

## SITE INFORMATION

### Report Type: Sampling Plan nAB1721451368

#### General Site Information:

Site:	Delaware River #002					
Company:	Permian Water Solutions LLC					
Section, Township and Range	Unit E	Sec. 11	T 26S	R 28E		
Lease Number:						
County:	Eddy County					
GPS:	32.05888			-104.063385		
Surface Owner:						
Mineral Owner:						
Directions:	From intersection OF US-285 and Whites City Rd, travel south on US-285 for 0.02 miles. Turn left onto lease road, follow for 0.03 miles, take immediate right onto lease road and follow for 0.16 miles. Turn left onto lease road, follow for 0.08 miles to location.					

#### Release Data:

Date Released:	7/25/2017
Type Release:	Produced Water
Source of Contamination:	Broken Wellhead Connection
Fluid Released:	50 bbl water
Fluids Recovered:	10 bbl 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:	<a href="mailto:dmcinturff@dufrane.com">dmcinturff@dufrane.com</a>		<a href="mailto:clair.gonzales@tetrattech.com">clair.gonzales@tetrattech.com</a>

#### Site Characterization

Depth to Groundwater:	155.92' 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  
Delaware River #002  
Eddy County, New Mexico  
nAB1721451368**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by Permian Water Solutions (Permian Water) to assess a release that occurred at the Delaware River #002, Unit E, Section 11, Township 26 South, Range 28 East, Eddy County, New Mexico (Site). The spill site coordinates are 32.05888°, -104.063385°. 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 Delaware River #002 was caused by a broken wellhead connection, causing the release of 50 bbls of produced water, the release impacted the pasture area and the area of a previous reserve pit, , impacting an area 200' X 400'. Approximately 10 bbls of produced water was recovered. On July 25, 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, playa lakes, springs, wetlands, subsurfaces mines, private domestic water wells, or floodplains located within the specified distances. However, the site is located in a medium karst area. 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 two closest water wells within a mile radius of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 300 ft bgs and measured water level of 120 ft bgs and is approximately 0.70 miles of the Site. The well reported on the USGS National Water Information System reports groundwater at a total depth of 155.92 ft bgs and is approximately 0.65 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
0.65 Miles	2/24/2021	USGS	N/A	155.92'
0.70 Miles	9/01/1960	NMOSE	300'	120'

### **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 Plan and a Spill Remediation Plan that was provided by Permian Water, these reports can be found in **Appendix C**.



Site assessment activities were conducted on August 10, 2017 through August 18, 2017. During site assessment activities, a total of eighteen (18) sample points (SP-1 through SP-18) were installed to total depths of 0.5 ft bgs to attempt to assess the impacted area. The consultants returned to the site on August 14, 2017, and August 17 through August 18, 2017, a total of eight (8) auger holes (AH-1 through AH-8) were installed to total depths ranging from 4.5 ft bgs to 12.5 ft bgs. Additionally, the sample points (SP-1 and SP-3) were extended to deeper depths ranging from 1.5 ft bgs to 4.0 ft bgs, to attempt to vertically delineate previous chloride concentrations.

The samples were submitted to Cardinal Laboratory in Hobbs, New Mexico to be analyzed for TPH method 8015 modified 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 August 10, 2017 sampling event, all sampling points (SP-1 through SP-7, and SP-13) did not show TPH concentrations above RRLs. However, sampling points (SP-8 through SP-12, and SP-14 through SP-18) indicated TPH concentrations above RRLs, with concentrations ranging from 259 mg/kg to 48,940 mg/kg, at depths of 0.5 ft bgs. Sampling points (SP-2 through SP-15, SP-17, and SP-18) indicated chloride concentrations above RRLs, with concentrations ranging from 1,140 mg/kg to 36,700 mg/kg, at depths of 0.5 ft bgs. The remaining sample points (SP-1 and SP-16) showed chloride concentrations below RRLs. However, all sample points that indicated TPH and chloride concentration exceedances, were not delineated during the August 10, 2017 sampling event.

Based on data found from the sampling events completed on August 14 through August 18, 2017, the sample points (SP-1 and SP-3) that were extended and the additional auger holes (AH-1 through AH-8) did not show TPH concentrations above RRLs. Sample point (SP-3) and auger holes (AH-1 through AH-6) indicated chloride concentrations above RRLs, with concentrations ranging from 628 mg/kg to 10,900 mg/kg, depths ranging from 2.5 ft bgs and 12.5 ft bgs. The remaining sample points (SP-1) and auger holes (AH-7 and AH-8) showed chloride concentrations below RRLs. Additionally, vertical delineation was found in auger holes (AH-1, AH-5, and AH-6).

