

SITE INFORMATION

Report Type: Sampling Plan nOY1804732368

General Site Information:

Site:	A N ETZ #001					
Company:	Permian Water Solutions LLC					
Section, Township and Range	Unit P	Sec. 26	T 19S	R 38E		
Lease Number:						
County:	Lea County					
GPS:	32.625784			-103.112811		
Surface Owner:						
Mineral Owner:						
Directions:	From intersection NM 18 and CR56, follow CR 56/Nadine east for 0.78 miles. Turn left into location. Drive through pad to lease road that flows behind tanks, follow road for 0.12 miles to location of impact.					

Release Data:

Date Released:	7/15/2017
Type Release:	Produced Water
Source of Contamination:	Busted Water Line
Fluid Released:	150 bbls water
Fluids Recovered:	130 bbls water

Official Communication:

Name:	Dusty McInturff		Clair Gonzales
Company:	Permian Water Solutions		Tetra Tech
Address:	PO BOX 2106		901 W. Wall St.
			Ste 100
City:	Midland, Texas, 79702		Midland, Texas, 79701
Phone number:	432-634-7865		(432) 682-4559
Fax:			
Email:	dmcinturff@dufrane.com		clair.gonzales@tetrattech.com

Site Characterization

Depth to Groundwater:	80' bgs
Karst Potential:	Medium

Recommended Remedial Action Levels (RRALs)

Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	100 mg/kg	100 mg/kg	600 mg/kg



May 25, 2022

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

**RE: Sampling Plan
Permian Water Solutions
A N ETZ #001
Lea County, New Mexico
nOY1804732368**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by Permian Water Solutions (Permian Water) to assess a release that occurred at the A N ETZ #001, Unit P, Section 26, Township 19 South, Range 38 East, Lea County, New Mexico (Site). The spill site coordinates are 32.625784°, -103.112811°. The site location is shown on **Figures 1 and 2**.

Background

According to the State of New Mexico C-141 Initial Report, the release at the A N ETZ #001 was caused by a busted water line, causing the release of 150 bbls of produced water, the release impacted the area of the entire pad, caliche access road, and adjacent pasture, impacting an area of 10,000 square feet. Additionally, approximately 130 bbls of water was recovered, but the amount was not documented. On July 15, 2017, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). The C-141 is shown in **Appendix A**.

Site Characterization

Significant Water Features

According to the NFHL (National Flood Hazard Layer) Flood Data Application and the USGS (United States Geological Survey) National Water Information System Mapper, there were no watercourses, lakebeds, sinkholes, springs, wetlands, subsurface mines, private domestic water wells, or floodplains located within the specified distances. However, the site is located in a medium karst area and is located near a playa lake. The NFHL Map and USGS Mapper are shown in **Appendix B**.



Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within an incorporated municipal boundaries, defined municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institution, or churches located within the specified distances of the lateral extents of the release.

Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the three closest water wells within a ½ mile radius of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 160 ft bgs and measured water level of 80 ft bgs and is approximately 0.16 miles of the Site. The well reported on the USGS National Water Information System reports a total depth of 145 ft bgs with water level measured at 68 ft bgs and is approximately 0.23 miles west of the Site. The well reported on the USGS National Water Information System reports groundwater at a total depth of 59.04 ft bgs and is approximately 0.29 miles southeast of the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
0.16 Miles	8/20/2020	NMOSE	160'	80'
0.23 Miles	5/27/1994	USGS	145'	68'
0.29 Miles	3/01/1996	USGS	N/A	59.04'

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, for TPH is 100 mg/kg (GRO + DRO + ORO). Additionally, based on the site characterization, for chlorides is 600 mg/kg.

Previous Consultants Site Assessment Activities

2017 Assessment Activities

Cambrian Management, Ltd (Cambrian), the previous owners of the Site, had hired previous consultants to assess the impact at the Site. The following information from previous



activities has been obtained from a Corrective Action and Sampling Plan that was found based on the incident numbers, this report can be found in **Appendix C**.

Site assessment activities were conducted on July 27, 2017 and December 11, 2017. On July 7, 2017, a total of eight (8) sample points (SP-1 through SP-6, SP-8, and SP-9) were installed to total depths ranging from 1.5 ft bgs to attempt to assess the impacted area. Trinity returned to the site on December 11, 2017, the sample points (SP-1, SP-2, SP-3, SP-4, SP-5, and SP-9) were extended to deeper depths ranging from 2.0 ft bgs to 3.0 ft bgs, to attempt to vertically delineate previous chloride concentrations. Additionally, a total of six (6) additional sample points (SP-10 through SP-15) were installed at the site to further assess the impacted area.

The samples were submitted to Cardinal Laboratory in Hobbs, New Mexico to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300.0. The analytical results are summarized in the report located in **Appendix C**.

Based on laboratory data from the July 7, 2017 sampling event, all sampling points (SP-1 through SP-6, SP-8, and SP-9) did not show benzene, total BTEX, or TPH concentrations above laboratory detection limits. Sampling points (SP-1, SP-2, SP-4, SP-5, and SP-9) indicated chloride concentrations above RRALs, with concentrations ranging from 971 mg/kg to 4,190 mg/kg, at depths of 1.5 ft bgs. The remaining sample points (SP-3, SP-6, SP-8, and SP-9) showed chloride concentrations below RRALs. Additionally, sample points (SP-2, SP-3, SP-5, SP-6, and SP-8) were vertically delineated for chlorides.

Based on data found from the sampling event on December 11, 2017, the sample points (SP-1, SP-2, SP-3, SP-4, SP-5, and SP-9) that were extended and the additional sample points (SP-10 through SP-15) did not show benzene, total BTEX, or TPH concentrations above laboratory detection limits. Sample points (SP-1, SP-4, SP-9, SP-10, SP-13, and SP-14) indicated chloride concentrations above RRALs, with concentrations ranging from 820 mg/kg to 4,300 mg/kg, depths ranging from 1.0 ft bgs and 2.0 ft bgs. The remaining sample points (SP-2, SP-3, SP-5, SP-11, SP-12, and SP-15) showed chloride concentrations below RRALs. Additionally, vertical delineation was found in sample points (SP-2, SP-3, SP-5, SP-11, SP-12, and SP-15).

Tetra Tech Sampling Plan

Based on the information provided in the C-141 (nOY1804732368) and the previous data collected in the 2017 sampling activities, Tetra Tech proposes additional sampling to collect current data and to attempt to vertically delineate the remaining impact. Tetra Tech proposes to install approximately nine (9) to twelve (12) trenches throughout the impacted area. Approximately fourteen (14) horizontals will be installed directly outside of the impact to indicate horizontal delineation. Additionally, due to a liner previously being installed in the playa, Tetra Tech will install hand augers in this area to determine if soil above the liner is impacted, if soil is impacted, samples will be installed below the liner as well to ensure the impact did not migrate. Based on the data collected during the trenching and hand auger activities, Tetra Tech will determine a remedial plan to address the remaining impact. The proposed trench locations are shown on **Figure 3**.



If you require any additional information or have any questions or comments, please contact us at (432) 682-4559.

Respectfully submitted,
TETRA TECH

A handwritten signature in blue ink, appearing to read 'Brittany Long'.

