

Incident ID	nAB1922539866
District RP	2RP-5581
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>45 Ft.</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Oil Conservation Division

Incident ID	NAB1922539866
District RP	
Facility ID	
Application ID	

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: Dakota Neel Title: HSE Coordinator
Signature:  Date: 09/15/2020
email: dneel2@concho.com Telephone: 575-746-2010

OCD Only

Received by: Cristina Eads Date: 09/16/2020

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

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

Printed Name: Dakota Neel Title: HSE Coordinator
 Signature:  Date: 09/15/2020
 email: dneel2@concho.com Telephone: 575-746-2010

OCD Only

Received by: Cristina Eads Date: 09/16/2020

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 11/20/2020

Site Characterization Report and Deferral Request

COG Operating, LLC Wild Ride Federal #001H

Eddy County, New Mexico
Unit Letter E, Section 29, Township 26 South, Range 25 East
Latitude 32.01648 North, Longitude 104.42426 West
NMOCD Reference No. nAB1922539866

Prepared By:

Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260



Lance Crenshaw



Joel W. Lowry



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1.0 PROJECT INFORMATION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of COG Operating, LLC, has prepared this Site Characterization Report and Deferral Request for the Release Site known as the Wild Ride Federal #001H. Details of the release are summarized below:

Location of Release Source				
Latitude: <u>32.01648</u>		Longitude: <u>-104.42426</u>		
Provided GPS are in WGS84 format.				
Site Name: <u>Wild Ride Federal #001H</u>		Site Type: <u>Tank Battery</u>		
Date Release Discovered: <u>7/22/2019</u>		API # (if applicable): <u>30-015-36678</u>		
Unit Letter	Section	Township	Range	County
E	29	26S	25E	Eddy
Surface Owner: <input type="checkbox"/> State <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Tribal <input type="checkbox"/> Private (Name _____)				
Nature and Volume of Release				
<input type="checkbox"/> Crude Oil	Volume Released (bbls)		Volume Recovered (bbls)	
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <u>33</u>		Volume Recovered (bbls) <u>31</u>	
	Is the concentration of total dissolved solids (TDS) in the produced water > 10,000 mg/L?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released		Volume/Weight Recovered	
Cause of Release: The release was attributed to lightning striking the water tank. The release was confined to within the lined containment.				
Initial Response				
<input checked="" type="checkbox"/> The source of the release has been stopped.				
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.				
<input checked="" type="checkbox"/> Release materials have been contained via the use of berms or dikes, absorbent pad, or other containment devices				
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.				

Previously submitted portions of the NMOCD Form C-141 are available on the NMOCD Imaging System.

2.0 SITE CHARACTERIZATION

A search of groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) was conducted in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site.

Probable groundwater depth was determined using data generated by numeric models based on available water well data, published information, geology and topography. The change in elevation between the Site and the nearest USGS well west of the Site and the natural drainage north of the Site where groundwater is not outcropping was considered to assist in the determination. Additionally, the Site is located within the Castille Formation; logs from water wells in the vicinity suggest that they were completed within alluvial deposits. Depth to groundwater information is provided as Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	> 45 Ft.	
Did the release impact groundwater or surface water?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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Did the release impact areas not on an exploration, development, production or storage site?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figures 1 & 2.

3.0 CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE

Based on the volume and nature of the release, inferred depth to groundwater and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	Constituent	Method	Limit
> 45 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	N/A mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

4.0 INITIAL INVESTIGATION

During initial response activities the affected tank and impacted gravel was removed from within the lined tank battery containment. Upon removing the affected gravel a liner inspection was conducted. During the liner inspection it was determined that the liner was intact, with the exception of three (3) areas on the firewall inferred to have been melted by the subject fire above the high water mark.

On August 10, 2020, eTech revisited the Site. During the site visit, access holes were cut into the liner to allow for the advancement of hand-augered soil bores on the west and east sides of the lined tank battery containment. During the advancement of the hand-augered soil bores, four (4) soil samples (8.10 SP1 @ Surface, 8.10 SP1 @ 1', 8.10 SP2 @ Surface, and 8.10 SP2 @ 1') were collected. In addition, a hand-augered soil bore (8.10 SP3) was advanced within the lined containment in an area that was inferred to have been melted by the subject fire. During the advancement of the hand-augered soil bore, two (2) soil samples (8.10 SP3 @ Surface and 8.10 SP3 @ 1') were collected. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil samples 8.10 SP1 @ Surface and 8.10 SP3 @ Surface, which exhibited chloride concentrations of 1,170 mg/kg and 1,450 mg/kg, respectively. Laboratory analytical results indicated soil was not impacted above the NMOCD Closure Criteria for chloride beyond 1 Ft. bgs in the areas characterized by sample points 8.10 SP1 and 8.10 SP3.

A "Site & Sample Location Map" is provided as Figure 3. A "Soil Chemistry Table" is provided as Table 1. Laboratory Analytical Reports are provided in Appendix C. Field data and soil profile logs, if applicable, are provided as Appendix B.

5.0 DEFERRAL REQUEST

Based on laboratory analytical results and field observations, COG requests NMOCD approval to defer remediation of impacted soil affected above the NMOCD Closure Criteria beneath the lined tank battery facility. COG maintains remediation of impacted soil affected above the NMOCD Closure Criteria beneath the lined tank battery facility may pose a risk to human health and safety and would result in a major facility deconstruction. Remediation of impacted soil affected above the NMOCD Closure Criteria remaining in-situ beneath the lined tank battery facility will be completed upon abandoning and decommissioning the facility.

6.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

The release was limited to an active tank battery facility on a production pad. Final reclamation and re-vegetation will be conducted in accordance with NMAC 19.15.29.13 upon decommissioning the facility.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc., has prepared this Site Characterization Report and Deferral Request to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents reference in the report and on oral statements made by certain individuals. Basis has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared the report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech 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.

This report has been prepared for the benefit of COG Operating, LLC. Use of the information contained in this report is prohibited within the consent of Etech and/or COG Operating, LLC.

8.0 DISTRIBUTION

COG Operating, LLC

*600 West Illinois Avenue
Midland, TX 79701*

New Mexico Energy, Minerals and Natural Resources Department

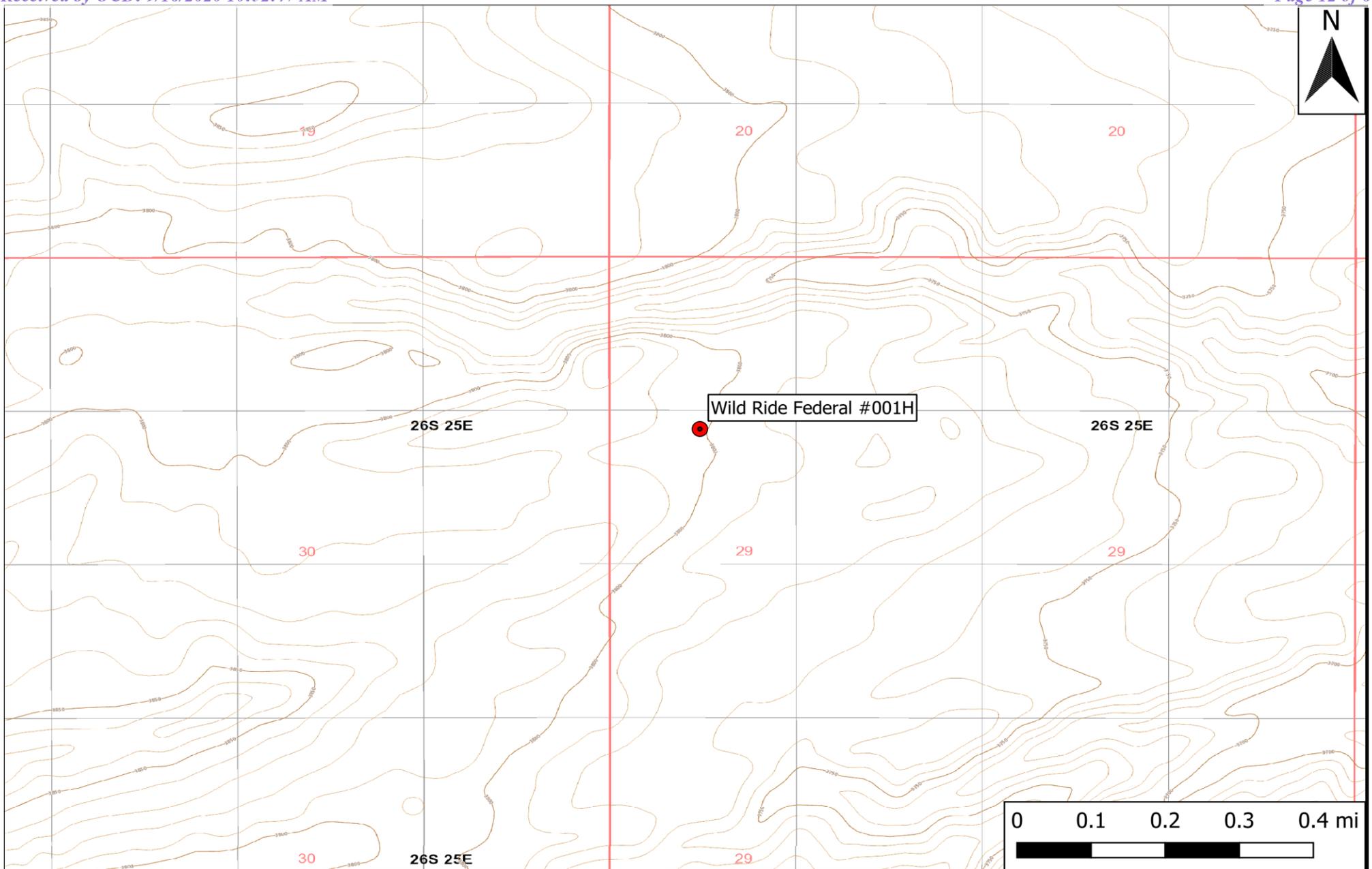
*Oil Conservation Division, District 2
811 S. First Street
Artesia, NM 88210*