### **Tetra Tech Sampling Plan**

Based on the information provided in the C-141 (nAB1721451368) 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 ten (10) to twelve (12) trenches throughout the determined impact. Additionally, approximately twelve (12) horizontals will be installed directly outside of the impact to indicate horizontal delineation. 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'.

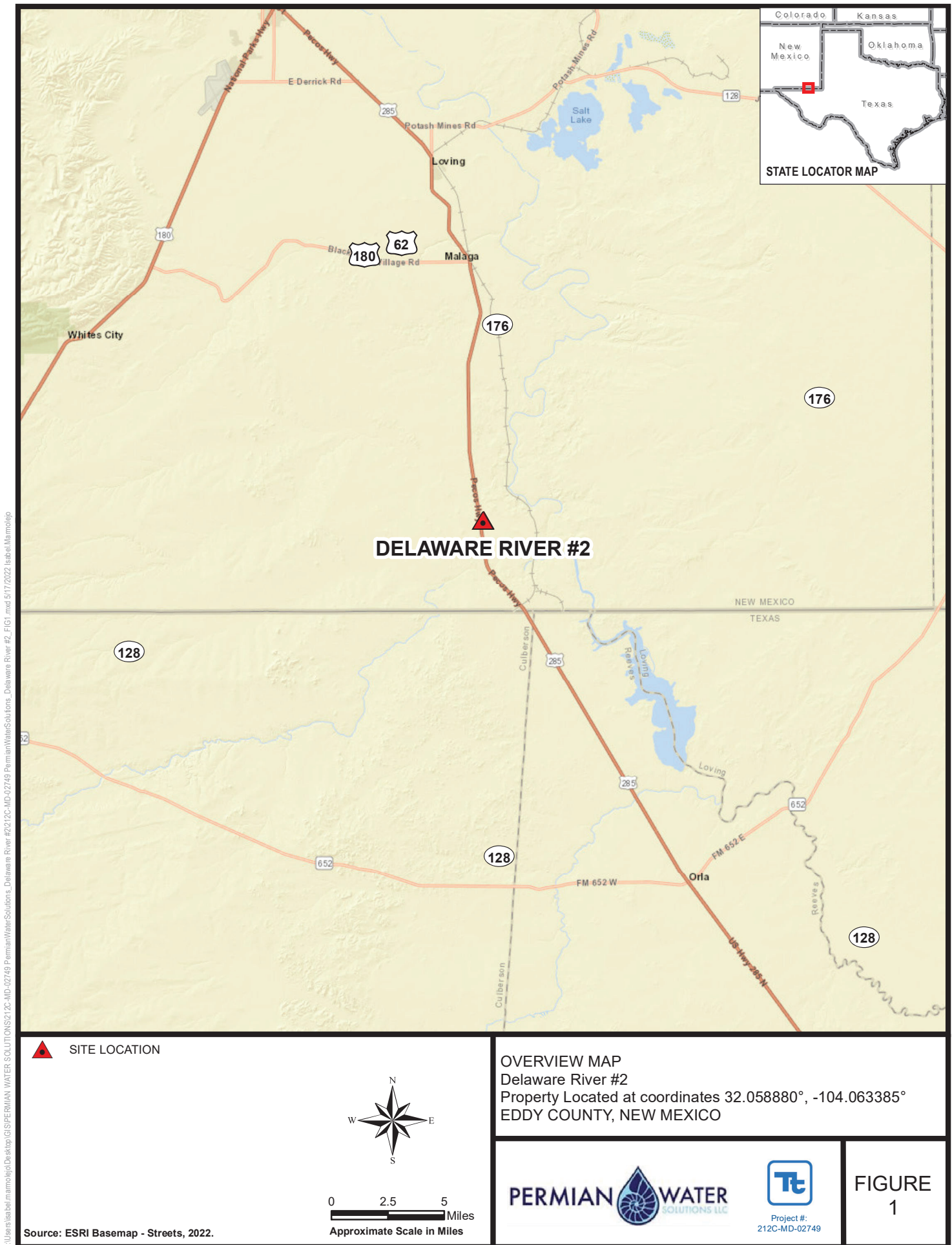
Clair Gonzales, P.G.  
Senior Project Manager



