2023	ND	432	108	400	0.00	
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	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					
Surrogate: 1-Chlorooctane	108	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SW 3 (H231781-08)

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	04/19/2023	ND	2.00	99.9	2.00	1.54	
Toluene*	<0.050	0.050	04/19/2023	ND	2.10	105	2.00	2.27	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.40	107	6.00	1.05	
Total BTEX	<0.300	0.300	04/19/2023	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	48.0	16.0	04/19/2023	ND	432	108	400	0.00	
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	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	59.7	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	18.9	10.0	04/18/2023	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

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:	04/13/2023	Sampling Date:	04/13/2023
Reported:	04/19/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: SW 4 (H231781-09)

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	04/19/2023	ND	2.00	99.9	2.00	1.54	
Toluene*	<0.050	0.050	04/19/2023	ND	2.10	105	2.00	2.27	
Ethylbenzene*	<0.050	0.050	04/19/2023	ND	2.06	103	2.00	1.19	
Total Xylenes*	<0.150	0.150	04/19/2023	ND	6.40	107	6.00	1.05	
Total BTEX	<0.300	0.300	04/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	16.0	16.0	04/19/2023	ND	432	108	400	0.00	
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	04/18/2023	ND	194	96.8	200	8.37	
DRO >C10-C28*	<10.0	10.0	04/18/2023	ND	181	90.5	200	13.0	
EXT DRO >C28-C36	<10.0	10.0	04/18/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

			FAX (575) 393-24	76	_			_	-	-	_	DI	1 10	- 1	-				ANAL	YSIS	REC	UES	Г			
Company Nan		Hungry Horse L			_			_	+	2.0.		BIL	LTO	-	-											
Project Manag	ger:	Daniel Domingu	lez		-	_	-	_					tier Field So	vices 11C												- L
Address: P	OB	ox 1058			_	_		_	-		_		ntier Field Ser	vices, LLC												
City: Hobb	S		State: NM	Zi	p:	8824	1	_	_	Attn:	-	ad F														
Phone #: 5	75 3	93-3386	Fax #:		4				Address: 47 Conoco Rd																	
Project #:	-		Project Owner:	From	ntier	Field S	Service	es, L	_	City:	-	aljam														
Project Name	: 1	Nal 7-11-7								State			Zip: 88264													
Project Locat	_	UL/ J Sec 25 T	JL/ J Sec 25 T18S - R33E						1	Phor	ne #:	575	-703-7992													
Sampler Nam	-	Bradley Wells							1	Fax																
FOR LAB USE ONLY	_						MAT	RIX	-	Р	RES	RV.	SAMPLI	NG												
Lab I.D.		Sampl	e I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	OTHER :	ICE / COOL	OTHER :	DATE	TIME	Chloride	ТРН	BTEX 8021									
MODI A		FL1		C	1		X			T	X		4/13/23		X	X	X		-		-	-	-	-		-
	2			C	1		X				X		4/13/23		X	X	X		-			-	-			-
	3			C	1		X				X		4/13/23	1	X	X	X	-	-	-	-	-	-		-	-
	4			C	1		X				X		4/13/23		X	X	X	-	-	-	-	-	-		-	-
	-	FL5		c	1		X				X		4/13/23		X	X	X	-	-	-	-	-	-			+-
-	<u> </u>	SW1		C	1		X				>		4/13/23		X	X	X	-	-	-	-	+	-		-	+
	× I	SW2		C	1		X				>		4/13/23		X	X	X	-	-	-	-	-	-		-	-
	-	SW3		C	1		X				>	(4/13/23	-	X	X	X	-	-	-	-	-	+			+
	-	SW4		С	1		X)	(4/13/23		X	X	X	+	+	-	-	+	-			-
analyses. All claims in service. In no event st affiliates or successor Relinquisher Relinquisher Delivered	ncludin hall Ca s arisin d By d By	g those for negligence and any rdinal be liable for incidental or g out of or related to the perform	and client's exclusive remedy for an other cause whatsoever shall be a consequental damages, including mance of services hersunder by C $\frac{Date:}{4/13/23}$ Time: 1/4-11 Date: Time: 2.9 c/2.	R R R	ece ece	on, busin ess of we ved t ived t	ess intern ether su By:	e Co	s, loss o m is ba	of use, of sed upo	or loss of on any of	f profits (the ab	KED BY: tials)	its subsidiaries,	RKS:		es [pm@				n	om				

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Received by OCD: 6/15/2023 2:52:44 PM

12 12 of



April 27, 2023

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: MAL 7-11-7

Enclosed are the results of analyses for samples received by the laboratory on 04/24/23 16:13.

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 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.