United States Department of the Interior

*Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220*

(Electronic Submission)

Figure 1 Topographic Map



Legend
● Site Location

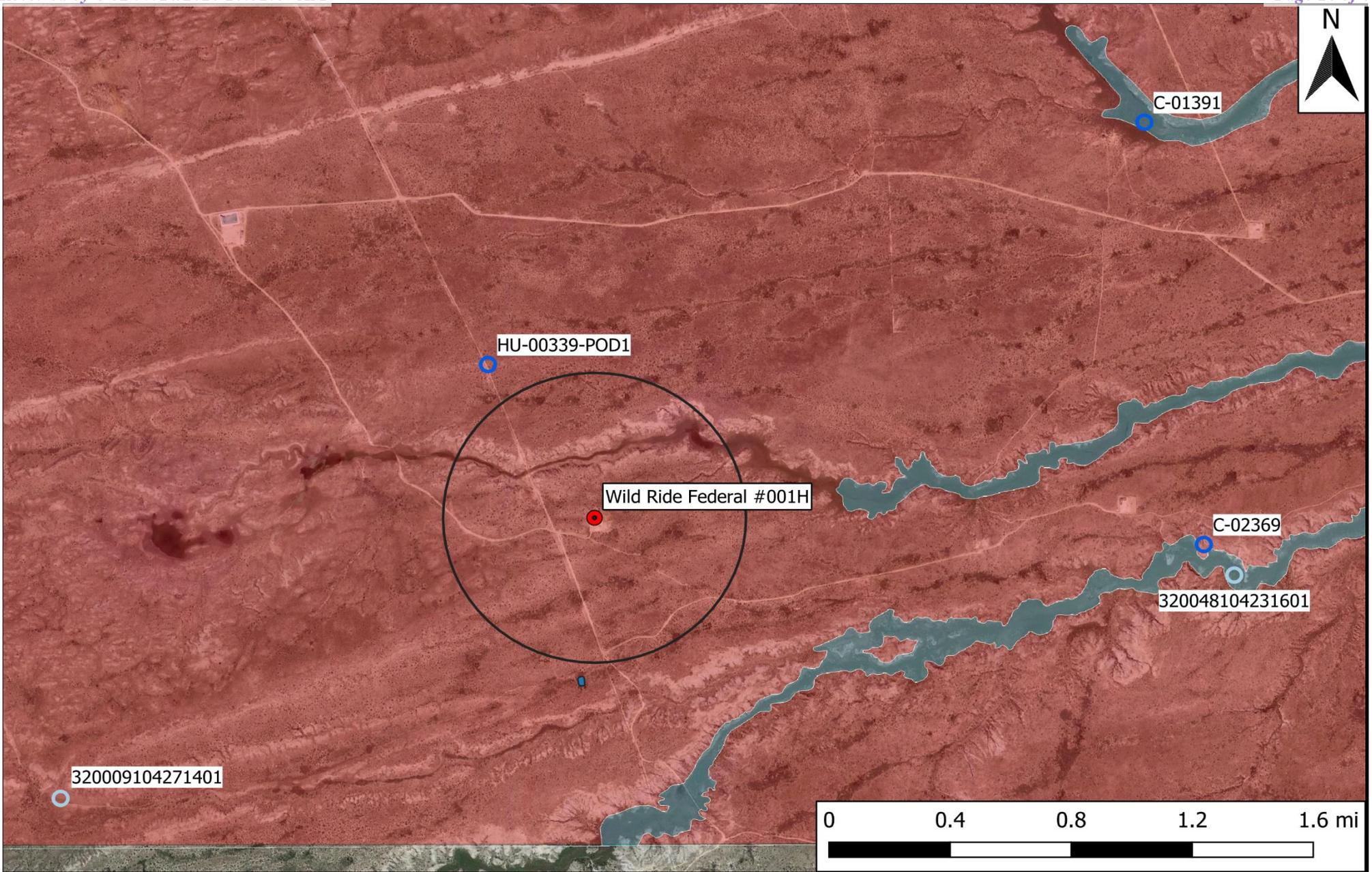
Figure 1
Topographic Map
COG Operating, LLC
Wild Ride Federal #001H
GPS: 32.01648, -104.42426
Eddy County



Drafted: mag Checked: jwl Date: 8/19/20

Figure 2

Aerial Proximity Map



Legend	
● Site Location	 Well - USGS
 0.5 Mi Radius	 Well - NMOSE
 1% Annual Flood Chance	 High Karst
 Surface Water	 Medium Karst
 Potash Mine Workings	

Figure 2
 Aerial Map
 COG Operating, LLC
 Wild Ride Federal #001H
 GPS: 32.01648, -104.42426
 Eddy County

eTECH
Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 8/19/20

Figure 3
Site and Sample Location Map



Legend:

	Sample Point
---	--------------

Figure 3
Site and Sample Location Map
COG Operating, LLC
Wild Ride Federal #001H
GPS: 32.01648, -104.42426
Eddy County

eTECH 
Environmental & Safety Solutions, Inc.

Drafted: Checked: jwl Date: 8/28/20

Table 1
Concentrations of BTEX, TPH, and/or Chloride in Soil

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
COG Operating, LLC
Wild Ride Federal #001H
NMOCD Ref. #: nAB1922539866

Sample ID	Date	Depth	Soil Status	SW 846 8021B		SW 846 8015M Ext.					4500 Cl
				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)
8.10 SP1 @ Surface	8/10/2020	0'	In-Situ	<0.00202	0.00835	<49.8	<49.8	<49.8	<49.8	<49.8	1,170
8.10 SP1 @ 1'	8/10/2020	1'	In-Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	581
8.10 SP2 @ Surface	8/10/2020	0'	In-Situ	<.00198	0.00635	<50.0	<50.0	<50.0	<50.0	<50.0	13.1
8.10 SP2 @ 1'	8/10/2020	1'	In-Situ	0.00255	0.01040	<49.9	<49.9	<49.9	<49.9	<49.9	58.3
8.10 SP3 @ Surface	8/10/2020	0'	In-Situ	<0.00199	0.00529	<49.9	<49.9	<49.9	<49.9	<49.9	1,450
8.10 SP3 @ 1'	8/10/2020	1'	In-Situ	<0.00199	0.00479	<50.0	<50.0	<50.0	<50.0	<50.0	14.0
Closure Criteria				10	50	-	-	N/A	-	100	600