## Figures

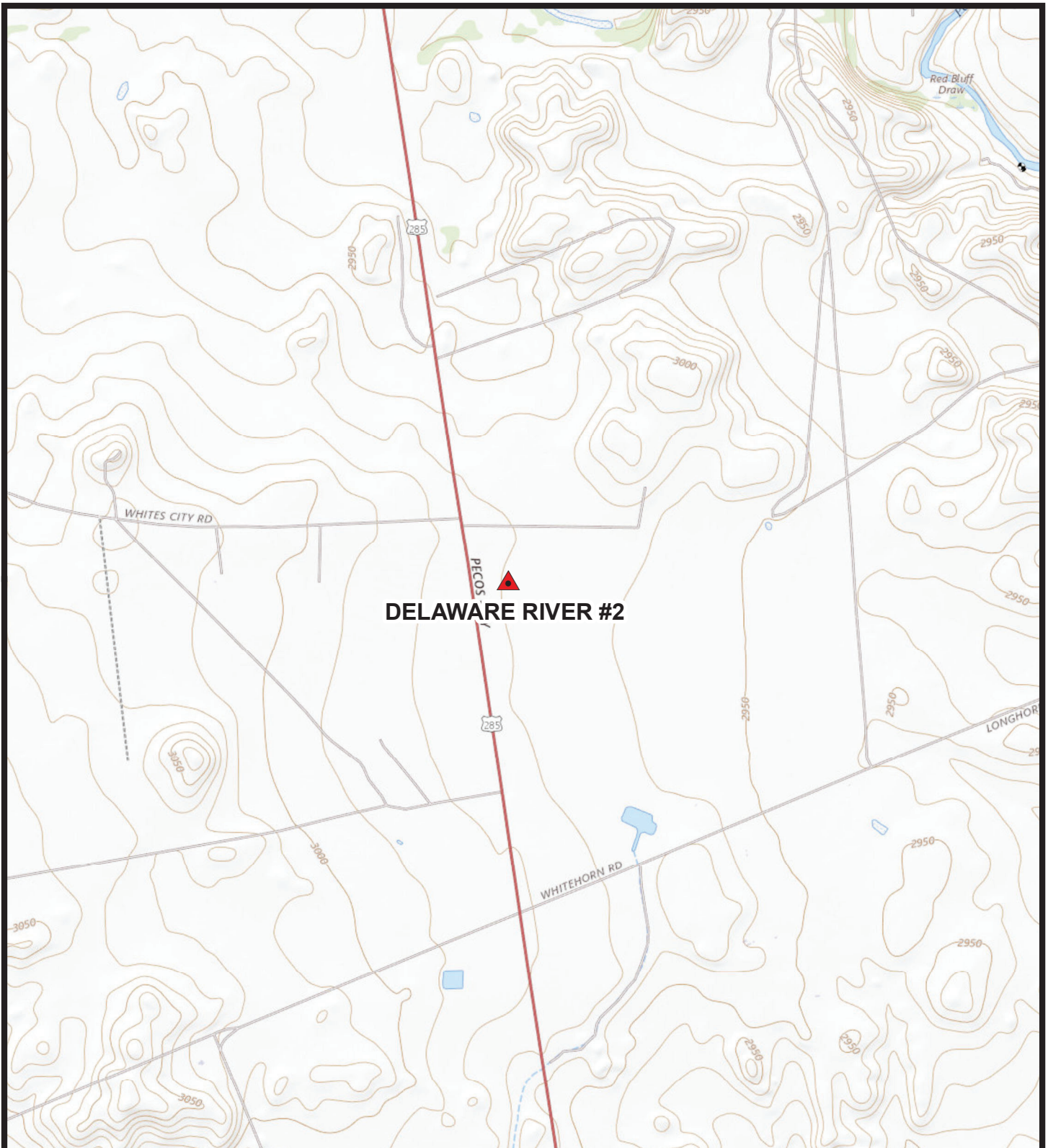
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C:\Users\lshah\Documents\GIS\PERMIAN WATER SOLUTIONS\212C-MD-02749 PermianWaterSolutions\_Delaware River #2\_FIG2.mxd 5/17/2022 Isabel Mamolejo



 SITE LOCATION



0 1,000 2,000  
Feet  
Approximate Scale in Feet

Source: USGS, The National Map,  
Topo Base, 2022.