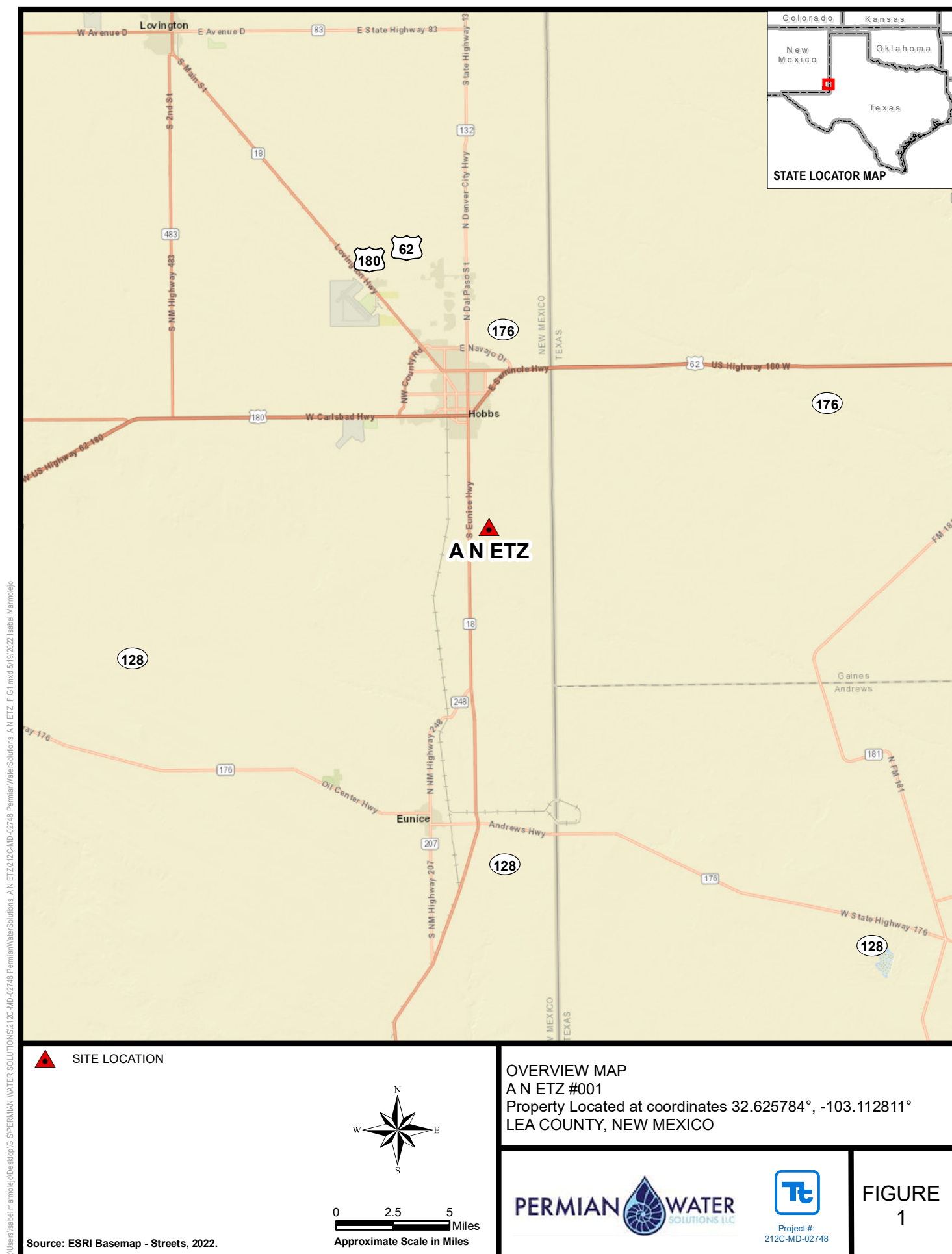
Brittany Long,
Project Manager

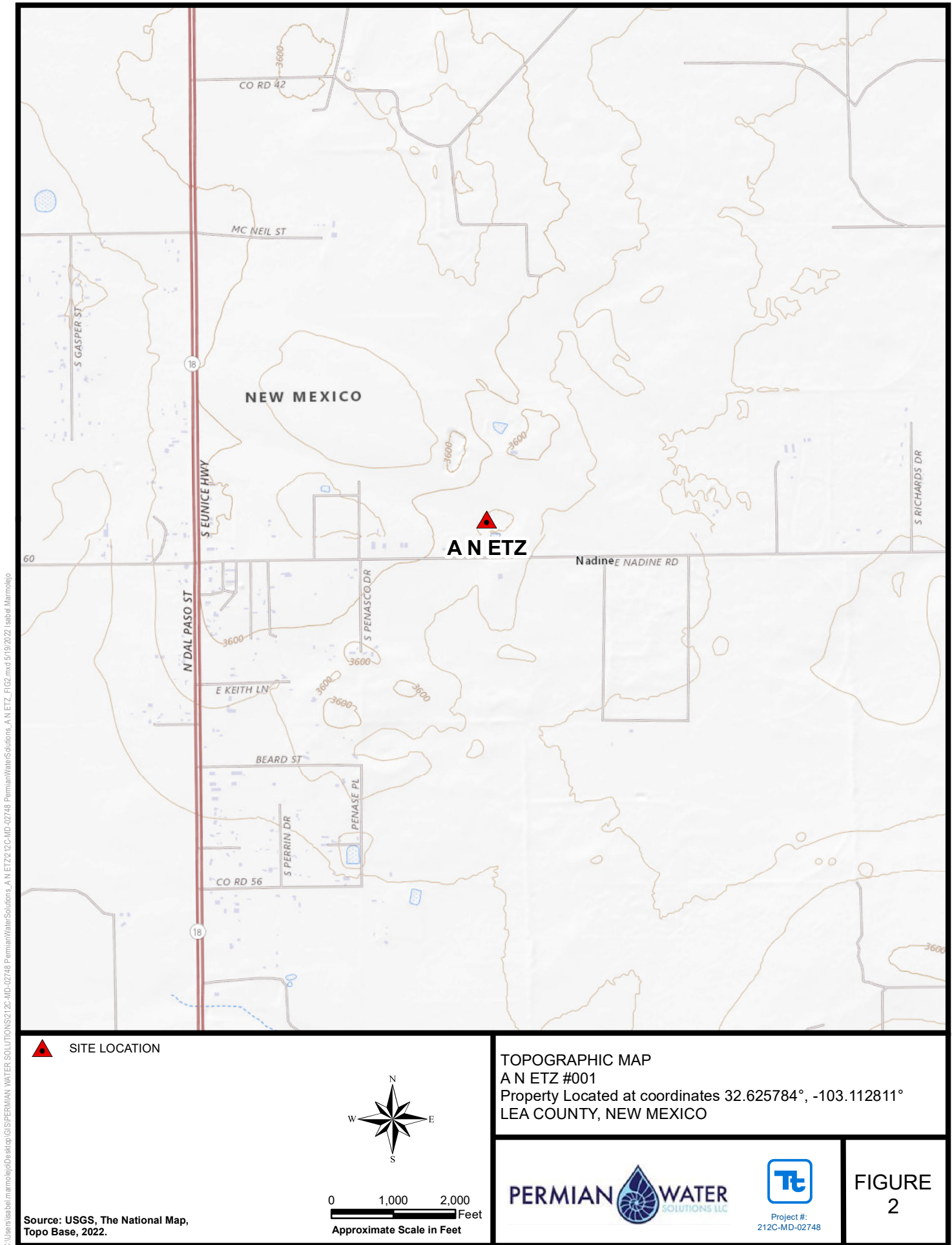
A handwritten signature in blue ink, appearing to read 'Clair Gonzales'.

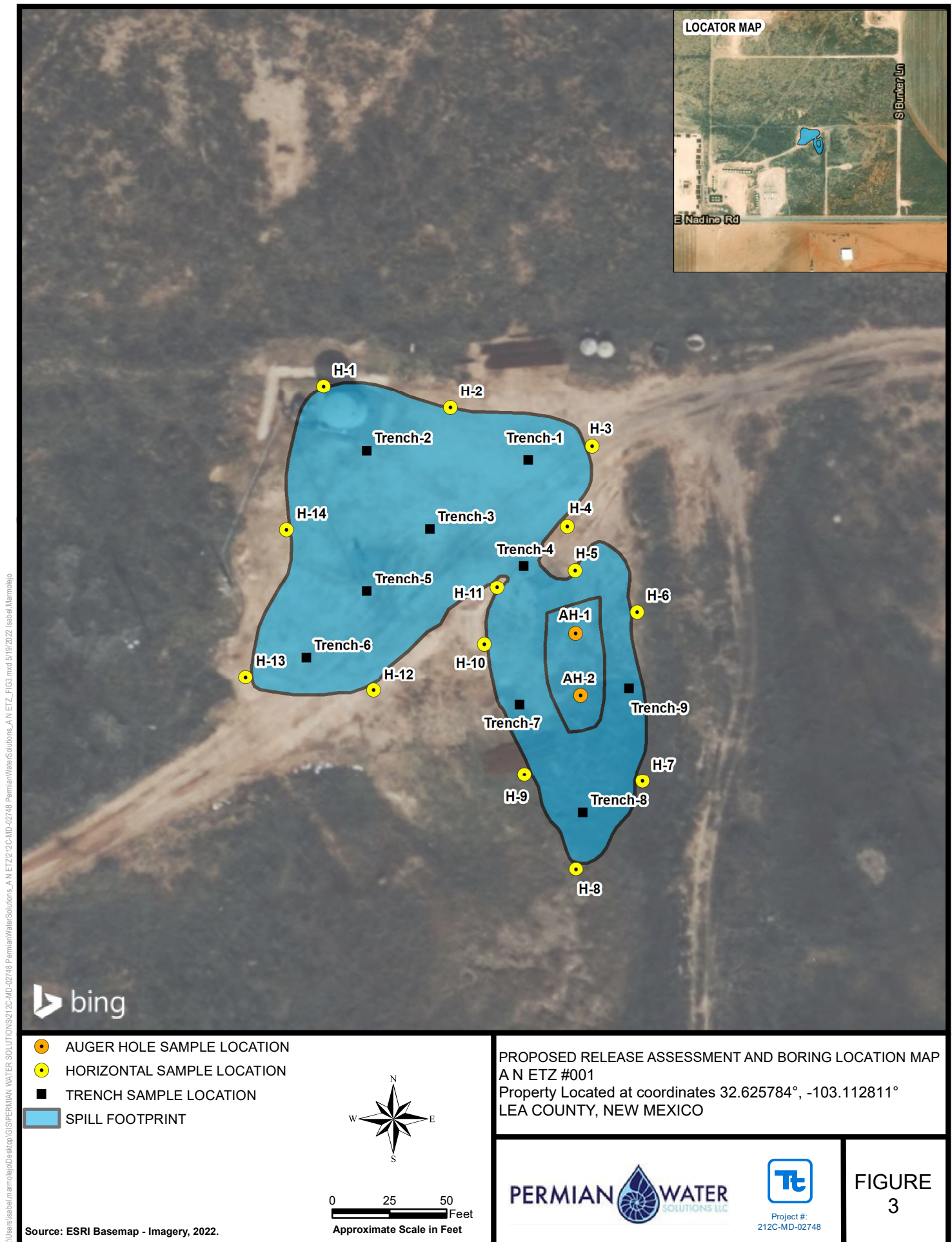
Clair Gonzales, P.G.
Senior Project Manager



Figures









Appendix A

C-141 Document

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: _____	Title: _____
Signature: <u>Jenni Usher</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input 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 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 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 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 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 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 type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input 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.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
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: _____ Title: _____

Signature: Jenni Usher Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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: _____ Title: _____

Signature: Jenni Usher Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

- ☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____




Appendix B

Site Characterization Documents



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		
20C6B	L 14992 POD1	2	1	2	35	19S	38E	676728	3611037		
Driller License: 1641		Driller Company:		A & K WATER WELL DRILLING							
Driller Name:		GLASSPOOLE, KRISTOPHER L.NER									
Drill Start Date: 08/17/2020		Drill Finish Date:		08/20/2020		Plug Date:					
Log File Date: 09/18/2020		PCW Rev Date:				Source:		Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:		50 GPM			
Casing Size: 6.00		Depth Well:		160 feet		Depth Water:		80 feet			
Water Bearing Stratifications:					Top	Bottom	Description				
					80	160	Sandstone/Gravel/Conglomerate				
Casing Perforations:					Top	Bottom					
					120	160					


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.