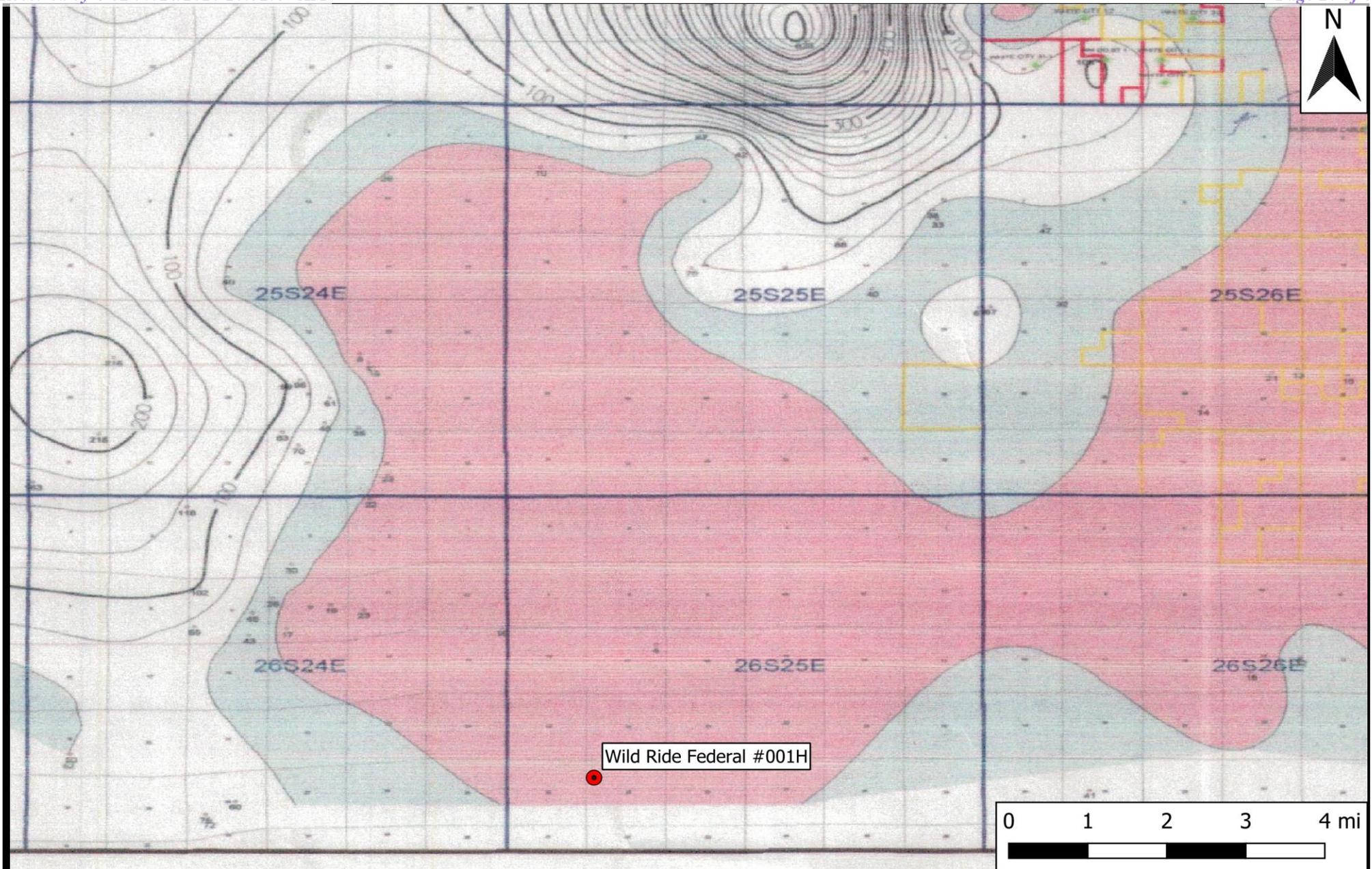
NOTES:

- =

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

Appendix A

Depth to Groundwater Information



Legend
● Site Location

Figure 4
Inferred Depth to Groundwater Trend Map
COG Operating, LLC
Wild Ride Federal #001H
GPS: 32.01648, -104.42426
Eddy County

eTECH
Environmental & Safety Solutions, Inc.



Drafted: mag Checked: jwl Date: 8/19/20



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
HU 00339 POD1		HU	DA	4	4	4	21	26S	05E	553806	3543254	1019	520	376	144

Average Depth to Water: **376 feet**
 Minimum Depth: **376 feet**
 Maximum Depth: **376 feet**

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 554372.39

Northing (Y): 3542407.21

Radius: 1610

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

8/19/20 1:16 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
 (quarters are smallest to largest) (NAD83 UTM in meters)

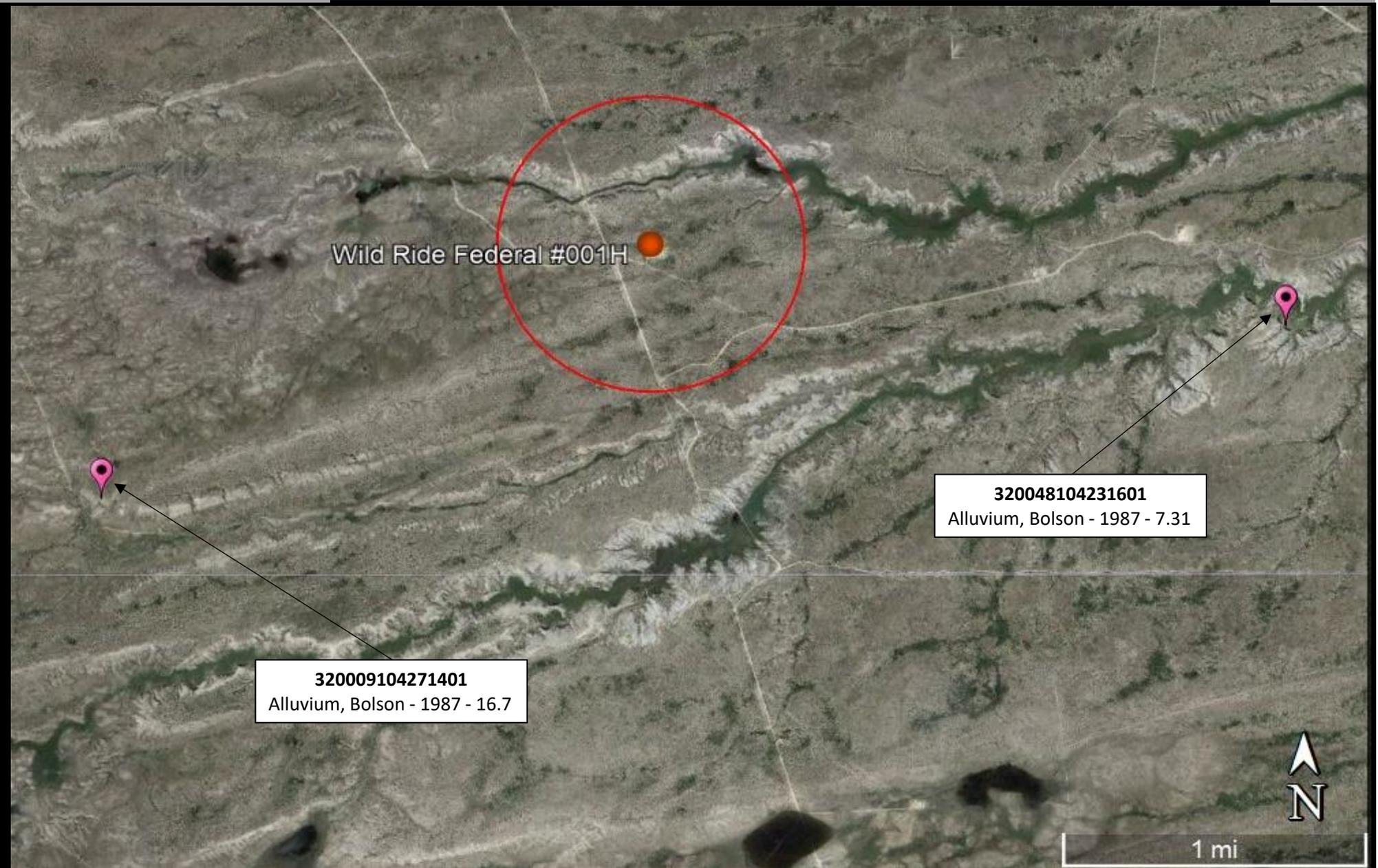
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	HU 00339 POD1	4	4	4	21	26S	05E	553806	3543254

Driller License:		Driller Company:		
Driller Name: UNKNOWN				
Drill Start Date:	Drill Finish Date:	12/31/1931	Plug Date:	
Log File Date:	PCW Rcv Date:		Source:	
Pump Type:	Pipe Discharge Size:		Estimated Yield:	
Casing Size: 6.50	Depth Well:	520 feet	Depth Water:	376 feet