#### TOPOGRAPHIC MAP

Delaware River #2

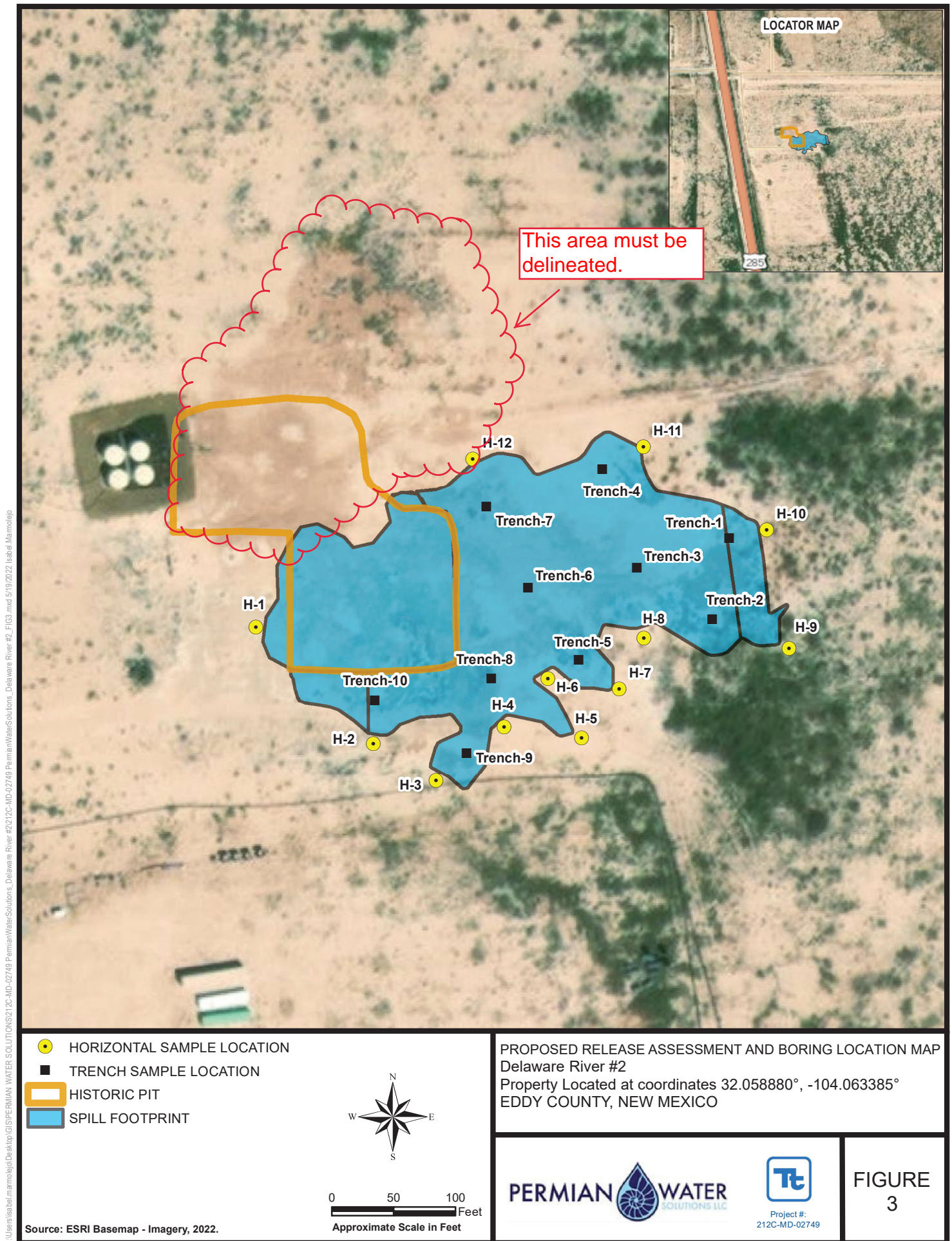
Property Located at coordinates 32.058880°, -104.063385°  
EDDY COUNTY, NEW MEXICO



Project #:  
212C-MD-02749

FIGURE  
2







# Appendix A

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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	nAB1721451368
District RP	2RP-4311
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party PERMIAN WATER SOLUTIONS LLC	OGRID 373626
Contact Name Joshua Brooks	Contact Telephone 432-219-0741
Contact email josh@permianws.com	Incident # (assigned by OCD) nMAP1825433366
Contact mailing address PO BOX 2106, MIDLAND TX 79702	

### Location of Release Source

Latitude 32.05888 Longitude -104.063385  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name DELAWARE RIVER #002	Site Type SALT WATER DISPOSAL
Date Release Discovered 7/25/2017	API# (if applicable) 30-015-24784

Unit Letter	Section	Township	Range	County
E	11	26S	28E	Eddy

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 50	Volume Recovered (bbls) 10
	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

C-141 FILED 7/26/2017 BY CAMBRIAN MANAGEMENT STATES THAT THE WELLHEAD CONNECTION BROKE. THIS C-141 HAS BEEN FILED TO SATISFY NMOCD-ACO-201813.