3/15/22 1:46 PM

POINT OF DIVERSION SUMMARY

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	
Groundwater						New Mexico	GO

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs

site_no list =

- 323714103064801

Minimum number of levels = 1

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

USGS 323714103064801 19S.38E.26.443221

Lea County, New Mexico

Latitude 32°37'14", Longitude 103°06'48" NAD27

Land-surface elevation 3,588 feet above NAVD88

This well is completed in the High Plains aquifer (N100HGHLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1968-03-13		D	62610		3527.62	NGVD29	1	Z		
1968-03-13		D	62611		3528.66	NAVD88	1	Z		
1968-03-13		D	72019	59.34			1	Z		
1971-01-13		D	62610		3527.30	NGVD29	1	Z		
1971-01-13		D	62611		3528.34	NAVD88	1	Z		
1971-01-13		D	72019	59.66			1	Z		
1976-02-10		D	62610		3528.55	NGVD29	1	Z		
1976-02-10		D	62611		3529.59	NAVD88	1	Z		
1976-02-10		D	72019	58.41			1	Z		
1981-01-08		D	62610		3527.80	NGVD29	1	Z		
1981-01-08		D	62611		3528.84	NAVD88	1	Z		
1981-01-08		D	72019	59.16			1	Z		
1986-02-27		D	62610		3531.42	NGVD29	1	Z		
1986-02-27		D	62611		3532.46	NAVD88	1	Z		
1986-02-27		D	72019	55.54			1	Z		

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum
1991-02-06	D	62610	3531.74	NGVD29	1	Z
1991-02-06	D	62611	3532.78	NAVD88	1	Z
1991-02-06	D	72019	55.22		1	Z
1996-03-01	D	62610	3527.92	NGVD29	1	S
1996-03-01	D	62611	3528.96	NAVD88	1	S
1996-03-01	D	72019	59.04		1	S

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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Title: Groundwater for New Mexico: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=323714103064801&agency_cd=USGS&format=html)



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-03-15 16:23:48 EDT

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National Water Information System: Web Interface[USGS Water Resources](#)

Data Category:
Groundwater

Geographic Area:
New Mexico

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Groundwater levels for New Mexico

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site_no list =

- 323727103070601

Minimum number of levels = 1

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

USGS 323727103070601 19S.38E.26.43333

Lea County, New Mexico

Latitude 32°37'27", Longitude 103°07'06" NAD27

Land-surface elevation 3,602 feet above NGVD29

The depth of the well is 145 feet below land surface.

The depth of the hole is 145 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHLN) national aquifer.

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source measure
1994-05-27		D	62610		3534.00	NGVD29	1	L		
1994-05-27		D	62611		3535.04	NAVD88	1	L		
1994-05-27		D	72019	68.00			1	L		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

Section	Code	Description
Status	1	Static
Method of measurement	L	Interpreted from geophysical logs.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions about sites/data?](#)
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=323727103070601&agency_cd=USGS&format=html)



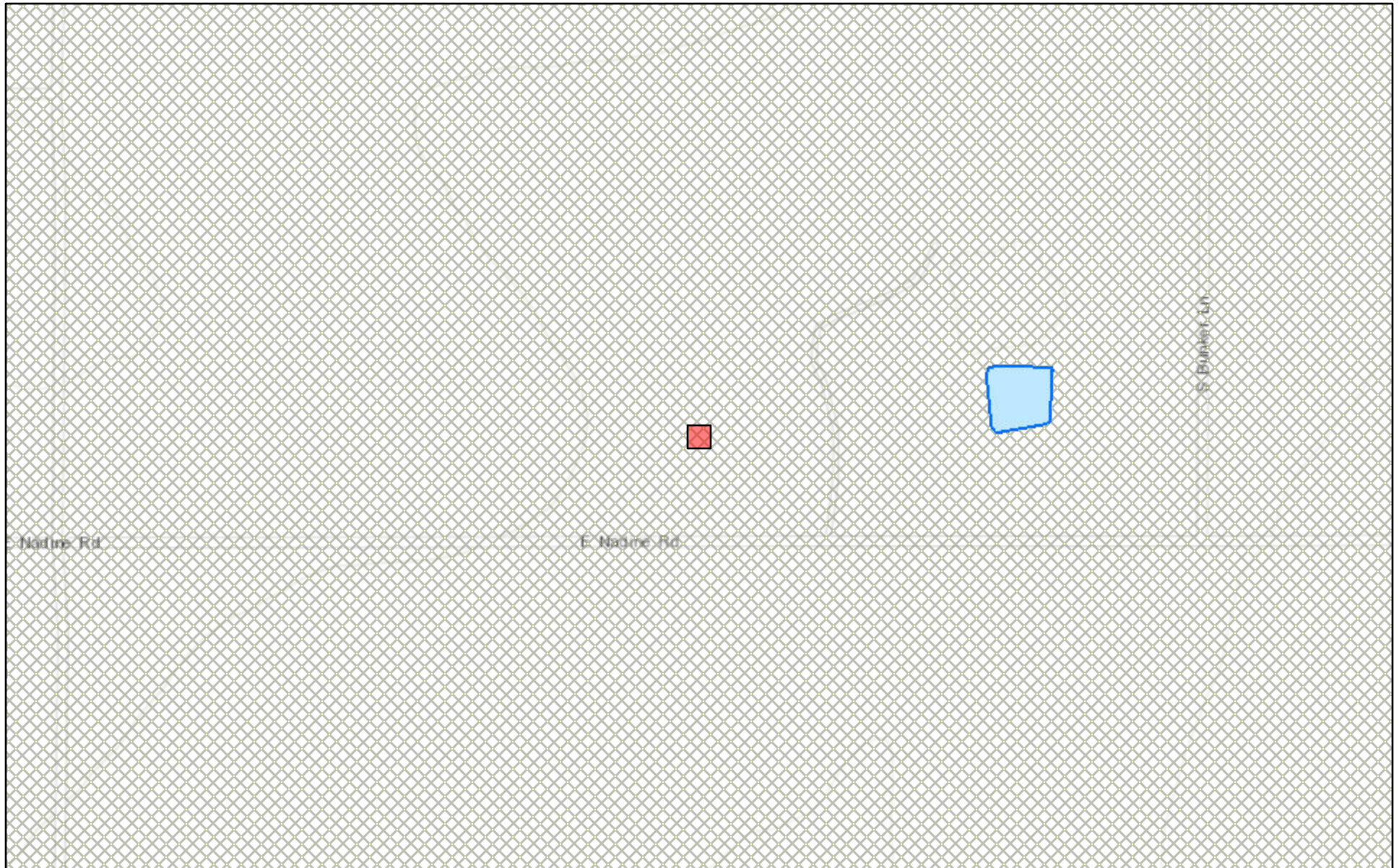
Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2022-03-15 16:24:49 EDT

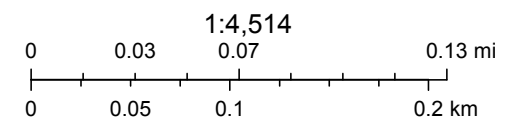
0.36 0.32 nadww01



New Mexico NFHL Data



March 14, 2022







FEMA, Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey,

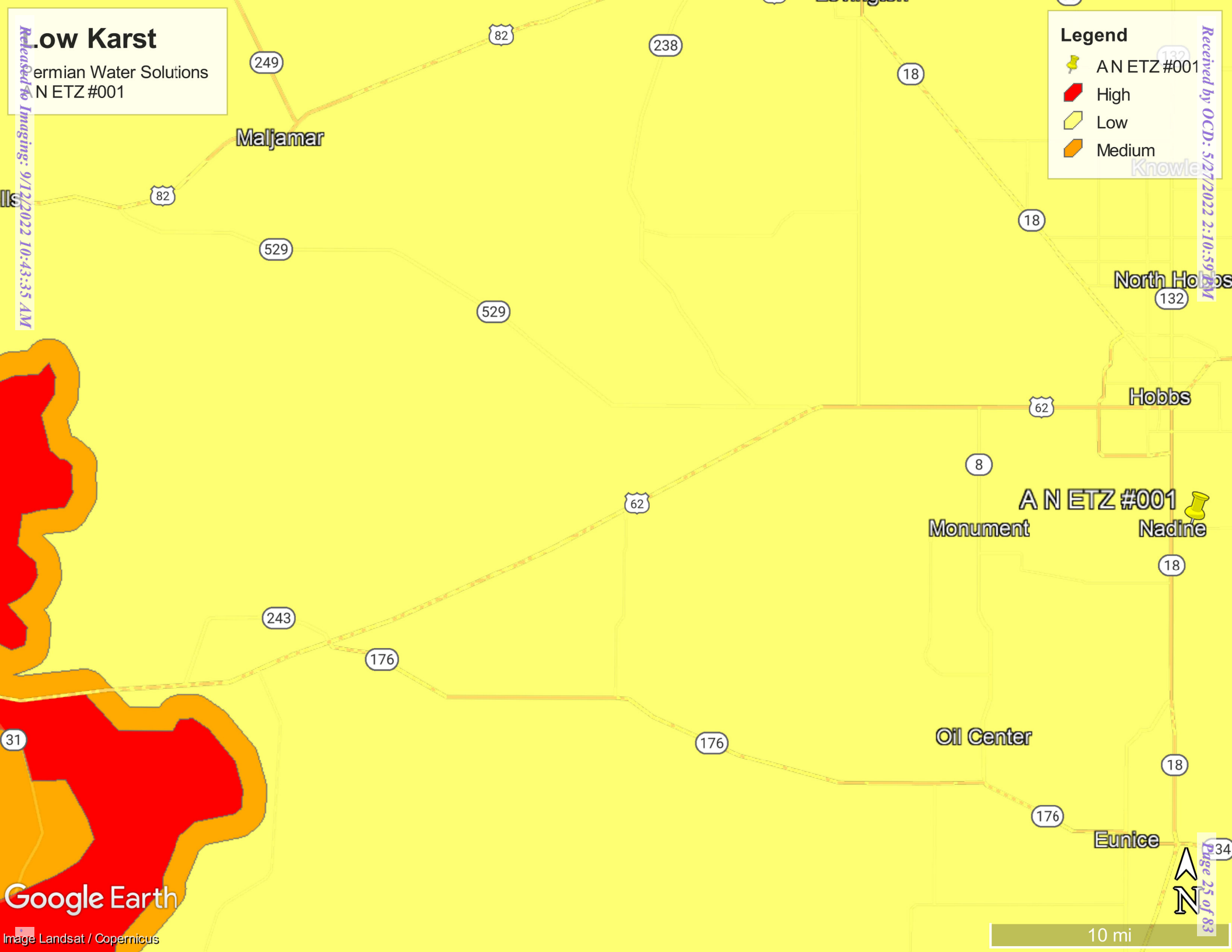
nmflood.org is made possible through a collaboration with NMDHSEM,