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

8/19/20 1:17 PM

POINT OF DIVERSION SUMMARY



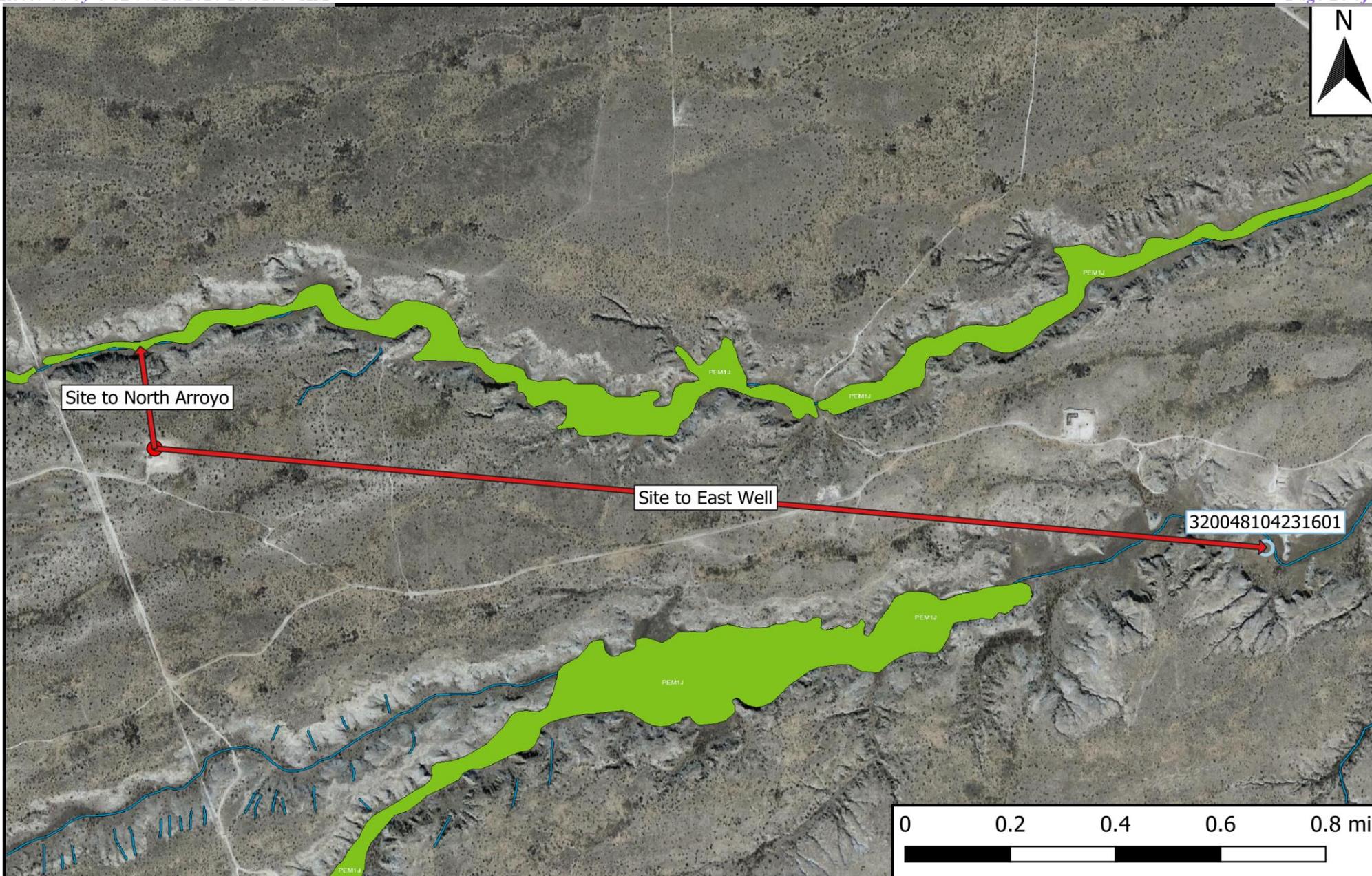
Legend:

- Site Location
- USGS Water Well

Figure 5

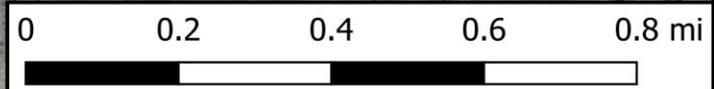
USGS Well Proximity Map
COG Operating, LLC
Wild Ride Federal #001H
GPS: 32.01648, -104.42426
Eddy County





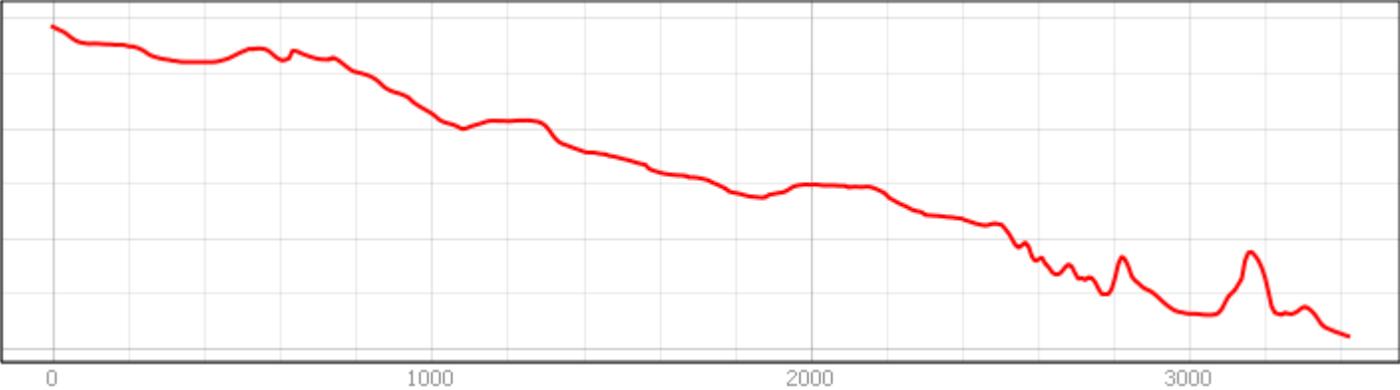
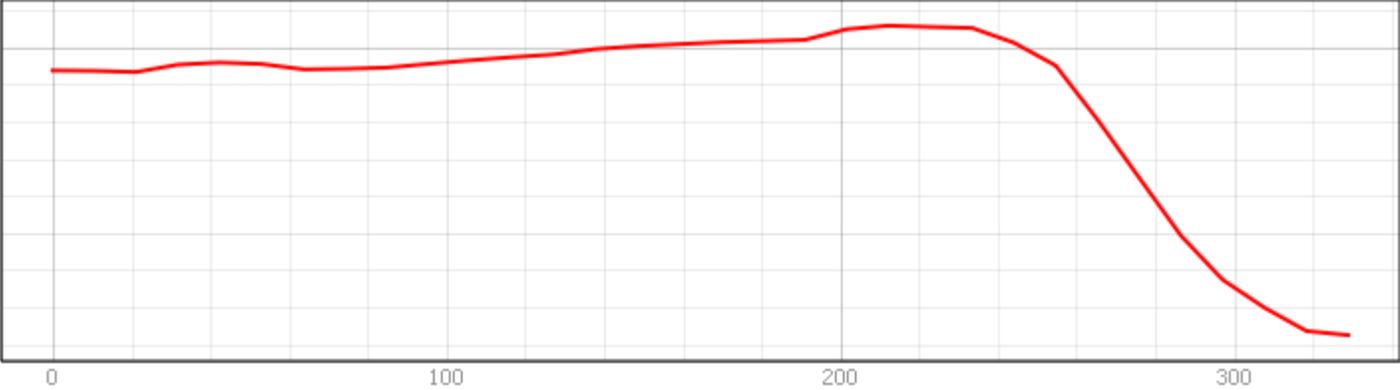
Legend	
	Elevation Line
	Site Location
	Well - NMOSE
	Well - USGS
	Potash Mine Workings
	0.5 Mi Radius
	1000 Ft Radius
	1% Annual Flood Chance
	Lake/Freshwater Pond
	Emergent/Forested Wetlands
	Riverine

Figure 2
 Aerial Map - Elevation Profile Lines
 COG Operating, LLC
 Wild Ride Federal #001H
 GPS: 32.01648, -104.42426
 Eddy County



Wild Ride Federal #1H – Elevation Profile Graphs

Data Source: USGS National Map

Start	Elevation (Y - meters) by Distance (X - meters)	End	Delta
Site Location (1159 m)	 <p>The graph shows a red line representing elevation in meters over a distance of 0 to 3500 meters. The y-axis ranges from 1100 to 1160 meters. The line starts at approximately 1159 meters at 0 meters distance and generally trends downwards, ending at approximately 1102 meters at 3500 meters distance. There are several small fluctuations and a notable dip around 2800 meters.</p>	East Well (1102 m)	-57 m (-187 ft)
Site Location (1159 m)	 <p>The graph shows a red line representing elevation in meters over a distance of 0 to 350 meters. The y-axis ranges from 1144 to 1162 meters. The line starts at approximately 1159 meters at 0 meters distance, rises slightly to a peak of about 1161 meters at 250 meters distance, and then drops sharply to approximately 1145 meters at 350 meters distance.</p>	North Arroyo (1145 m)	-14 m (-45.9 ft)



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National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category: Groundwater	Geographic Area: United States	GO
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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320048104231601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320048104231601 26S.25E.27.134434