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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? <b>GREATER THAN 25 BBLS.</b>
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? <b>C-141 FILED BY CAMBRIAN STATES THAT THEY LEFT A MESSAGE FOR MIKE BRATCHER @ 1 PM ON 7/25/2017.</b>	

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:          	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Jenni Usher</u>	Title: <u>Regulatory Analyst</u>
Signature: <u>Jenni Usher</u>	Date: <u>5/27/2022</u>
email: <u>jenni@permianws.com</u>	Telephone: <u>5128208772</u>
<b><u>OCD Only</u></b>  Received by: _____ Date: _____	

Incident ID	nAB1721451368
District RP	2RP-4311
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?	155.92 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> 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	nAB1721451368
District RP	2RP-4311
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: Jenni Usher Title: Regulatory Analyst

Signature: Jenni Usher Date: 5/27/2022

email: jenni@permianws.com Telephone: 5128208772

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	nAB1721451368
District RP	2RP-4311
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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: Jenni Usher Title: Regulatory Analyst  
Signature: Jenni Usher Date: 5/27/2022  
email: jenni@permianws.com Telephone: 5128208772

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: B. Utman Hall Date: 10/17/2022

**Conditions of approval:**

1. In addition to the delineation points outlined in this report, the area north/northeast of the demarcated area must be both horizontally and vertically delineated. The area that must be included is marked in red on Figure 3.

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District RP	2RP-4311
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

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### Site Characterization Documents



[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)


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

**Data Category:**  
Groundwater

**Geographic Area:**  
New Mexico

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

**1** Important: [Next Generation Monitoring Location Page](#)

## Search Results -- 1 sites found

Agency code = usgs

site\_no list =

- 320309104020401

Minimum number of levels = 1

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

## USGS 320309104020401 26S.28E.14.11111

Eddy County, New Mexico

Latitude 32°02'59.0", Longitude 104°03'58.7" NAD83

Land-surface elevation 2,972.00 feet above NGVD29

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

### Output formats

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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
1978-01-13			D	62610	2849.66	NGVD29	1	Z		
1978-01-13			D	62611	2851.23	NAVD88	1	Z		
1978-01-13			D	72019	122.34		1	Z		
1983-01-25			D	62610	2844.62	NGVD29	1	Z		
1983-01-25			D	62611	2846.19	NAVD88	1	Z		
1983-01-25			D	72019	127.38		1	Z		
1987-10-14			D	62610	2865.60	NGVD29	1	Z		
1987-10-14			D	62611	2867.17	NAVD88	1	Z		
1987-10-14			D	72019	106.40		1	Z		
1993-01-05			D	62610	2871.58	NGVD29	1	S		
1993-01-05			D	62611	2873.15	NAVD88	1	S		
1993-01-05			D	72019	100.42		1	S		
1998-01-22			D	62610	2875.45	NGVD29	1	S		
1998-01-22			D	62611	2877.02	NAVD88	1	S		
1998-01-22			D	72019	96.55		1	S		



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
2003-01-27		D	62610		2874.98	NGVD29	1	S	USGS	
2003-01-27		D	62611		2876.55	NAVD88	1	S	USGS	
2003-01-27		D	72019	97.02			1	S	USGS	
2013-01-09	20:30 UTC	m	62610		2832.88	NGVD29	1	S	USGS	
2013-01-09	20:30 UTC	m	62611		2834.45	NAVD88	1	S	USGS	
2013-01-09	20:30 UTC	m	72019	139.12			1	S	USGS	
2018-02-14	21:26 UTC	m	62610			NGVD29	6	O	USGS	
2018-02-14	21:26 UTC	m	62611			NAVD88	6	O	USGS	
2018-02-14	21:26 UTC	m	72019				6	O	USGS	
2021-02-24	20:05 UTC	m	62610		2816.08	NGVD29	1	V	USGS	
2021-02-24	20:05 UTC	m	62611		2817.65	NAVD88	1	V	USGS	
2021-02-24	20:05 UTC	m	72019	155.92			1	V	USGS	

## Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
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
Status	6	Measurement unable to be obtained due to local conditions
Method of measurement	O	Observed.
Method of measurement	S	Steel-tape measurement.
Method of measurement	V	Calibrated electric-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
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=320309104020401&agency_cd=USGS&format=html)