This is a non-regulatory product for informational use only. Please consult your local floodplain administrator for further information.

Low Karst
Permian Water Solutions
NETZ #001

Legend

-  A N ETZ #001
-  High
-  Low
-  Medium



Released for Imaging: 9/12/2022 10:43:35 AM

Received by OCD: 5/27/2022 2:10:59 PM



Appendix C

Previous Consultant Reports and Data

NMOCD approves of the proposed additional delineation for 1RP-4968. See email correspondence for stipulations.

APPROVED

By Olivia Yu at 10:22 am, Jul 30, 2018

Basin Environmental Service Technologies, LLC

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
Rrunnels@basinenv.com
Office: (575) 396-2378 Fax: (575) 396-1429



CORRECTIVE ACTION AND SAMPLING PLAN

CAMBRIAN MANAGEMENT, LTD
A N ETZ #001
Lea County, New Mexico
Unit Letter "P" (SW/SW), Section 26, Township 19 South, Range 38 East
Latitude 32.625784 North, Longitude -103.112811 West
NMOCD Reference #: 1RP-4968

Prepared For:

Cambrian Management, Ltd
P.O. Box 272
Midland, Texas 79702

Prepared By:

Basin Environmental Service Technologies, LLC
3100 Plains Highway
Lovington, New Mexico 88260

June 2018



Robbie Runnels
Project Manager

TABLE OF CONTENTS

1.0 INTRODUCTION & BACKGROUND INFORMATION.....	1
2.0 NMOCD SITE CLASSIFICATION.....	1
3.0 BACKGROUND INFORMATION.....	1
4.0 SAMPLING PLAN.....	2
5.0 CORRECTIVE ACTION PLAN.....	2
6.0 LIMITATIONS.....	3
7.0 DISTRIBUTION.....	4

FIGURES

Figure 1 – Site Location Map

Figure 2 – Depth to Groundwater Map

Figure 3 – Proposed Sample Points Map

TABLES

Table 1 – Concentrations of BTEX, TPH & Chloride in Soil

APPENDICES

Appendix A – Release Notification and Corrective Action (Form C-141)

Appendix B – Laboratory Analytical Reports

1.0 INTRODUCTION

Cambrian Management, Ltd (Cambrian) has retained Basin Environmental Service Technologies (Basin) to address potential environmental concerns at the above-referenced site.

2.0 NMOCD SITE CLASSIFICATION

The site is located approximately nine tenths (0.9) miles east of Nadine, New Mexico at Unit Letter P of Section 26 in Township 19 South of Range 38 East. (See Figure 1) A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated numerous water wells located at Section 26, Township 19 South, Range 38 East. Utilizing the Water Incident Database (WAID), and averaging the information with the NMOSE information, this site is located in an area where groundwater could be encountered at a depth of sixty-five (65) +/- feet below ground surface (bgs) (See Figure 2).

3.0 BACKGROUND INFORMATION

At some point in the past, a release occurred at the same location. An environmental company remediated the release and placed a liner. The current release envelopes the area surrounding the liner. If the integrity of the liner is compromised during sampling or remediation, the entire liner will be replaced.

On July 15th, 2017, Permian Water Service (Operator for Cambrian) discovered a release of an estimated one-hundred fifty (150) barrels (bbls) of produced water when a water line failed. The release impacted approximately nineteen-thousand six-hundred and thirty-four square feet (19,634 ft²) of the gypsum (caliche) pad and pasture. Approximately one-hundred thirty (130) bbls of the fluids were recovered. The New Mexico Oil Conservation Division (NMOCD) was notified of the release on February 16th, 2018. An initial Release Notification and Corrective Action form (C-141) was submitted to NMOCD on February 16th, 2018, for approval.

Trinity Oilfield Services & Rentals, LLC (Trinity) were on site beginning July 27th, 2017, to begin sampling activities. Nine (9) discrete soil sample locations were established with a soil-boring hand auger. The soil borings were advanced to approximately one and one-half feet (1.5') bgs. Vertical delineation was achieved for the soil sample points "3", "6" and "8" retrieved at a depth of 1.5'. Further advancement of soil borings was required for the delineation of chlorides. All soil samples analyzed in a NMOCD approved laboratory indicated delineation had been achieved for Total Petroleum Hydrocarbons (TPH) as well as Benzene, Toluene, Ethyl-benzene, and Xylenes (BTEX).

On December 11th, 2017, six (6) more sample points (SP-10 through SP 15) were established by Trinity utilizing a hand auger. Trinity also advanced the sample point "5" to a depth of three (3) feet bgs. The new sample points were advanced to one-foot bgs. Laboratory analytical indicated sample points in the area of "5", "11", "12", and "15" were delineated for all constituents of interest.

4.0 SAMPLING PLAN

The perimeter of the impacted area will be sampled utilizing a hand auger/geo probe (when possible) in approximate fifty (50) foot increments to establish the horizontal extent of the impact (See *Proposed Sample Points*). Surface and 1' bgs samples will be retrieved and field screened for chloride concentration. In the instance that the field screens indicate the chloride concentration to be below the recommended remediation action level (RRAL) presumed to be 600 mg/kg, the sample point will be moved inward approximately five (5) feet and reestablished until the field screens indicate a chloride concentration of 600 mg/kg or greater at the 1' bgs level. The sample point will then be delineated to below 600 mg/kg and serve as the horizontal extent wall of the ensuing excavation. Discrete soil samples will be submitted to an NMOCD approved laboratory for confirmatory analysis.

In the event the perimeter samples have a chloride concentration greater than 600 mg/kg, the sample point will be established at the perimeter and delineated. During excavation, the excavated wall will be sampled to determine the horizontal extent of the impact.

Sample points within the impacted area will be delineated to below 600 mg/kg for chloride concentration. Confirmatory soil samples will be delivered to an NMOCD laboratory for analysis.

Because the initial sampling performed by Trinity showed no presence of any hydrocarbons of interest at any location greater than the method detection limit set by the laboratory, TPH and BTEX will not be further analyzed.

5.0 CORRECTIVE ACTION PLAN

At the time of remediation and if delineation did not occur at or before the four (4) foot bgs level, the impacted area will be excavated to a depth of 4' and a impermeable 20-mil plastic liner will be installed to prevent the migration of the remaining chlorides from reaching the groundwater below. The liner will also prevent percolation into the vadose zone.

Once fully remediated, the floor of the excavation will be sampled (where a liner is not required) as well as the walls. The wall samples, taken at approximately 50' intervals, will ensure that the horizontal impact of the release is captured in the remediation process.

At the completion of excavation activities, the caliche pad will be restored by placing non-impacted soils and contouring to the surrounding area. The pasture area will be backfilled with clean, non-impacted soils and contoured to the surrounding area. The pasture area will be seeded with a blend of native, non-invasive or noxious species approved by the land owner at time conducive for germination.

6.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Corrective Action and Sampling Plan* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Basin Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental 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 Cambrian Management, Ltd. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Cambrian Management, Ltd.