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

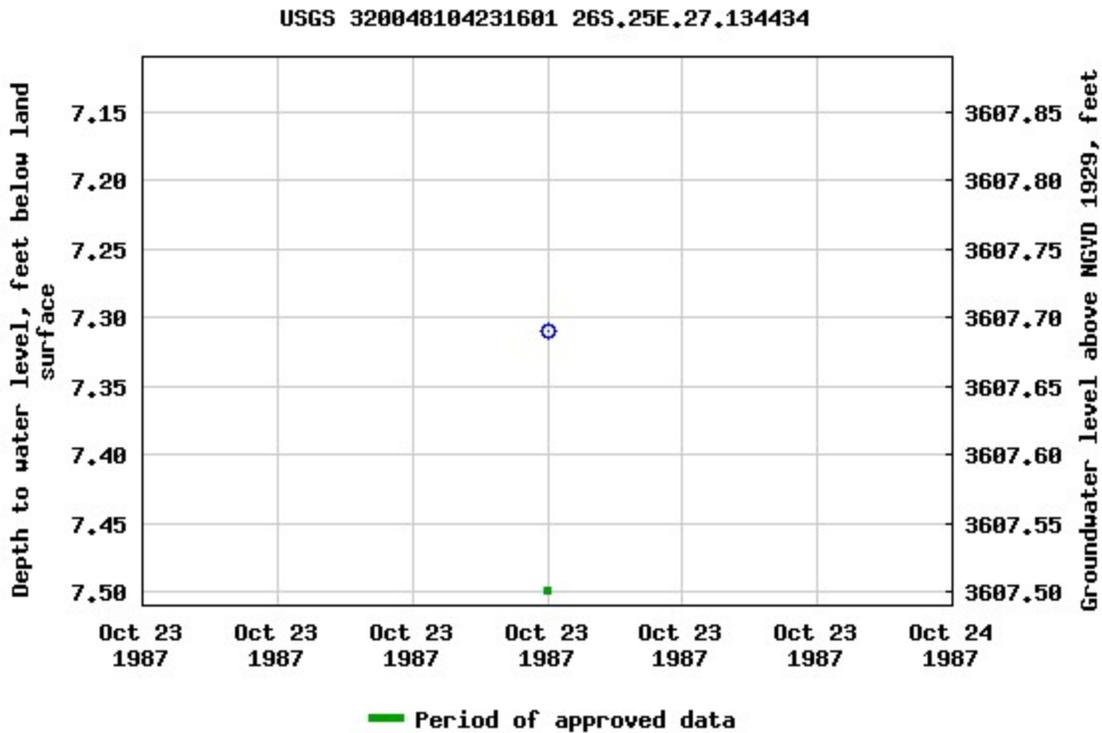
Latitude 32°00'48", Longitude 104°23'16" NAD27

Land-surface elevation 3,615.00 feet above NGVD29

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-09-17 10:15:43 EDT

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USGS Water Resources

Data Category: Groundwater	Geographic Area: United States	GO
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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 320009104271401

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 320009104271401 26S.24E.36.12333

Available data for this site

Eddy County, New Mexico

Hydrologic Unit Code 13060011

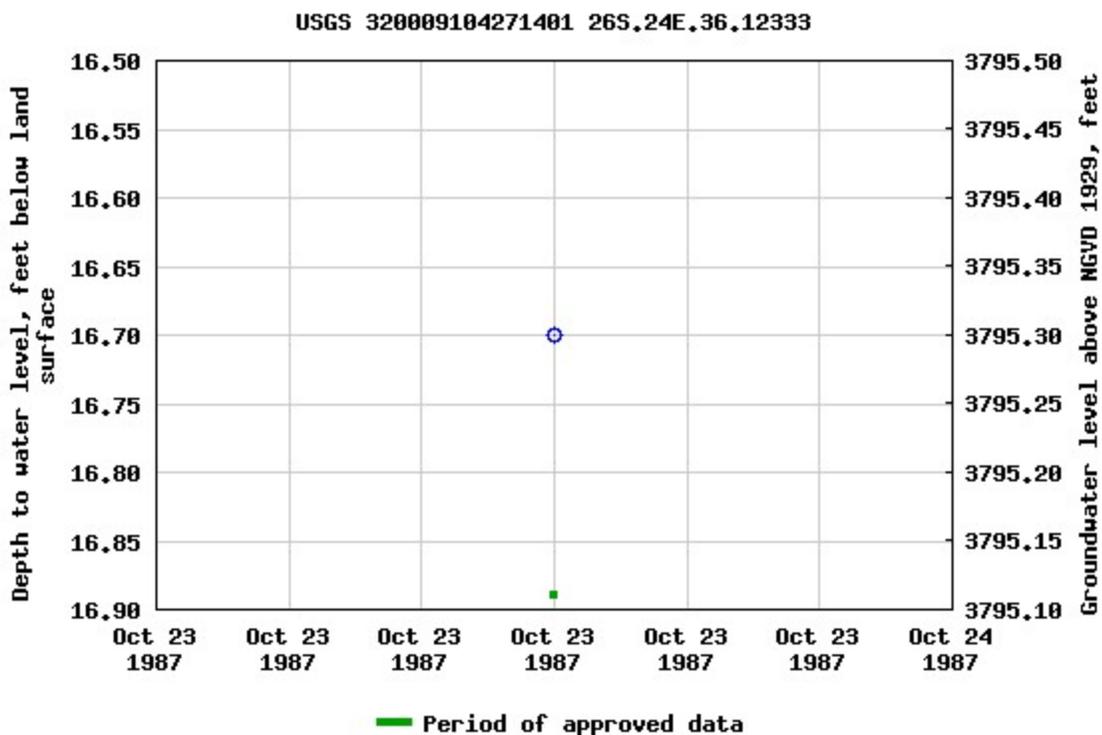
Latitude 32°00'09", Longitude 104°27'14" NAD27

Land-surface elevation 3,812 feet above NGVD29

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2019-09-17 10:18:57 EDT

1.03 0.96 nadww02

Appendix B

Field Data and Soil Profile Logs



Soil Profile

Date: 8/10/20

Project: Wild Ride Federal #001H

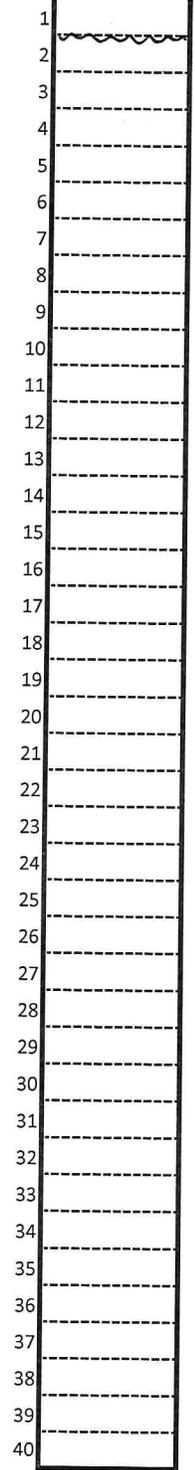
Project Number: 0

Latitude: 32.01648

Longitude: -104.42426

Depth (ft. bgs)

Description



Imported Fill/Caliche

Appendix C

Laboratory Analytical Reports



Certificate of Analysis Summary 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wild Ride Federal #001H

Project Id: 11245
Contact: PM
Project Location: Eddy County, NM

Date Received in Lab: Wed 08.12.2020 11:20
Report Date: 08.17.2020 13:21
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669782-001	669782-002	669782-003	669782-004		
	<i>Field Id:</i>	8.10 SP1 @ Surface	8.10 SP1 @ 1'	8.10 SP2 @ Surface	8.10 SP2 @ 1'		
	<i>Depth:</i>		1- ft		1- ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	08.10.2020 00:00	08.10.2020 00:00	08.10.2020 00:00	08.10.2020 00:00		
BTEX by EPA 8021B	<i>Extracted:</i>	08.14.2020 08:00	08.14.2020 08:00	08.14.2020 08:00	08.14.2020 08:00		
	<i>Analyzed:</i>	08.14.2020 12:30	08.14.2020 12:50	08.14.2020 13:11	08.14.2020 13:31		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	0.00255 0.00199		
Toluene		0.00835 0.00202	<0.00201 0.00201	0.00635 0.00198	0.00784 0.00199		
Ethylbenzene		<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199		
m,p-Xylenes		<0.00404 0.00404	<0.00402 0.00402	<0.00396 0.00396	<0.00398 0.00398		
o-Xylene		<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199		
Total Xylenes		<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00199 0.00199		
Total BTEX		0.00835 0.00202	<0.00201 0.00201	0.00635 0.00198	0.0104 0.00199		
Chloride by EPA 300	<i>Extracted:</i>	08.13.2020 10:25	08.13.2020 10:25	08.13.2020 10:25	08.13.2020 10:25		
	<i>Analyzed:</i>	08.13.2020 13:00	08.13.2020 13:06	08.14.2020 08:29	08.13.2020 13:32		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		1170 50.3	581 49.8	13.1 4.96	58.3 50.0		
TPH by SW8015 Mod	<i>Extracted:</i>	08.13.2020 17:00	08.13.2020 17:00	08.13.2020 17:00	08.13.2020 17:00		
	<i>Analyzed:</i>	08.14.2020 05:15	08.14.2020 05:36	08.14.2020 05:58	08.14.2020 06:19		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9		
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9		
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9		
Total TPH		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9		

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Analytical Report 669782

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Wild Ride Federal #001H

11245

08.17.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.17.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **669782**

Wild Ride Federal #001H

Project Address: Eddy County, NM

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669782. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669782 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
8.10 SP1 @ Surface	S	08.10.2020 00:00		669782-001
8.10 SP1 @ 1'	S	08.10.2020 00:00	1 ft	669782-002
8.10 SP2 @ Surface	S	08.10.2020 00:00		669782-003
8.10 SP2 @ 1'	S	08.10.2020 00:00	1 ft	669782-004



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wild Ride Federal #001H

Project ID: 11245
Work Order Number(s): 669782

Report Date: 08.17.2020
Date Received: 08.12.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: **8.10 SP1 @ Surface** Matrix: Soil Date Received: 08.12.2020 11:20
 Lab Sample Id: 669782-001 Date Collected: 08.10.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 08.13.2020 10:25 Basis: Wet Weight
 Seq Number: 3134516