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


Page Last Modified: 2022-03-15 17:13:03 EDT

0.35 0.3 nadww01



# New Mexico Office of the State Engineer

## Point of Diversion Summary

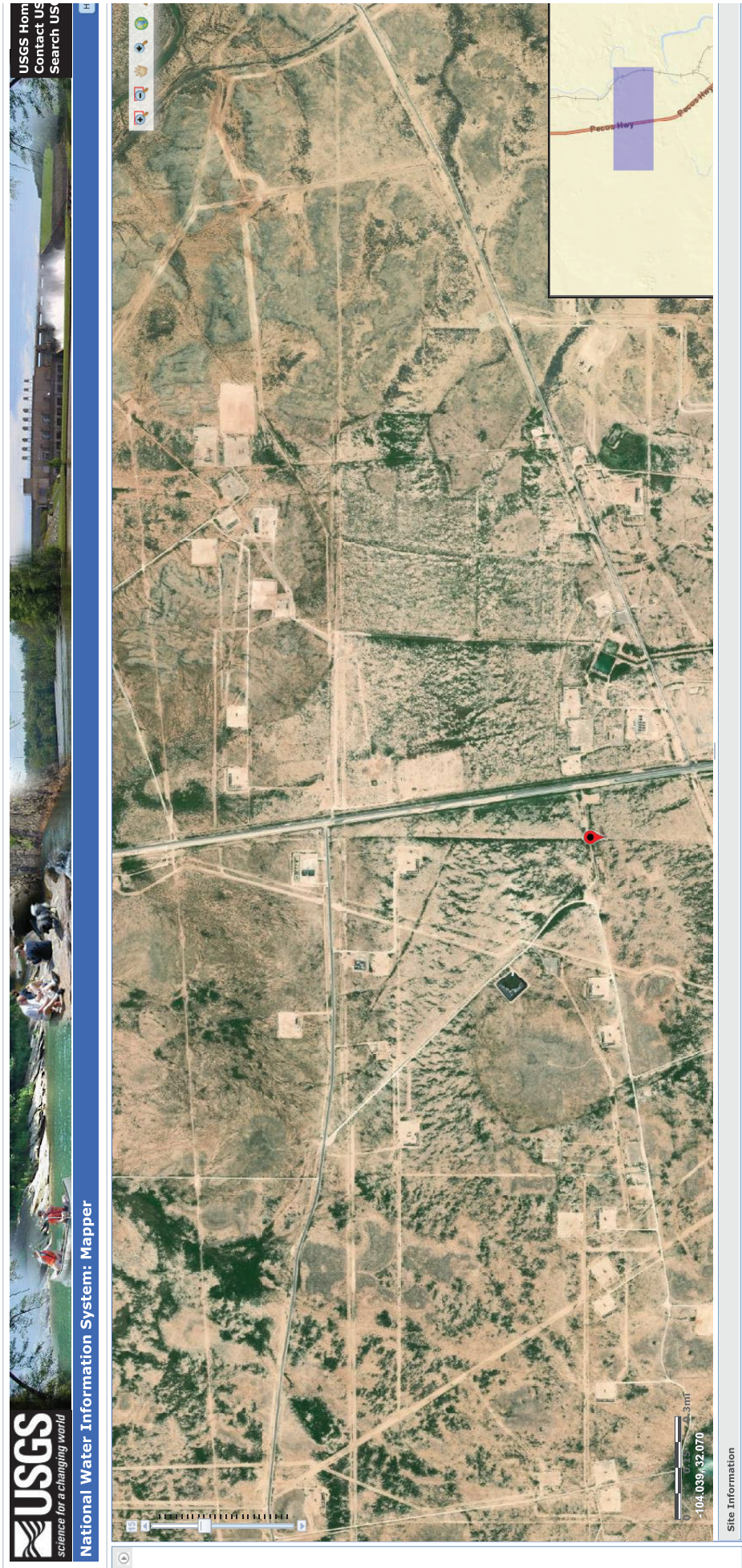
		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
C	02160 S5	1	1	1	14	26S	28E	588225	3546237* 
Driller License:		Driller Company:							
Driller Name:		HEMLER							
Drill Start Date:		Drill Finish Date:		09/01/1960		Plug Date:			
Log File Date:		PCW Rev Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:		300 feet		Depth Water:		120 feet	

\*UTM location was derived from PLSS - see Help

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.