7.0 DISTRIBUTION:

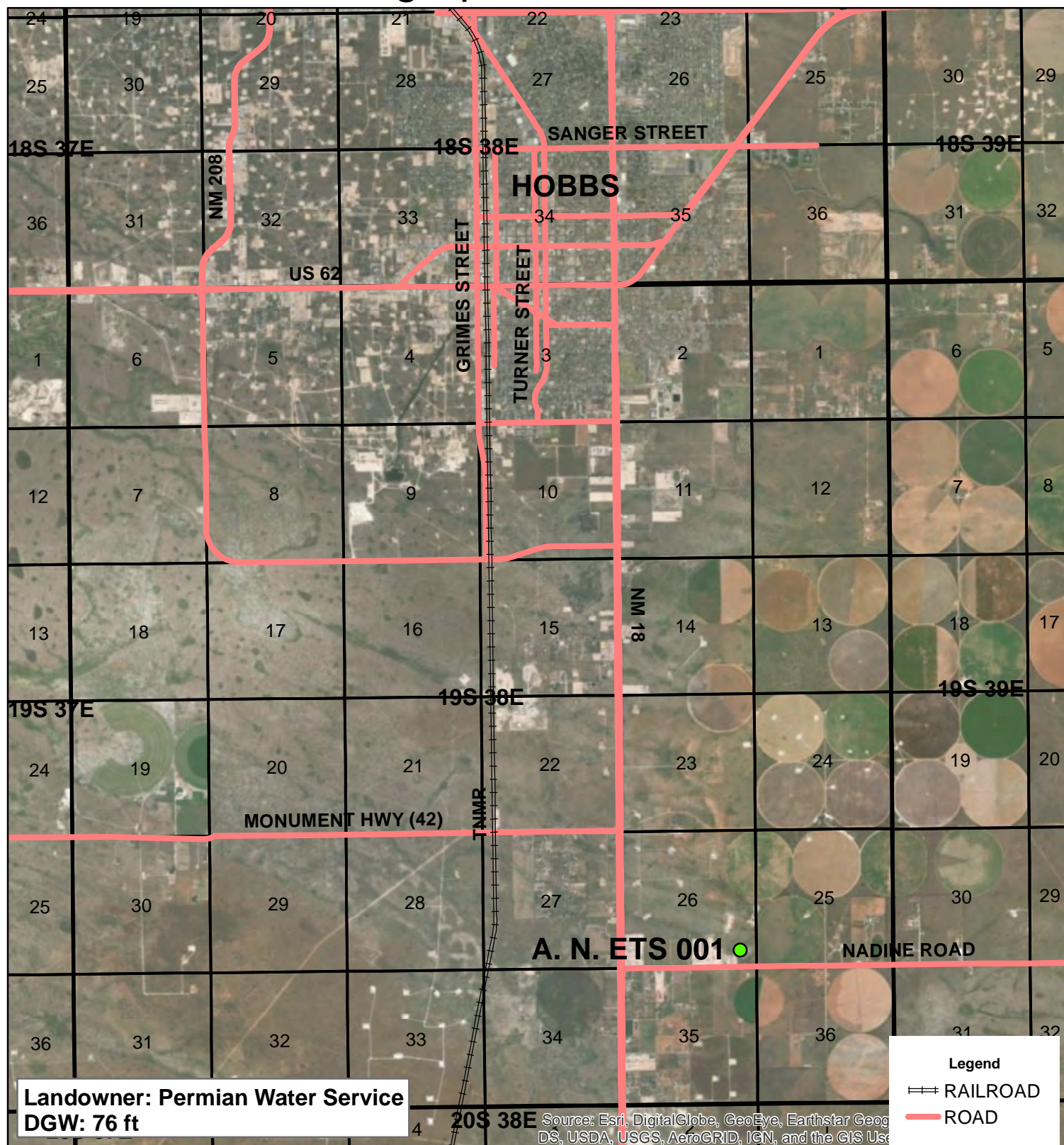
Copy 1: Olivia Yu
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 N French Drive
Hobbs, NM 88240

Copy 2: Andrew Rickard
Cambrian Management, Ltd
415 W Wall Street
Midland, TX 79701

Copy 3: Basin Environmental Service Technologies, LLC
P.O. Box 301
Lovington, New Mexico 88260