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1170	50.3	mg/kg	08.13.2020 13:00		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134554

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.14.2020 05:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.14.2020 05:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.14.2020 05:15	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.14.2020 05:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	08.14.2020 05:15	
o-Terphenyl	84-15-1	110	%	70-130	08.14.2020 05:15	



Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: **8.10 SP1 @ Surface**

Matrix: Soil

Date Received: 08.12.2020 11:20

Lab Sample Id: 669782-001

Date Collected: 08.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.14.2020 08:00

Basis: Wet Weight

Seq Number: 3134669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.14.2020 12:30	U	1
Toluene	108-88-3	0.00835	0.00202	mg/kg	08.14.2020 12:30		1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.14.2020 12:30	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	08.14.2020 12:30	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.14.2020 12:30	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	08.14.2020 12:30	U	1
Total BTEX		0.00835	0.00202	mg/kg	08.14.2020 12:30		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	08.14.2020 12:30		
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.14.2020 12:30		



Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: **8.10 SP1 @ 1'** Matrix: Soil Date Received: 08.12.2020 11:20
 Lab Sample Id: 669782-002 Date Collected: 08.10.2020 00:00 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 08.13.2020 10:25 Basis: Wet Weight
 Seq Number: 3134516

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	581	49.8	mg/kg	08.13.2020 13:06		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134554

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.14.2020 05:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.14.2020 05:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.14.2020 05:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.14.2020 05:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	08.14.2020 05:36	
o-Terphenyl	84-15-1	113	%	70-130	08.14.2020 05:36	



Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX Wild Ride Federal #001H

Sample Id: **8.10 SP1 @ 1'** Matrix: Soil Date Received: 08.12.2020 11:20
 Lab Sample Id: 669782-002 Date Collected: 08.10.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.14.2020 08:00 Basis: Wet Weight
 Seq Number: 3134669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.14.2020 12:50	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.14.2020 12:50	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.14.2020 12:50	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.14.2020 12:50	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.14.2020 12:50	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	08.14.2020 12:50	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.14.2020 12:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	120	%	70-130	08.14.2020 12:50	
4-Bromofluorobenzene	460-00-4	101	%	70-130	08.14.2020 12:50	



Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX Wild Ride Federal #001H

Sample Id: **8.10 SP2 @ Surface** Matrix: Soil Date Received: 08.12.2020 11:20
 Lab Sample Id: 669782-003 Date Collected: 08.10.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 08.13.2020 10:25 Basis: Wet Weight
 Seq Number: 3134516

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.1	4.96	mg/kg	08.14.2020 08:29		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.13.2020 17:00 Basis: Wet Weight
 Seq Number: 3134554

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.14.2020 05:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.14.2020 05:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.14.2020 05:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.14.2020 05:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	08.14.2020 05:58	
o-Terphenyl	84-15-1	110	%	70-130	08.14.2020 05:58	



Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: **8.10 SP2 @ Surface**

Matrix: Soil

Date Received: 08.12.2020 11:20

Lab Sample Id: 669782-003

Date Collected: 08.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.14.2020 08:00

Basis: Wet Weight

Seq Number: 3134669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.14.2020 13:11	U	1
Toluene	108-88-3	0.00635	0.00198	mg/kg	08.14.2020 13:11		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.14.2020 13:11	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.14.2020 13:11	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.14.2020 13:11	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	08.14.2020 13:11	U	1
Total BTEX		0.00635	0.00198	mg/kg	08.14.2020 13:11		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	116	%	70-130	08.14.2020 13:11		
4-Bromofluorobenzene	460-00-4	99	%	70-130	08.14.2020 13:11		



Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX Wild Ride Federal #001H

Sample Id: 8.10 SP2 @ 1'	Matrix: Soil	Date Received: 08.12.2020 11:20
Lab Sample Id: 669782-004	Date Collected: 08.10.2020 00:00	Sample Depth: 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: SPC		% Moisture:
Analyst: SPC	Date Prep: 08.13.2020 10:25	Basis: Wet Weight
Seq Number: 3134516		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	58.3	50.0	mg/kg	08.13.2020 13:32		10

Analytical Method: TPH by SW8015 Mod	Prep Method: SW8015P
Tech: DVM	% Moisture:
Analyst: ARM	Date Prep: 08.13.2020 17:00
Seq Number: 3134554	Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.14.2020 06:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.14.2020 06:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.14.2020 06:19	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.14.2020 06:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	08.14.2020 06:19	
o-Terphenyl	84-15-1	114	%	70-130	08.14.2020 06:19	



Certificate of Analytical Results 669782

Etech Environmental & Safety Solution, Inc, Midland, TX Wild Ride Federal #001H

Sample Id: **8.10 SP2 @ 1'** Matrix: Soil Date Received: 08.12.2020 11:20
 Lab Sample Id: 669782-004 Date Collected: 08.10.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.14.2020 08:00 Basis: Wet Weight
 Seq Number: 3134669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00255	0.00199	mg/kg	08.14.2020 13:31		1
Toluene	108-88-3	0.00784	0.00199	mg/kg	08.14.2020 13:31		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.14.2020 13:31	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.14.2020 13:31	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.14.2020 13:31	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.14.2020 13:31	U	1
Total BTEX		0.0104	0.00199	mg/kg	08.14.2020 13:31		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	08.14.2020 13:31	
1,4-Difluorobenzene	540-36-3	119	%	70-130	08.14.2020 13:31	



Etech Environmental & Safety Solution, Inc
Wild Ride Federal #001H

Analytical Method: Chloride by EPA 300

Seq Number: 3134516

MB Sample Id: 7709361-1-BLK

Matrix: Solid

LCS Sample Id: 7709361-1-BKS

Prep Method: E300P

Date Prep: 08.13.2020

LCSD Sample Id: 7709361-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	265	106	265	106	90-110	0	20	mg/kg	08.13.2020 11:25	

Analytical Method: Chloride by EPA 300

Seq Number: 3134516

Parent Sample Id: 669779-006

Matrix: Soil

MS Sample Id: 669779-006 S

Prep Method: E300P

Date Prep: 08.13.2020

MSD Sample Id: 669779-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.01	251	271	108	271	108	90-110	0	20	mg/kg	08.13.2020 11:44	

Analytical Method: Chloride by EPA 300

Seq Number: 3134516

Parent Sample Id: 669782-002

Matrix: Soil

MS Sample Id: 669782-002 S

Prep Method: E300P

Date Prep: 08.13.2020

MSD Sample Id: 669782-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	581	2490	3310	110	3310	110	90-110	0	20	mg/kg	08.13.2020 13:12	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134554

MB Sample Id: 7709436-1-BLK

Matrix: Solid

LCS Sample Id: 7709436-1-BKS

Prep Method: SW8015P

Date Prep: 08.13.2020

LCSD Sample Id: 7709436-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	986	99	957	96	70-130	3	20	mg/kg	08.13.2020 21:46	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	1010	101	70-130	2	20	mg/kg	08.13.2020 21:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	116		115		115		70-130	%	08.13.2020 21:46
o-Terphenyl	115		109		112		70-130	%	08.13.2020 21:46

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134554

MB Sample Id: 7709436-1-BLK

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.13.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.13.2020 21:24	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Etech Environmental & Safety Solution, Inc
Wild Ride Federal #001H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134554
Parent Sample Id: 669700-002

Matrix: Soil
MS Sample Id: 669700-002 S

Prep Method: SW8015P
Date Prep: 08.13.2020
MSD Sample Id: 669700-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	894	89	882	88	70-130	1	20	mg/kg	08.13.2020 22:50	
Diesel Range Organics (DRO)	<50.0	999	898	90	881	88	70-130	2	20	mg/kg	08.13.2020 22:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		107		70-130	%	08.13.2020 22:50
o-Terphenyl	109		104		70-130	%	08.13.2020 22:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134669
MB Sample Id: 7709515-1-BLK

Matrix: Solid
LCS Sample Id: 7709515-1-BKS

Prep Method: SW5035A
Date Prep: 08.14.2020
LCSD Sample Id: 7709515-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.102	102	0.106	106	70-130	4	35	mg/kg	08.14.2020 08:04	
Toluene	<0.00200	0.100	0.0960	96	0.100	100	70-130	4	35	mg/kg	08.14.2020 08:04	
Ethylbenzene	<0.00200	0.100	0.0942	94	0.0984	98	70-130	4	35	mg/kg	08.14.2020 08:04	
m,p-Xylenes	<0.00400	0.200	0.187	94	0.195	98	70-130	4	35	mg/kg	08.14.2020 08:04	
o-Xylene	<0.00200	0.100	0.0939	94	0.0988	99	70-130	5	35	mg/kg	08.14.2020 08:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		100		101		70-130	%	08.14.2020 08:04
4-Bromofluorobenzene	103		103		103		70-130	%	08.14.2020 08:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134669
Parent Sample Id: 669700-011