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. Keine

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:	04/24/2023	Sampling Date:	04/24/2023
Reported:	04/27/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: FL 3 B - 10.5' (H231989-01)

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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTEX	<0.300	0.300	04/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	144	16.0	04/26/2023	ND	432	108	400	0.00	
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	04/25/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					
Surrogate: 1-Chlorooctane	57.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	61.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	04/24/2023	Sampling Date:	04/24/2023
Reported:	04/27/2023	Sampling Type:	Soil
Project Name:	MAL 7-11-7	Sampling Condition:	Cool & Intact
Project Number:	FRONTIER FIELD SERVICES	Sample Received By:	Tamara Oldaker
Project Location:	UL / J SEC 25 T18S - R33E		

Sample ID: FL 5 B - 4.5' (H231989-02)

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	04/26/2023	ND	2.14	107	2.00	4.38	
Toluene*	<0.050	0.050	04/26/2023	ND	2.15	107	2.00	3.88	
Ethylbenzene*	<0.050	0.050	04/26/2023	ND	2.17	109	2.00	3.28	
Total Xylenes*	<0.150	0.150	04/26/2023	ND	6.60	110	6.00	2.15	
Total BTEX	<0.300	0.300	04/26/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	′kg	Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/26/2023	ND	432	108	400	0.00	
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	04/25/2023	ND	205	103	200	0.769	
DRO >C10-C28*	<10.0	10.0	04/25/2023	ND	200	100	200	0.0889	
EXT DRO >C28-C36	<10.0	10.0	04/25/2023	ND					
Surrogate: 1-Chlorooctane	58.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company N	ame:	Hungry Horse	6 FAX (575) 393	-	-	-		-	-	T	-	-	DI	11 70		-		_	_	_							
Project Mar	ager:	Daniel Doming	juez						-	BILL TO						ANALYSIS REQUEST										-	
Address:	PO Box				-	-	-			Company Frontier Field Services, LLC					1												
City: Hol	obs		State: NM		Zip:	188	2011				_	1			ervices, LLC												
hone #:	575 393	3-3386	Fax #:	1.	-ip.	100	241		_	-	ttn:	-	_	Frost													
roject #:			Project Owner:	En				-	_	-		Conoco R	d														
roject Nam							-	-	Malj																		
Project Location: UL/ J Sec 25 T18S - R33E							+		NM	_	Zip: 8826					1											
	ampler Name: Daniel Dominguez							Pł	none	e #: 5	575	-703-7992	2	1													
FOR LAB USE ON	_	Damer Doming	uez	-	_	_	_	_	_	Fa	x #:					1											
				d.			M	ATR	IX	T	PR	ESER	V.	SAMPLI	NG	1											
Lab I.D.	9	Sampl	e I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	Nanto	DATE	TIME	Chloride	трн	BTEX 8021									
	2	b-10.5'		С	1		>	_	1			X		4/24/23	TIME				-	-	-	-					
	FL5	b-4.5'		C	1		>	-				x		4/24/23		X	X	X	-	-	-	-					ſ
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SE NOTE: Liabilit	and Damage	es. Cardinal's liability and o	client's exclusive remedy for any or cause whatsoever shall be de-	claim aris	ing whe	ether b	ased in	Contra															1.7			-	-
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inquished	By:	related to the performance	Date:	Doo				h claim	is bas	ed upo	n any o	of the ab	ove st	tated reasons or	otherwise.												
al X	~ ~	~	Time: 1124	}		1				1	1	11	1		hone Result:		Yes Yes		No No	Add'l P Add'l F	hone #:			_			_
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elivered B mpler - UPS		011	/	#113		Co	nple ol Yes No	ntac	Yes			HECK (Init	ials				c	frost@	2)dura	ngomi	dstream	m.com	1				

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Attachment VII NMOCD Form Initial C-141

Received by OCD: 6/15/2023 2:52:44 PM

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

Page 82 of 85

Incident ID	nAPP2234336585
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 32.7156866

Longitude -103.6156866 (NAD 83 in decimal degrees to 5 decimal places)

Site Name Mal 7-11-7	Site Type Pipeline
Date Release Discovered 12/7/2022	API# (if applicable)

Unit	Letter	Section	Township	Range	County
	J	25	18S	33E	Lea

Surface Owner: State Federal Tribal Private (Name:

Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🛛 Natural Gas	Volume Released (Mcf) 58.35	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Poly line weld failure. Underground pipeline release with soil impact.

and the second se	23 2:52:44 pMate of New Mexico	Incident ID	nAPP2234336589ge 83 of
Page 2	Oil Conservation Division	District RP	
		Facility ID	
	Application ID	-	
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible par	ty consider this a major release	
	Initial Response		

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

The source of the release has been stopped.

It impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

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

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

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

Printed Name: Amber Groves	Title: <u>Remediation Specialist</u>
Signature:	Date: <u>12/9/2022</u>
email:agroves@durangomidstream.com	Telephone: <u>(575)703-7992</u>
OCD Only	
Received by: Jocelyn Harimon	Date: 12/9/2022



	Gas Release Vo	lume Calculat	or		
Date:	12/7/2022				
Site or Line Name:			MAL -7-11-7		
Area of hole in pipe:	0.25		square inches		
Absolute Pressure:	52	psia - a	absolute pressure (psia = psig gauge pressure + 14.7)		
Duration of Release:	60.00		minutes		
Temperature:	90		Degrees F		
Absolute Pressure:	52	100	psia (Gauge Pressure + 14.7)		
Representative Gas Analysis	Contraction of the second	Please attach o	r email a representative gas analysis		
Constants					
Temperature at standard conditions:	60	Deg. F			
Pressure at standard conditions:	14.7	PSIA			
Volume of Gas - SCF	58.35	MSCF			

Notes	
Entered by user	
Calculated Value	-
Constant	C. Sall

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

Operator:	OGRID:
FRONTIER FIELD SERVICES, LLC	221115
10077 Grogans Mill Rd.	Action Number:
The Woodlands, TX 77380	228862
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	9/15/2023

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Action 228862