FIGURES

Geographic Location



CAMBRIAN
A N ETS 001
 1RP-4968

UL P SECTION 26
 T-19-S R-38-E
 LEA COUNTY, NM

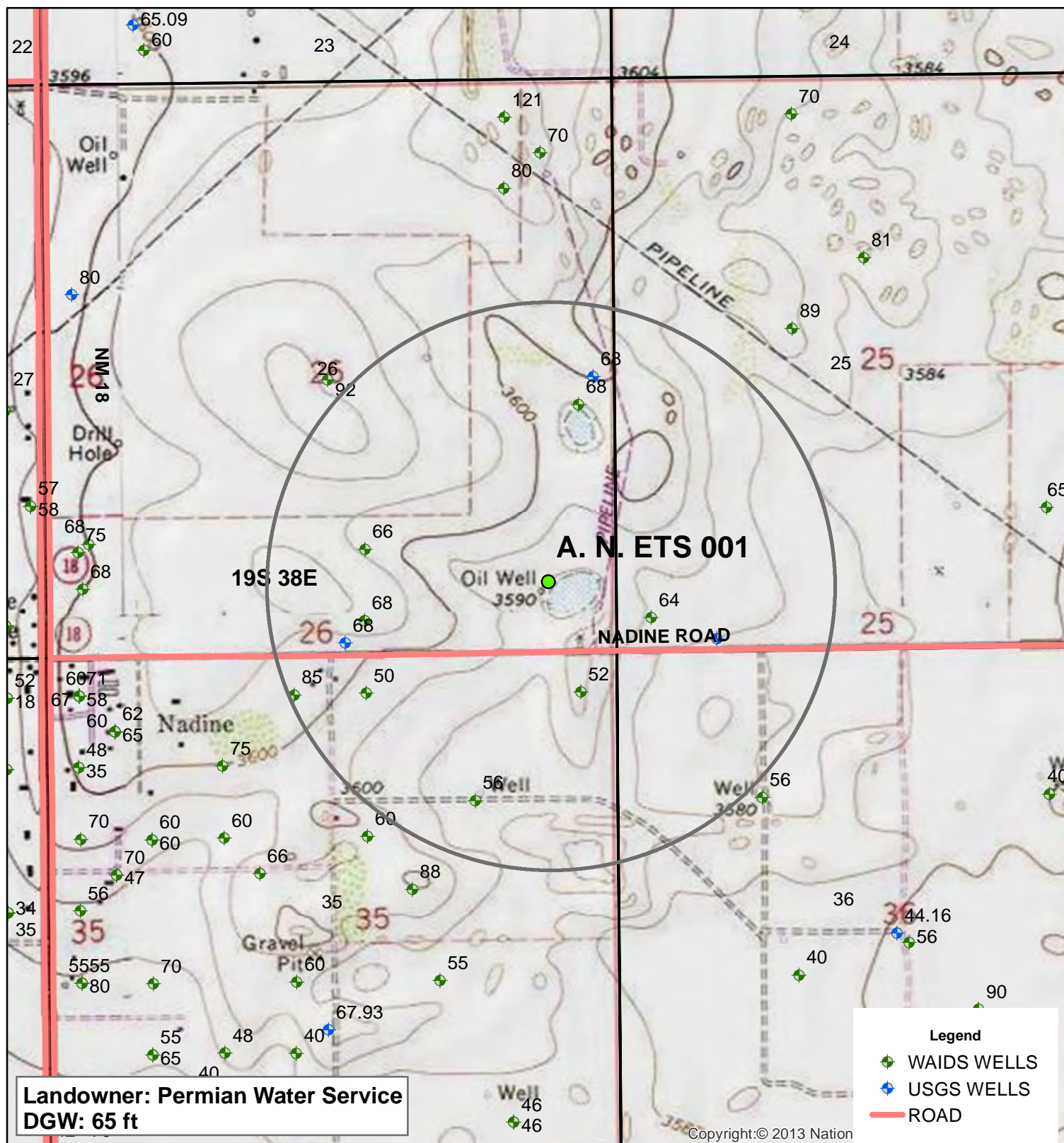
GPS: 32.625759 -103.112667

0 0.5 1
 Miles

Drawing date: 6/14/18
 Drafted by: T. Grieco



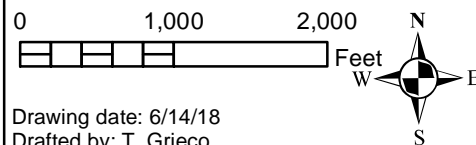
Depth to Groundwater



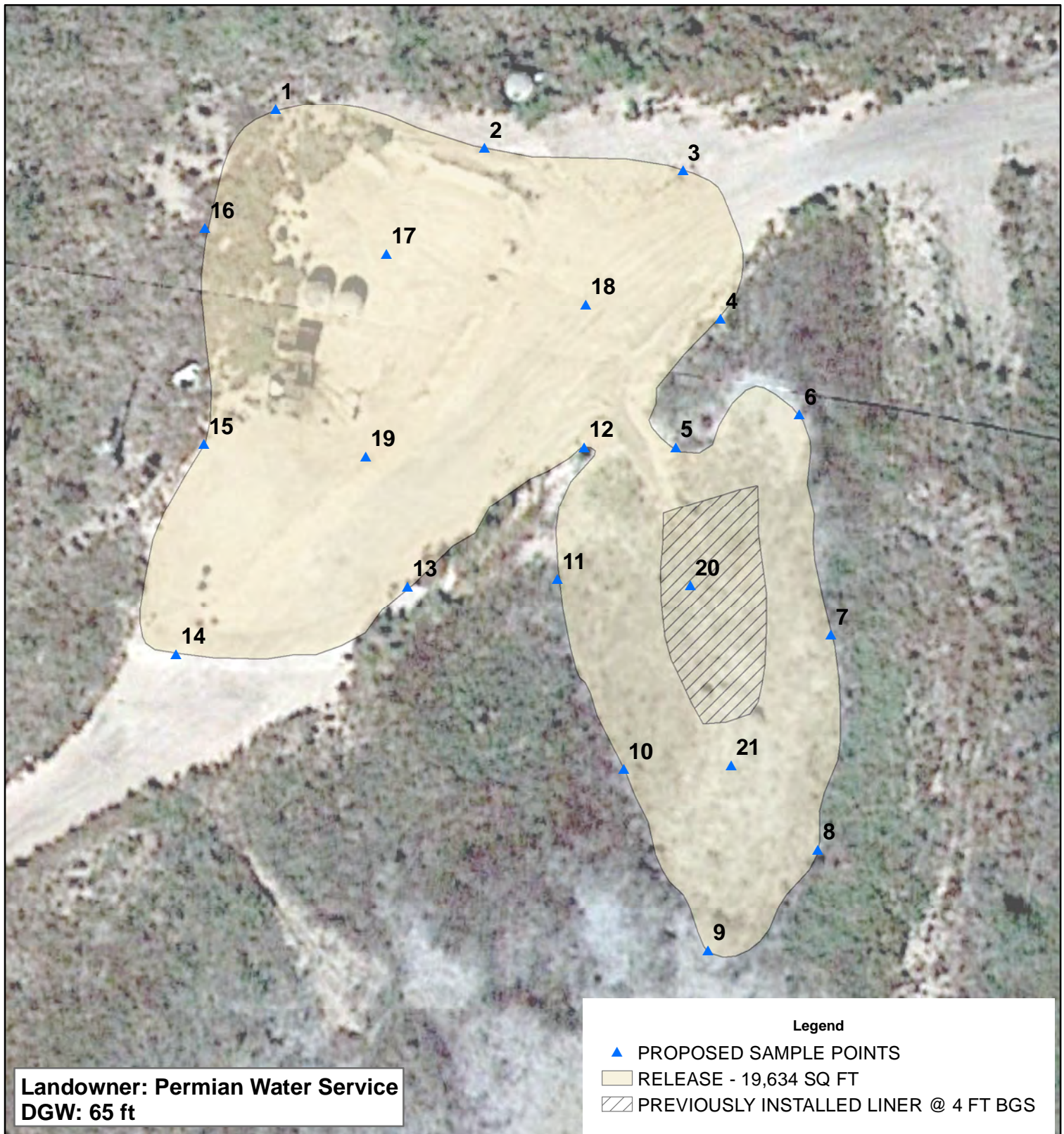
***CAMBRIAN
ANETS 001
1RP-4968***

**UL P SECTION 26
T-19-S R-38-E
LEA COUNTY, NM**

GPS: 32.625759 -103.112667



Proposed Sample Points



CAMBRIAN
A N ETS 001
1RP-4968

UL P SECTION 26
T-19-S R-38-E
LEA COUNTY, NM

TABLES

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

CAMBRIAN MANAGEMENT
A N ETZ 001
LEA COUNTY, NEW MEXICO
NMOCD REF. #: 1RP-4968



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M				300.1
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C ₆ -C ₁₂ (mg/Kg)	DRO C ₁₂ -C ₂₈ (mg/Kg)	EXT DRO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₃₅ (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	50	NE	NE	NE	100	250
SP-1 @ 1.5'	1.5'	7/27/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,190
SP-1 @ 2'	2'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,300
SP-2 @ 1.5'	1.5'	7/27/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,040
SP-2 @ 2'	2'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	253
SP-3 @ 1.5'	1.5'	7/27/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	417
SP-3 @ 2'	2'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	39.0
SP-4 @ 1.5'	1.5'	7/27/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,270
SP-4 @ 2'	2'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	971
SP-5 @ 1.5'	1.5'	7/27/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	972
SP-5 @ 2'	2'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	565
SP-5 @ 3'	3'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	490
SP-6 @ 1.5'	1.5'	7/27/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	17.6
SP-8 @ 1.5'	1.5'	7/27/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	560
SP-9 @ 1.5'	1.5'	7/27/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,550
SP-9 @ 2'	2'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	828
SP-10 @ 1'	1'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	820
SP-11 @ 1'	1'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	12.9
SP-12 @ 1'	1'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	23.7
SP-13 @ 1'	1'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,380
SP-14 @ 1'	1'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,860
SP-15 @ 1'	1'	12/11/2017	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs

APPENDICES

APPENDIX – A

C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised April 3, 2017

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

X Initial Report ☐ Final Report

Name of Company Cambrian Management, Ltd	Contact Mike Anthony
Address PO Box 272, Midland, TX 79702	Telephone No. 432-631-4398
Facility Name A N ETZ	Facility Type Salt Water Disposal
Surface Owner Permian Water Service	Mineral Owner Permian Water Service
API No. 30-025-07713	

LOCATION OF RELEASE

Unit Letter P	Section 26	Township 19S	Range 38E	Feet from the 660	North/South Line South	Feet from the 660	East/West Line East	County Lea
------------------	---------------	-----------------	--------------	----------------------	---------------------------	----------------------	------------------------	---------------

Latitude 32.625784 Longitude -103.112811 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 150 bbls	Volume Recovered 130 bbls
Source of Release Water Line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 7-15-2017
Was Immediate Notice Given? <input type="checkbox"/> Yes X No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes X No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

RECEIVED

By Olivia Yu at 8:54 am, Feb 16, 2018

Describe Cause of Problem and Remedial Action Taken.*

Water line busted and we immediately picked up all water possible – approximately 130 bbls

Describe Area Affected and Cleanup Action Taken.*

The release affected a total area of the well pad, caliche access road, and adjacent pasture measuring approximately 10,000 sq ft. Remediation of the impacted area will be conducted in accordance with NMOCD and NMSLO guidelines.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: Denise Jones	OIL CONSERVATION DIVISION	
Printed Name: Denise Jones	Approved by Environmental Specialist:	
Title: Regulatory Analyst	Approval Date: 2/16/2018	Expiration Date:
E-mail Address: djones@cambrionmgmt.com	Conditions of Approval:	Attached <input checked="" type="checkbox"/>
Date: 2-13-18 Phone: 432-620-9181	see attached directive	

* Attach Additional Sheets If Necessary

1RP-4968

nOY1804732368

pOY1804732617

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/14/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-4968 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 3/16/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

APPENDIX – B

Analytical Reports

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

August 10, 2017

BEN ARGUIJO

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: A N ETZ 001

Enclosed are the results of analyses for samples received by the laboratory on 07/28/17 9:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1 @ 1.5'	H701975-01	Soil	27-Jul-17 16:24	28-Jul-17 09:50
SP-2 @ 1.5'	H701975-02	Soil	27-Jul-17 16:28	28-Jul-17 09:50
SP-3 @ 1.5'	H701975-03	Soil	27-Jul-17 16:31	28-Jul-17 09:50
SP-4 @ 1.5'	H701975-04	Soil	27-Jul-17 16:20	28-Jul-17 09:50
SP-5 @ 1.5'	H701975-05	Soil	27-Jul-17 16:39	28-Jul-17 09:50
SP-6 @ 1.5'	H701975-06	Soil	27-Jul-17 16:42	28-Jul-17 09:50
SP-8 @ 1.5'	H701975-07	Soil	27-Jul-17 16:45	28-Jul-17 09:50
SP-9 @ 1.5'	H701975-08	Soil	27-Jul-17 16:34	28-Jul-17 09:50

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

SP-1 @ 1.5'
H701975-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050	0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Toluene*	<0.050	0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		102 %		72-148	7072808	MS	30-Jul-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0	10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
DRO >C10-C28	<10.0	10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
Surrogate: 1-Chlorooctane		96.5 %		28.3-164	7072806	MS	29-Jul-17	8015B	
Surrogate: 1-Chlorooctadecane		100 %		34.7-157	7072806	MS	29-Jul-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	4190	200	mg/kg wet	200	B708046	JDA	09-Aug-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

SP-2 @ 1.5'
H701975-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7072808	MS	30-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	72-148		7072808	MS	30-Jul-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			107 %	28.3-164		7072806	MS	29-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			110 %	34.7-157		7072806	MS	29-Jul-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	2040		100	mg/kg wet	100	B708046	JDA	09-Aug-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

SP-3 @ 1.5'
H701975-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	72-148		7072808	MS	30-Jul-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
Surrogate: 1-Chlorooctane			95.4 %	28.3-164		7072806	MS	29-Jul-17	8015B	
Surrogate: 1-Chlorooctadecane			101 %	34.7-157		7072806	MS	29-Jul-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	417		10.0	mg/kg wet	10	B708046	JDA	09-Aug-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

SP-4 @ 1.5'
H701975-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7072808	MS	30-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	72-148		7072808	MS	30-Jul-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			93.9 %	28.3-164		7072806	MS	29-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			100 %	34.7-157		7072806	MS	29-Jul-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	4270		200	mg/kg wet	200	B708046	JDA	09-Aug-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

SP-5 @ 1.5'
H701975-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7072808	MS	30-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7072808	MS	30-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	72-148		7072808	MS	30-Jul-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7072806	MS	29-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			87.4 %	28.3-164		7072806	MS	29-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			89.6 %	34.7-157		7072806	MS	29-Jul-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	972		100	mg/kg wet	100	B708046	JDA	09-Aug-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

SP-6 @ 1.5'
H701975-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7073102	MS	31-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	72-148		7073102	MS	31-Jul-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	7073101	MS	31-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7073101	MS	31-Jul-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7073101	MS	31-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			92.3 %	28.3-164		7073101	MS	31-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			97.0 %	34.7-157		7073101	MS	31-Jul-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	17.6		10.0	mg/kg wet	10	B708046	JDA	09-Aug-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

SP-8 @ 1.5'
H701975-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7073102	MS	31-Jul-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	72-148		7073102	MS	31-Jul-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	7073101	MS	31-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7073101	MS	31-Jul-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7073101	MS	31-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			88.9 %	28.3-164		7073101	MS	31-Jul-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			94.5 %	34.7-157		7073101	MS	31-Jul-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	560		50.0	mg/kg wet	50	B708046	JDA	09-Aug-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