Matrix: Soil
MS Sample Id: 669700-011 S

Prep Method: SW5035A
Date Prep: 08.14.2020
MSD Sample Id: 669700-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0930	93	0.0959	95	70-130	3	35	mg/kg	08.14.2020 08:44	
Toluene	<0.00200	0.100	0.0865	87	0.0893	88	70-130	3	35	mg/kg	08.14.2020 08:44	
Ethylbenzene	<0.00200	0.100	0.0838	84	0.0863	85	70-130	3	35	mg/kg	08.14.2020 08:44	
m,p-Xylenes	<0.00400	0.200	0.165	83	0.170	84	70-130	3	35	mg/kg	08.14.2020 08:44	
o-Xylene	<0.00200	0.100	0.0821	82	0.0848	84	70-130	3	35	mg/kg	08.14.2020 08:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		101		70-130	%	08.14.2020 08:44
4-Bromofluorobenzene	105		102		70-130	%	08.14.2020 08:44

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Chain of Custody

Houston, TX (201) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 508-3334
 Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 986-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 699-6701
 Atlanta, GA (770) 449-8800

Work Order No:

109782

Project Manager: Joel Lowry
 Company Name: Etch Environmental & Safety
 Address: 3100 Plains Highway
 City, State ZIP: Lovington, NM, 88260
 Phone: 575-396-2378
 Project Name: Wild Ride, Federal # 0211
 Project Number: 11245
 Project Location: Eddy County NM
 Sampler's Name: Miguel Ramirez
 PO #:
 Bill to: (if different) Dakota Neil
 Company Name: Concho
 Address:
 City, State ZIP:
 Email: Email Results to PM@etchenv.com + Client

www.xenco.com Page 1 of 1
 Work Order Comments
 Program: UST/PST PRP Brownfields RRC Superfund
 State of Project:
 Reporting Level: Level I Level II PST/US TRR Level I
 Deliverables: EDD ADAPT Other:
 Preservative Codes
 HNO3: HN
 H2SO4: H2
 HCL: HL
 None: NO
 NaOH: NB
 MeOH: Me
 Zn Acetate+ NaOH: Zn
 TAT starts the day received by the lab, if received by 4:30pm
 Sample Comments

SAMPLE RECEIPT
 Temperature (°C): 0.0
 Received Inlet: Star No
 Cooler Custody Seals: Yes No NA
 Sample Custody Seals: Yes No NA
 Temp Blank: Yes No
 Wet Ice: Yes No
 Thermometer ID:
 Correction Factor:
 Total Containers:
 Turn Around:
 Rush:
 Due Date:
 ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride E300	BTEX 8021	TPH Modified Ext	TPH TX1005	ANALYSIS REQUEST	Preservative Codes
8-10 SP10 surface	Soil	8-10-20		1'	1	X	X	X	X		
8-10 SP10-1	Soil	8-10-20		1'	1	X	X	X	X		
8-10 SP20 surface	Soil	8-10-20		1'	1	X	X	X	X		
8-10 SP20-1	Soil	8-10-20		1'	1	X	X	X	X		

Total 200.7 / 6010 200.8 / 6020: BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO2 Na Sr Tl Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U
 1631 / 245.1 / 7470 / 7477 : Hg
 Relinquished by: (Signature) _____ Received by: (Signature) _____ Date/Time: 8-11-20 8:27
 Relinquished by: (Signature) _____ Received by: (Signature) _____ Date/Time: 8-11-20 11:20

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.12.2020 11.20.00 AM

Work Order #: 669782

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	BTEX was in bulk container
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	N/A	
#18 Water VOC samples have zero headspace?	N/A	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:

Brianna Teel
Brianna Teel

Date: 08.12.2020

Checklist reviewed by:

Jessica Kramer
Jessica Kramer

Date: 08.12.2020



Certificate of Analysis Summary 669786

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: Wild Ride Federal #001H

Project Id: 11245
Contact: PM
Project Location: Eddy County, NM

Date Received in Lab: Wed 08.12.2020 11:20
Report Date: 08.17.2020 13:22
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669786-001	669786-002			
	<i>Field Id:</i>	8.10 SP3 @ Surface	8.10 SP3 @ 1'			
	<i>Depth:</i>		1- ft			
	<i>Matrix:</i>	SOIL	SOIL			
	<i>Sampled:</i>	08.10.2020 00:00	08.10.2020 00:00			
BTEX by EPA 8021B	<i>Extracted:</i>	08.14.2020 08:00	08.14.2020 08:00			
	<i>Analyzed:</i>	08.14.2020 14:54	08.14.2020 15:14			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			
Benzene		<0.00199 0.00199	<0.00199 0.00199			
Toluene		0.00529 0.00199	0.00479 0.00199			
Ethylbenzene		<0.00199 0.00199	<0.00199 0.00199			
m,p-Xylenes		<0.00398 0.00398	<0.00398 0.00398			
o-Xylene		<0.00199 0.00199	<0.00199 0.00199			
Total Xylenes		<0.00199 0.00199	<0.00199 0.00199			
Total BTEX		0.00529 0.00199	0.00479 0.00199			
Chloride by EPA 300	<i>Extracted:</i>	08.12.2020 16:40	08.12.2020 16:40			
	<i>Analyzed:</i>	08.13.2020 08:35	08.13.2020 08:54			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			
Chloride		1450 50.5	14.0 4.99			
TPH by SW8015 Mod	<i>Extracted:</i>	08.12.2020 17:00	08.12.2020 17:00			
	<i>Analyzed:</i>	08.13.2020 05:34	08.13.2020 05:55			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0			
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0			
Total TPH		<49.9 49.9	<50.0 50.0			

BRL - Below Reporting Limit

Jessica Kramer

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Analytical Report 669786

for

Etech Environmental & Safety Solution, Inc

Project Manager: PM

Wild Ride Federal #001H

11245

08.17.2020

Collected By: Client



**1211 W. Florida Ave
Midland TX 79701**

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.17.2020

Project Manager: **PM**

Etech Environmental & Safety Solution, Inc

P.O. Box 62228

Midland, TX 79711

Reference: Eurofins Xenco, LLC Report No(s): **669786**

Wild Ride Federal #001H

Project Address: Eddy County, NM

PM :

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669786. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669786 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

A handwritten signature in black ink that reads "Jessica Kramer". The signature is written in a cursive, slightly slanted style.

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico



Sample Cross Reference 669786

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
8.10 SP3 @ Surface	S	08.10.2020 00:00		669786-001
8.10 SP3 @ 1'	S	08.10.2020 00:00	1 ft	669786-002



CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: Wild Ride Federal #001H

Project ID: 11245
Work Order Number(s): 669786

Report Date: 08.17.2020
Date Received: 08.12.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 669786

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: **8.10 SP3 @ Surface** Matrix: Soil Date Received: 08.12.2020 11:20
 Lab Sample Id: 669786-001 Date Collected: 08.10.2020 00:00
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 08.12.2020 16:40 Basis: Wet Weight
 Seq Number: 3134378

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1450	50.5	mg/kg	08.13.2020 08:35		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 08.12.2020 17:00 Basis: Wet Weight
 Seq Number: 3134439

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 05:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 05:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 05:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 05:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-130	08.13.2020 05:34	
o-Terphenyl	84-15-1	121	%	70-130	08.13.2020 05:34	



Certificate of Analytical Results 669786

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: **8.10 SP3 @ Surface**

Matrix: Soil

Date Received: 08.12.2020 11:20

Lab Sample Id: 669786-001

Date Collected: 08.10.2020 00:00

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 08.14.2020 08:00

Basis: Wet Weight

Seq Number: 3134669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.14.2020 14:54	U	1
Toluene	108-88-3	0.00529	0.00199	mg/kg	08.14.2020 14:54		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.14.2020 14:54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.14.2020 14:54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.14.2020 14:54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.14.2020 14:54	U	1
Total BTEX		0.00529	0.00199	mg/kg	08.14.2020 14:54		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	112	%	70-130	08.14.2020 14:54		
4-Bromofluorobenzene	460-00-4	99	%	70-130	08.14.2020 14:54		



Certificate of Analytical Results 669786

Etech Environmental & Safety Solution, Inc, Midland, TX

Wild Ride Federal #001H

Sample Id: 8.10 SP3 @ 1'	Matrix: Soil	Date Received: 08.12.2020 11:20
Lab Sample Id: 669786-002	Date Collected: 08.10.2020 00:00	Sample Depth: 1 ft
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: CHE		% Moisture:
Analyst: CHE	Date Prep: 08.12.2020 16:40	Basis: Wet Weight
Seq Number: 3134378		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14.0	4.99	mg/kg	08.13.2020 08:54		1

Analytical Method: TPH by SW8015 Mod		Prep Method: SW8015P
Tech: DVM		% Moisture:
Analyst: ARM	Date Prep: 08.12.2020 17:00	Basis: Wet Weight
Seq Number: 3134439		

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 05:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 05:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 05:55	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 05:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	08.13.2020 05:55	
o-Terphenyl	84-15-1	105	%	70-130	08.13.2020 05:55	