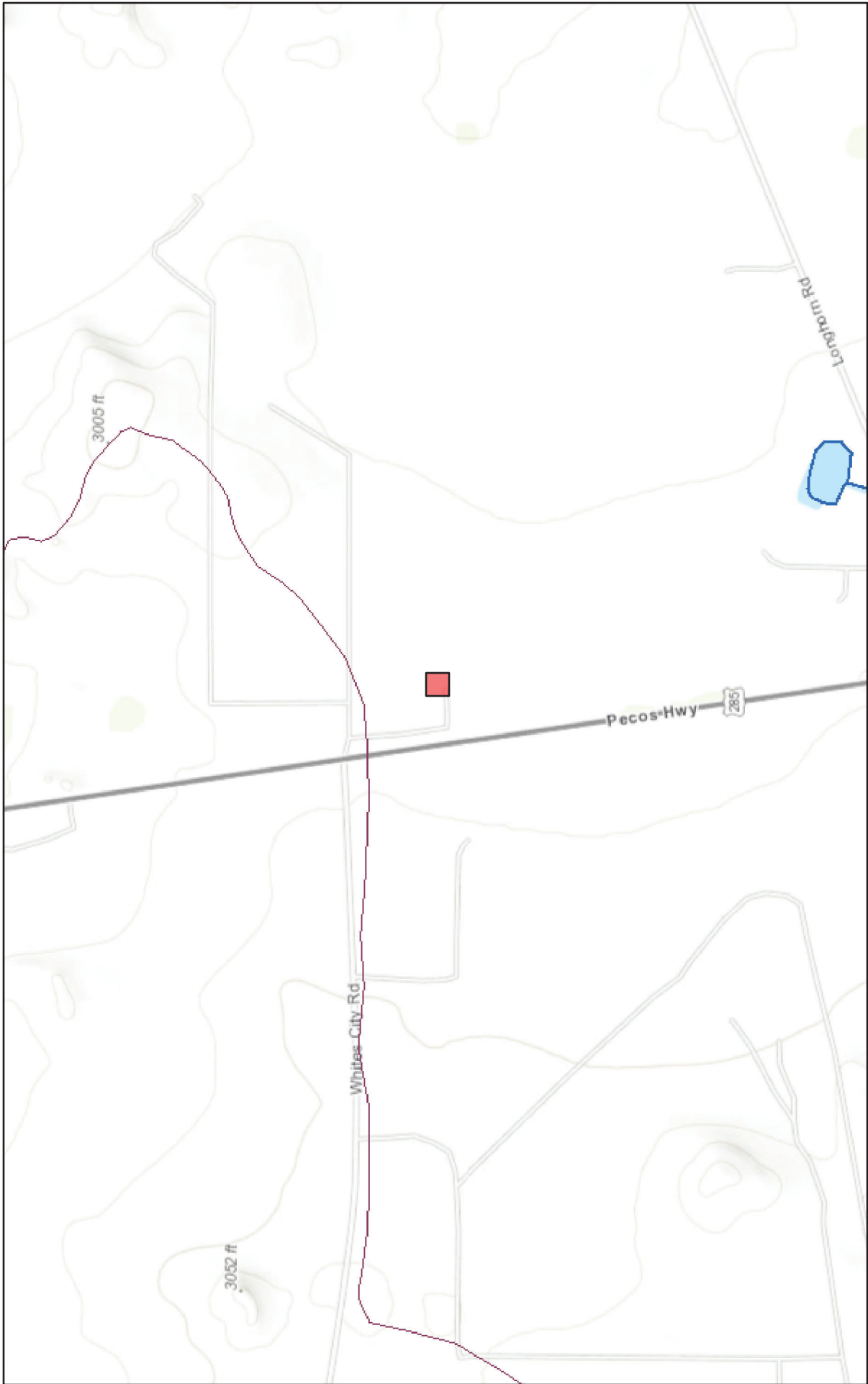
3/15/22 1:54 PM

POINT OF DIVERSION SUMMARY





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, nmfsd.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.



5 mi

**Legend**



Delaware River #002

High



Low



Medium



**Medium Karst**

Permian Water Solutions  
Delaware River #002

Delaware River #002



285



## Appendix C

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Previous Consultant Reports and Data

# Trinity Oilfield Services & Rentals, LLC

## Environmental Site Summary & Spill Remediation Plan



**Company:** Cambrian Management **Address:** P.O. Box 272, Midland, TX 79702 **Telephone #:** (432) 631-4398  
**Site Name:** Delaware River 2 **NMOCD Reference#:** 2RP-4311  
**Surface Owner:** Delaware Ranch, Inc. **Mineral Owner:** \_\_\_\_\_  
**Unit Letter:** "E" (SW/NW) **Section:** 11 **Township:** 26S **Range:** 28E **County:** Eddy **GPS Coordinates:** 32.05888 N -104.063385 W  
**Depth to Ground Water:** 75' **Distance to Surface Water Body:** ☐ <200' ☐ 200' - 1,000' ☒ >1,000'  
**Wellhead Protection Area:** <1,000' from Water Source or <200' from Domestic Water Source? ☐ Y ☒ N  
**NMOCD Ranking Score:** 10 **Soil Remediation Levels (mg/kg):** Benzene: 10 BTEX: 50 TPH: ☐ 100 Chloride: ☐ 250  
☒ 1,000 ☒ 600  
☐ 5,000  
**Date/Time of Release:** 7/25/2017,09:00 **Type of Release:** Produced Water **Approximate Volume of Release:** 50 bbls

### Background Information:

On July 25, 2017, Cambrian Management (Cambrian) discovered a release at its Delaware River 2 well. The wellhead connection broke, resulting in the release of approximately 50 barrels (bbls) of produced water. The release impacted an area of the caliche well pad and adjacent pasture measuring approximately 66,000 square feet. During initial response activities, the well was isolated, and the broken connection was repaired. A vacuum truck was utilized to recover approximately 10 bbls of produced water. Visibly stained, heavily impacted soil was scraped up and stockpiled on-site, prior to transfer to Lea Land, Inc. (Permit #WM-01-035), for disposal.