SP-9 @ 1.5'
H701975-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7073102	MS	31-Jul-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-148		7073102	MS	31-Jul-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	<10.0		10.0	mg/kg	1	7073101	MS	31-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7073101	MS	31-Jul-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7073101	MS	31-Jul-17	8015B	
Surrogate: 1-Chlorooctane			88.2 %	28.3-164		7073101	MS	31-Jul-17	8015B	
Surrogate: 1-Chlorooctadecane			92.8 %	34.7-157		7073101	MS	31-Jul-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	1550		100	mg/kg wet	100	B708046	JDA	09-Aug-17	EPA300.0	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7072808 - Volatiles**Blank (7072808-BLK1)**

Prepared: 28-Jul-17 Analyzed: 29-Jul-17

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	72-148			

LCS (7072808-BS1)

Prepared: 28-Jul-17 Analyzed: 29-Jul-17

Benzene	1.93	0.050	mg/kg	2.00		96.6	79.5-124			
Toluene	1.80	0.050	mg/kg	2.00		89.9	75.5-127			
Ethylbenzene	1.88	0.050	mg/kg	2.00		93.9	77.7-125			
Total Xylenes	5.68	0.150	mg/kg	6.00		94.6	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.7	72-148			

LCS Dup (7072808-BSD1)

Prepared: 28-Jul-17 Analyzed: 29-Jul-17

Benzene	1.94	0.050	mg/kg	2.00		96.9	79.5-124	0.304	6.5	
Toluene	1.81	0.050	mg/kg	2.00		90.6	75.5-127	0.754	7.02	
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.5	77.7-125	0.466	7.83	
Total Xylenes	5.65	0.150	mg/kg	6.00		94.2	70.9-124	0.464	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	72-148			

Batch 7073102 - Volatiles**Blank (7073102-BLK1)**

Prepared & Analyzed: 31-Jul-17

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500		104	72-148			

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 7073102 - Volatiles**LCS (7073102-BS1)**

Prepared & Analyzed: 31-Jul-17

Benzene	2.13	0.050	mg/kg	2.00		107	79.5-124			
Toluene	1.98	0.050	mg/kg	2.00		99.1	75.5-127			
Ethylbenzene	2.07	0.050	mg/kg	2.00		104	77.7-125			
Total Xylenes	6.23	0.150	mg/kg	6.00		104	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	72-148			

LCS Dup (7073102-BS1)

Prepared & Analyzed: 31-Jul-17

Benzene	2.12	0.050	mg/kg	2.00		106	79.5-124	0.340	6.5	
Toluene	2.00	0.050	mg/kg	2.00		99.9	75.5-127	0.837	7.02	
Ethylbenzene	2.07	0.050	mg/kg	2.00		104	77.7-125	0.0768	7.83	
Total Xylenes	6.27	0.150	mg/kg	6.00		104	70.9-124	0.614	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	72-148			

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7072806 - General Prep - Organics**Blank (7072806-BLK1)**

Prepared & Analyzed: 28-Jul-17

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	55.1		mg/kg	50.0		110	28.3-164			
Surrogate: 1-Chlorooctadecane	59.3		mg/kg	50.0		119	34.7-157			

LCS (7072806-BS1)

Prepared & Analyzed: 28-Jul-17

GRO C6-C10	216	10.0	mg/kg	200		108	76.6-119			
DRO >C10-C28	227	10.0	mg/kg	200		114	81.4-124			
Total TPH C6-C28	443	10.0	mg/kg	400		111	79.4-121			
Surrogate: 1-Chlorooctane	62.1		mg/kg	50.0		124	28.3-164			
Surrogate: 1-Chlorooctadecane	65.6		mg/kg	50.0		131	34.7-157			

LCS Dup (7072806-BSD1)

Prepared & Analyzed: 28-Jul-17

GRO C6-C10	210	10.0	mg/kg	200		105	76.6-119	2.77	7.94	
DRO >C10-C28	222	10.0	mg/kg	200		111	81.4-124	2.33	9.83	
Total TPH C6-C28	432	10.0	mg/kg	400		108	79.4-121	2.54	8.57	
Surrogate: 1-Chlorooctane	60.5		mg/kg	50.0		121	28.3-164			
Surrogate: 1-Chlorooctadecane	65.8		mg/kg	50.0		132	34.7-157			

Batch 7073101 - General Prep - Organics**Blank (7073101-BLK1)**

Prepared & Analyzed: 31-Jul-17

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.0	28.3-164			
Surrogate: 1-Chlorooctadecane	53.2		mg/kg	50.0		106	34.7-157			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7073101 - General Prep - Organics**LCS (7073101-BS1)**

Prepared & Analyzed: 31-Jul-17

GRO C6-C10	200	10.0	mg/kg	200		99.8	76.6-119			
DRO >C10-C28	207	10.0	mg/kg	200		103	81.4-124			
Total TPH C6-C28	406	10.0	mg/kg	400		102	79.4-121			
Surrogate: 1-Chlorooctane	57.2		mg/kg	50.0		114	28.3-164			
Surrogate: 1-Chlorooctadecane	58.1		mg/kg	50.0		116	34.7-157			

LCS Dup (7073101-BS1)

Prepared & Analyzed: 31-Jul-17

GRO C6-C10	195	10.0	mg/kg	200		97.5	76.6-119	2.36	7.94	
DRO >C10-C28	201	10.0	mg/kg	200		101	81.4-124	2.64	9.83	
Total TPH C6-C28	396	10.0	mg/kg	400		99.1	79.4-121	2.50	8.57	
Surrogate: 1-Chlorooctane	53.8		mg/kg	50.0		108	28.3-164			
Surrogate: 1-Chlorooctadecane	56.9		mg/kg	50.0		114	34.7-157			

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
10-Aug-17 14:40

Soluble (DI Water Extraction) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B708046 - General Prep - Wet Chem**Blank (B708046-BLK1)**

Prepared: 07-Aug-17 Analyzed: 09-Aug-17

Chloride	ND	1.00	mg/kg wet							
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LCS (B708046-BS1)

Prepared: 07-Aug-17 Analyzed: 09-Aug-17

Chloride	239	10.0	mg/kg wet	250		95.7	85-115			
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LCS Dup (B708046-BSD1)

Prepared: 07-Aug-17 Analyzed: 09-Aug-17

Chloride	242	10.0	mg/kg wet	250		96.6	85-115	0.915	20	
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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager

**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

[illegible]



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

December 27, 2017

BEN ARGUIJO

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: A N ETZ 001

Enclosed are the results of analyses for samples received by the laboratory on 12/12/17 14:58.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
S.P. -1 @ 2'	H703440-01	Soil	11-Dec-17 11:15	12-Dec-17 14:58
S.P. -2 @ 2'	H703440-02	Soil	11-Dec-17 11:23	12-Dec-17 14:58
S.P. -3 @ 2'	H703440-03	Soil	11-Dec-17 11:30	12-Dec-17 14:58
S.P. -4 @ 2'	H703440-04	Soil	11-Dec-17 11:45	12-Dec-17 14:58
S.P. -5 @ 2'	H703440-05	Soil	11-Dec-17 12:04	12-Dec-17 14:58
S.P. -5 @ 3'	H703440-06	Soil	11-Dec-17 12:40	12-Dec-17 14:58
S.P. -9 @ 2'	H703440-07	Soil	11-Dec-17 12:55	12-Dec-17 14:58
S.P. -10 @ 1'	H703440-08	Soil	11-Dec-17 13:05	12-Dec-17 14:58
S.P. -11 @ 1'	H703440-09	Soil	11-Dec-17 13:15	12-Dec-17 14:58
S.P. -12 @ 1'	H703440-10	Soil	11-Dec-17 13:25	12-Dec-17 14:58
S.P. -13 @ 1'	H703440-11	Soil	11-Dec-17 13:35	12-Dec-17 14:58
S.P. -14 @ 1'	H703440-12	Soil	11-Dec-17 13:45	12-Dec-17 14:58
S.P. -15 @ 1'	H703440-13	Soil	11-Dec-17 14:00	12-Dec-17 14:58