Certificate of Analytical Results 669786

Etech Environmental & Safety Solution, Inc, Midland, TX Wild Ride Federal #001H

Sample Id: **8.10 SP3 @ 1'** Matrix: Soil Date Received: 08.12.2020 11:20
 Lab Sample Id: 669786-002 Date Collected: 08.10.2020 00:00 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: KTL % Moisture:
 Analyst: KTL Date Prep: 08.14.2020 08:00 Basis: Wet Weight
 Seq Number: 3134669

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.14.2020 15:14	U	1
Toluene	108-88-3	0.00479	0.00199	mg/kg	08.14.2020 15:14		1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.14.2020 15:14	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.14.2020 15:14	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.14.2020 15:14	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	08.14.2020 15:14	U	1
Total BTEX		0.00479	0.00199	mg/kg	08.14.2020 15:14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	08.14.2020 15:14	
1,4-Difluorobenzene	540-36-3	115	%	70-130	08.14.2020 15:14	



Etech Environmental & Safety Solution, Inc
Wild Ride Federal #001H

Analytical Method: Chloride by EPA 300

Seq Number: 3134378

MB Sample Id: 7709299-1-BLK

Matrix: Solid

LCS Sample Id: 7709299-1-BKS

Prep Method: E300P

Date Prep: 08.12.2020

LCSD Sample Id: 7709299-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	273	109	274	110	90-110	0	20	mg/kg	08.12.2020 16:47	

Analytical Method: Chloride by EPA 300

Seq Number: 3134378

Parent Sample Id: 669777-001

Matrix: Soil

MS Sample Id: 669777-001 S

Prep Method: E300P

Date Prep: 08.12.2020

MSD Sample Id: 669777-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.96	248	282	114	280	113	90-110	1	20	mg/kg	08.12.2020 17:06	X

Analytical Method: Chloride by EPA 300

Seq Number: 3134378

Parent Sample Id: 669808-001

Matrix: Soil

MS Sample Id: 669808-001 S

Prep Method: E300P

Date Prep: 08.12.2020

MSD Sample Id: 669808-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2230	1240	3590	110	3590	110	90-110	0	20	mg/kg	08.12.2020 18:35	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134439

MB Sample Id: 7709338-1-BLK

Matrix: Solid

LCS Sample Id: 7709338-1-BKS

Prep Method: SW8015P

Date Prep: 08.12.2020

LCSD Sample Id: 7709338-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	997	100	939	94	70-130	6	20	mg/kg	08.12.2020 22:03	
Diesel Range Organics (DRO)	<50.0	1000	997	100	955	96	70-130	4	20	mg/kg	08.12.2020 22:03	

Surrogate

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		127		121		70-130	%	08.12.2020 22:03
o-Terphenyl	116		120		115		70-130	%	08.12.2020 22:03

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134439

MB Sample Id: 7709338-1-BLK

Matrix: Solid

Prep Method: SW8015P

Date Prep: 08.12.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.12.2020 21:42	

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Etech Environmental & Safety Solution, Inc
Wild Ride Federal #001H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134439

Parent Sample Id: 669772-001

Matrix: Soil

MS Sample Id: 669772-001 S

Prep Method: SW8015P

Date Prep: 08.12.2020

MSD Sample Id: 669772-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	935	94	981	98	70-130	5	20	mg/kg	08.12.2020 23:08	
Diesel Range Organics (DRO)	<50.0	999	941	94	978	98	70-130	4	20	mg/kg	08.12.2020 23:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	114		120		70-130	%	08.12.2020 23:08
o-Terphenyl	106		110		70-130	%	08.12.2020 23:08

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134669

MB Sample Id: 7709515-1-BLK

Matrix: Solid

LCS Sample Id: 7709515-1-BKS

Prep Method: SW5035A

Date Prep: 08.14.2020

LCSD Sample Id: 7709515-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.102	102	0.106	106	70-130	4	35	mg/kg	08.14.2020 08:04	
Toluene	<0.00200	0.100	0.0960	96	0.100	100	70-130	4	35	mg/kg	08.14.2020 08:04	
Ethylbenzene	<0.00200	0.100	0.0942	94	0.0984	98	70-130	4	35	mg/kg	08.14.2020 08:04	
m,p-Xylenes	<0.00400	0.200	0.187	94	0.195	98	70-130	4	35	mg/kg	08.14.2020 08:04	
o-Xylene	<0.00200	0.100	0.0939	94	0.0988	99	70-130	5	35	mg/kg	08.14.2020 08:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		100		101		70-130	%	08.14.2020 08:04
4-Bromofluorobenzene	103		103		103		70-130	%	08.14.2020 08:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134669

Parent Sample Id: 669700-011

Matrix: Soil

MS Sample Id: 669700-011 S

Prep Method: SW5035A

Date Prep: 08.14.2020

MSD Sample Id: 669700-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.0930	93	0.0959	95	70-130	3	35	mg/kg	08.14.2020 08:44	
Toluene	<0.00200	0.100	0.0865	87	0.0893	88	70-130	3	35	mg/kg	08.14.2020 08:44	
Ethylbenzene	<0.00200	0.100	0.0838	84	0.0863	85	70-130	3	35	mg/kg	08.14.2020 08:44	
m,p-Xylenes	<0.00400	0.200	0.165	83	0.170	84	70-130	3	35	mg/kg	08.14.2020 08:44	
o-Xylene	<0.00200	0.100	0.0821	82	0.0848	84	70-130	3	35	mg/kg	08.14.2020 08:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		101		70-130	%	08.14.2020 08:44
4-Bromofluorobenzene	105		102		70-130	%	08.14.2020 08:44

MS/MSD Percent Recovery
Relative Percent Difference
LCS/LCSD Recovery
Log Difference

[D] = 100*(C-A) / B
RPD = 200* | (C-E) / (C+E) |
[D] = 100 * (C) / [B]
Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

MS = Matrix Spike
B = Spike Added
D = MSD/LCSD % Rec



Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440, El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 980-3199, Phoenix, AZ (480) 355-0900
 Tampa, FL (813) 620-2000, Tallahassee, FL (904) 756-0747, Delray Beach, FL (561) 699-6701
 Atlanta, GA (770) 449-8800

Work Order No: W09784

Project Manager: Joel Lowry Bill to: (if different) Dakota Neil
 Company Name: Elech Environmental & Safety Company Name: Concho
 Address: 3100 Plains Highway Address:
 City, State ZIP: Livingston, NM, 88260 City, State ZIP:
 Phone: 575-396-2378 Email: Email Results to PM@elecheny.com + Client

Program: UST/PST PRP Brownfields RRC Superfund
 State of Project:
 Reporting Level: Level I PST/UST TRR Level II
 Deliverables: EDD ADAPT Other:

Project Name: Wild Ride Rd/Al # 001H Turn Around
 Project Number: 11945 Routine:
 Project Location: Edley County, NM Rush:
 Sampler's Name: Miguel Ramirez Due Date:
 PO #:

Temp Blank: Yes Wet Ice: Yes
 Temperature (°C): 60/62 Thermometer ID:
 Received Inlet: Yes Cooler Custody Seals: Yes No N/A
 Sample Custody Seals: Yes No N/A Correction Factor:
 Total Containers: 4/4

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code
<u>210 SP30 surface</u>	<u>Soil</u>	<u>8-16-20</u>	<u></u>	<u>1</u>	<u>Chloride E300</u>
<u>210 SP30 1'</u>	<u>Soil</u>	<u>8-16-20</u>	<u></u>	<u>1</u>	<u>BTEX 8021</u>
					<u>TPH Modified Ext</u>
					<u>TPH TX1005</u>

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 Circle Method(s) and Metal(s) to be analyzed: TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Min Mo Ni Se Ag Ti U
 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature]
 Date/Time: 8-16-20 13:27 Date/Time: [Signature]

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature]
 Date/Time: 8-16-20 13:27 Date/Time: [Signature]

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 08.12.2020 11.20.00 AM

Work Order #: 669786

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	.2	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	N/A	
#5 Custody Seals intact on sample bottles?	N/A	
#6*Custody Seals Signed and dated?	N/A	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	BTEX was in bulk container
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	N/A	
#18 Water VOC samples have zero headspace?	N/A	

*** Must be completed for after-hours delivery of samples prior to placing in the refrigerator**

Analyst:

PH Device/Lot#:

Checklist completed by:



Brianna Teel

Date: 08.12.2020

Checklist reviewed by:



Jessica Kramer

Date: 08.12.2020

Appendix D

Photographic Log

Photographic Log

Photo Number: 1	
Photo Direction: Birdseye	
Photo Description: Aerial view of facility prior to lightning strike and resulting fire.	

Photo Number: 2	
Photo Direction: Southeast	
Photo Description: View of impermeable liner after tank and gravel removal.	

Aug 10, 2020 at 11:24:28 AM
+32.016570,-104.424305 ±5.00m
120° SE

Photographic Log

Photo Number: 3
Photo Direction: Northwest
Photo Description: View of impermeable liner after tank and gravel removal.



Photo Number: 4
Photo Direction: Northeast
Photo Description: View of melted portion of liner above high water mark.