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -1 @ 2'
H703440-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.3 %	72-148		7122008	MS	21-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
Surrogate: 1-Chlorooctane			99.0 %	28.3-164		7121506	MS	16-Dec-17	8015B	
Surrogate: 1-Chlorooctadecane			101 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	4300		100	mg/kg wet	100	B712139	JDA	21-Dec-17	EPA300.0	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -2 @ 2'
H703440-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	21-Dec-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.4 %	72-148		7122008	MS	21-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			89.7 %	28.3-164		7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			89.1 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	253		10.0	mg/kg wet	10	B712139	JDA	20-Dec-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -3 @ 2'
H703440-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	21-Dec-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.9 %	72-148		7122008	MS	21-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			90.1 %	28.3-164		7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			91.1 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	39.0		10.0	mg/kg wet	10	B712139	JDA	20-Dec-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -4 @ 2'
H703440-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	21-Dec-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.2 %	72-148		7122008	MS	21-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			101 %	28.3-164		7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			102 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	971		50.0	mg/kg wet	50	B712139	JDA	21-Dec-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -5 @ 2'
H703440-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	21-Dec-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.0 %	72-148		7122008	MS	21-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			95.0 %	28.3-164		7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			96.3 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	565		20.0	mg/kg wet	20	B712139	JDA	21-Dec-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -5 @ 3'
H703440-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	21-Dec-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.8 %	72-148		7122008	MS	21-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			83.7 %	28.3-164		7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			83.3 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	490		20.0	mg/kg wet	20	B712139	JDA	21-Dec-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -9 @ 2'
H703440-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	21-Dec-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.3 %	72-148		7122008	MS	21-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			93.5 %	28.3-164		7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			92.3 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	828		20.0	mg/kg wet	20	B712139	JDA	21-Dec-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -10 @ 1'
H703440-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	21-Dec-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			97.6 %	72-148		7122008	MS	21-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			99.9 %	28.3-164		7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			100 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	820		20.0	mg/kg wet	20	B712139	JDA	21-Dec-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -11 @ 1'
H703440-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	21-Dec-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.1 %	72-148		7122008	MS	21-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			101 %	28.3-164		7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			101 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	12.9		10.0	mg/kg wet	10	B712139	JDA	21-Dec-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -12 @ 1'
H703440-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			96.4 %	72-148		7122008	MS	21-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
Surrogate: 1-Chlorooctane			93.8 %	28.3-164		7121506	MS	16-Dec-17	8015B	
Surrogate: 1-Chlorooctadecane			95.9 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	23.7		10.0	mg/kg wet	10	B712139	JDA	21-Dec-17	EPA300.0	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -13 @ 1'
H703440-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	21-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	21-Dec-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.4 %	72-148		7122008	MS	21-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			84.9 %	28.3-164		7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			85.2 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	2380		50.0	mg/kg wet	50	B712139	JDA	21-Dec-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -14 @ 1'
H703440-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	22-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	22-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	22-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	22-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	22-Dec-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.4 %	72-148		7122008	MS	22-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			97.8 %	28.3-164		7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			97.8 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	1860		50.0	mg/kg wet	50	B712139	JDA	21-Dec-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

S.P. -15 @ 1'
H703440-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8021**

Benzene*	<0.050		0.050	mg/kg	50	7122008	MS	22-Dec-17	8021B	
Toluene*	<0.050		0.050	mg/kg	50	7122008	MS	22-Dec-17	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	7122008	MS	22-Dec-17	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	7122008	MS	22-Dec-17	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	7122008	MS	22-Dec-17	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.7 %	72-148		7122008	MS	22-Dec-17	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			100 %	28.3-164		7121506	MS	16-Dec-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			98.8 %	34.7-157		7121506	MS	16-Dec-17	8015B	

Green Analytical Laboratories**Soluble (DI Water Extraction)**

Chloride	<10.0		10.0	mg/kg wet	10	B712139	JDA	21-Dec-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7122008 - Volatiles										
Blank (7122008-BLK1)										
Prepared: 20-Dec-17 Analyzed: 21-Dec-17										
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0946		mg/kg	0.100		94.6	72-148			
LCS (7122008-BS1)										
Prepared: 20-Dec-17 Analyzed: 21-Dec-17										
Benzene	1.87	0.050	mg/kg	2.00		93.4	79.5-124			
Toluene	1.88	0.050	mg/kg	2.00		94.1	75.5-127			
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.3	77.7-125			
Total Xylenes	5.86	0.150	mg/kg	6.00		97.7	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0942		mg/kg	0.100		94.2	72-148			
LCS Dup (7122008-BSD1)										
Prepared: 20-Dec-17 Analyzed: 21-Dec-17										
Benzene	1.85	0.050	mg/kg	2.00		92.4	79.5-124	1.01	6.5	
Toluene	1.88	0.050	mg/kg	2.00		94.1	75.5-127	0.0129	7.02	
Ethylbenzene	1.89	0.050	mg/kg	2.00		94.4	77.7-125	0.971	7.83	
Total Xylenes	5.80	0.150	mg/kg	6.00		96.6	70.9-124	1.14	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0927		mg/kg	0.100		92.7	72-148			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 7121506 - General Prep - Organics**Blank (7121506-BLK1)**

Prepared: 15-Dec-17 Analyzed: 16-Dec-17

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	56.2		mg/kg	50.0		112	28.3-164		
Surrogate: 1-Chlorooctadecane	59.9		mg/kg	50.0		120	34.7-157		

LCS (7121506-BS1)

Prepared: 15-Dec-17 Analyzed: 16-Dec-17

GRO C6-C10	205	10.0	mg/kg	200		103	76.6-119		
DRO >C10-C28	183	10.0	mg/kg	200		91.6	81.4-124		
Total TPH C6-C28	388	10.0	mg/kg	400		97.0	79.4-121		
Surrogate: 1-Chlorooctane	49.8		mg/kg	50.0		99.5	28.3-164		
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.1	34.7-157		

LCS Dup (7121506-BSD1)

Prepared: 15-Dec-17 Analyzed: 16-Dec-17

GRO C6-C10	197	10.0	mg/kg	200		98.4	76.6-119	4.11	7.94
DRO >C10-C28	188	10.0	mg/kg	200		94.2	81.4-124	2.86	9.83
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	79.4-121	0.758	8.57
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	28.3-164		
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.2	34.7-157		

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
P. O. BOX 2587
HOBBS NM, 88241

Project: A N ETZ 001
Project Number: NONE GIVEN
Project Manager: BEN ARGUIJO
Fax To: NONE

Reported:
27-Dec-17 13:37

Soluble (DI Water Extraction) - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B712139 - General Prep - Wet Chem**Blank (B712139-BLK1)**

Prepared: 18-Dec-17 Analyzed: 20-Dec-17

Chloride	ND	10.0	mg/kg wet							
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LCS (B712139-BS1)

Prepared: 18-Dec-17 Analyzed: 20-Dec-17

Chloride	246	10.0	mg/kg wet	250		98.4	85-115			
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LCS Dup (B712139-BSD1)

Prepared: 18-Dec-17 Analyzed: 20-Dec-17

Chloride	245	10.0	mg/kg wet	250		97.9	85-115	0.456	20	
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Notes and Definitions

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

[illegible]

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Relinquished By:		Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Tristan Payne		12-12-17	Tamara Olds	Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
Time:		2:58pm		REMARKS:			
Relinquished By:		Date:	Received By:				
Time:							
Delivered By: (Circle One)		-2.3°	Sample Condition	CHECKED BY:			
Cool		Intact	(Initials)				
Sampler - UPS - Bus - Other:		Corrected -2.55°	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	T.O. #75		

Please e-mail results to ben@trinityoilfieldservices.com



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Company Name: Trinity Oilfield Services & Rentals, LLC				BILL TO				ANALYSIS REQUEST																																															
Project Manager: Ben J. Arguijo				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div>TPH (8015M)</div> <div>BTEX (8021B)</div> <div>Chloride (300)</div> <div style="color: blue; font-weight: bold;">BTEX added 12/20/17</div> </div>																																															
Address: P.O. Box 2587				Company: Trinity																																																			
City: Hobbs State: NM Zip: 88241				Attn:																																																			
Phone #: (575)390-7208 Fax #:				Address:																																																			
Project #: Project Owner: Cambrian Management				City:																																																			
Project Name: A N ETZ 001				State: Zip:																																																			
Project Location: Lea Co., NM				Phone #:																																																			
Sampler Name: Tristan Payne				Fax #:																																																			
<div style="display: flex;"> <div style="flex: 1;"> FOR LAB USE ONLY Lab I.D. <div style="color: blue;">H703440</div> </div> <div style="flex: 2;"> Sample I.D. <div style="color: blue;">11</div> <div style="color: blue;">12</div> <div style="color: blue;">13</div> </div> <div style="flex: 1;"> (G)RAB OR (C)OMP. # CONTAINERS </div> <div style="flex: 2;"> <table border="1"> <thead> <tr> <th colspan="5">MATRIX</th> <th colspan="2">PRESERV</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER :</th> <th>ACID/BASE:</th> <th>ICE / COOL</th> <th>OTHER :</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> </div> <div style="flex: 1;"> DATE TIME </div> </div>																MATRIX					PRESERV		SAMPLING		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :										Run BTEX if TPH <= 1,000												
MATRIX					PRESERV		SAMPLING																																																
GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :																																															
<div style="display: flex;"> <div style="flex: 1;"> <div style="color: blue;">11</div> <div style="color: blue;">12</div> <div style="color: blue;">13</div> </div> <div style="flex: 2;"> S.P. - 13 @ 1' </div> <div style="flex: 1;"> G 1 </div> <div style="flex: 2;"> <table border="1"> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> <tr> <td>X</td><td></td><td></td><td></td><td></td><td></td><td>X</td><td></td><td></td> </tr> </table> </div> <div style="flex: 1;"> 12/11/17 </div> <div style="flex: 1;"> 1335 </div> <div style="flex: 1;"> X </div> </div>																									X						X			X	X																				
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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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <div style="color: blue;">Tristan Payne</div>		Date: 12-12-17 Time: 3:00pm		Received By: <div style="color: blue;">Lawrence Eldridge</div>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Relinquished By:		Date:		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Time:		Time:		REMARKS:			
Delivered By: (Circle One) - 2.3e				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) <div style="color: blue;">TO-HS</div>	
Sampler - UPS - Bus - Other:				Please e-mail results to ben@trinityoilfieldservices.com			

District I

1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 111634

CONDITIONS

Operator: Permian Water Solutions, LLC PO Box 2106 Midland, TX 79702	OGRID: 373626
	Action Number: 111634
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Sampling Plan is conditionally approved. All off pad areas must contain a minimum of 4 feet non-waste containing uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and less than 100 mg/kg for TPH. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Confirmation samples should be collected every 200 ft2. The liner is approved with the condition that the release area is delineated/excavated to meet Table I of 19.15.29.12 NMAC. Wall samples taken every 50' interval is approved. The work will need to occur in 90 days after the work plan has been approved.	9/12/2022