The release was immediately reported to the New Mexico Oil Conservation Division's (NMOCD) Artesia District Office. The "Release Notification & Corrective Action" form (C-141) is provided as Appendix A. General photographs of the release site are provided in Appendix C. A "Site Location Map" is provided as Figure 1.

### Summary of Field Activities:

On August 10, 2017, a series of soil samples (SP-1 through SP-18) were collected at the site to investigate the extent of impacted soil. The samples were spaced in a grid-like pattern along the visibly stained area on the caliche well pad and in the adjacent pasture, as well as non-impacted areas outside the inferred margins of the release. The samples were collected approximately 6 inches below ground surface (bgs), field-screened with a chloride test kit, and submitted to Cardinal Laboratories in Hobbs, New Mexico, for confirmatory analysis of total petroleum hydrocarbons (TPH) and/or chloride concentrations using Environmental Protection Agency (EPA) Methods SW 846-8015M and 300, respectively. Laboratory analytical results and field screens indicated delineation of the areas represented by soil samples SP-1 and SP-16 was achieved. However, additional vertical delineation of the release was required.

On August 17, 2017, based on field-screens from the initial sampling event, a series of hand-augered soil borings were advanced in representative areas of the release to further investigate the vertical extent of impacted soil. The boreholes were advanced to depths ranging from 2 feet (AH-7 and AH-8) to 4.5 feet bgs (AH-1 through AH-5). Soil samples collected at 6-inch to 2-foot vertical intervals were field-screened with a chloride test kit, and confirmation samples were submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results and field tests indicated delineation of the areas represented by auger holes AH-7 and AH-8 was achieved. However, additional delineation in the areas represented by auger holes AH-1 through AH-6 was required.

From August 17 through 18, 2017, three (3) delineation trenches were advanced at the site to further investigate the vertical extent of impacted soil. The trenches were advanced in the areas represented by auger holes AH-1, AH-5, and AH-6 to depths ranging from 7 feet bgs (AH-5) to 12.5 feet bgs (AH-1). Soil samples collected at 1- to 2-foot vertical intervals were field-screened with a chloride test kit, and confirmation samples were submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results and field tests indicated delineation of the areas represented by auger holes/delineation trenches AH-1, AH-5, and AH-6 was achieved. Extrapolation of these representative results further indicated delineation of soil samples SP-2, SP-3, SP-5, SP-7, SP-12, SP-13, SP-14, and SP-15 was also achieved.

# Trinity Oilfield Services & Rentals, LLC

## Environmental Site Summary & Spill Remediation Plan



### Summary of Field Activities (cont.):

During advancement of the delineation trenches, a plastic liner was encountered at approximately 4 to 4.5 feet bgs in the areas represented by auger holes AH-1, AH-2, and AH-3. It is believed that the liner is associated with historic drilling pits or possibly previous remediation activities. Delineation of the areas represented by auger holes AH-2, AH-3, and AH-4 was postponed until such time that the extent of the liner could be determined.

Locations of the soil samples, boreholes, and delineation trenches are depicted in Figure 2, "Sample Location Map". Laboratory analytical results are summarized in Table 1, and analytical reports are provided in Appendix D.

### Proposed Activities:

Cambrian proposes to conduct the following activities to progress the Delaware River 2 release site to an NMOCD-approved closure:

- Trenches will be advanced at the site to determine the extent of the existing liner in the four cardinal directions. Should it be determined that the area represented by auger hole AH-4 is outside the footprint of the liner, additional vertical delineation of that area will be conducted. Due to the presence of the historic pits, no additional vertical delineation will be conducted in the areas represented by soil samples SP-2 through SP-5 and auger holes AH-2 and AH-3.
- The horizontal limits of the excavation will be determined by field-screening using a chloride field test kit and/or olfactory/visual senses. The excavation will be advanced vertically as follows:
  - Maximum depth of 1 foot bgs in the area represented by soil sample SP-1, as well as adjacent to the wellhead.
  - Maximum depth of 2 feet bgs in the areas represented by auger holes AH-7 and AH-8, as well as in the footprint(s) of the historic pit(s).
  - To the existing liner or to a maximum depth of 4 feet bgs throughout the remainder of the site.
- A 20-mil, impermeable, plastic liner will be installed at approximately 4 feet bgs in areas where in-situ soil exhibits contaminant concentrations above the recommended remediation action levels established for the site. Where possible, the liner will be chemically welded to the existing liner in order to create a continuous surface. Felt padding or a cushion of sand will be installed on the floor of the excavation prior to installation of the new liner, and a 6-inch cushion of sand will be installed atop the liner once it is in place to protect it from damage during backfilling activities. This engineered control will serve to inhibit vertical migration of contaminants remaining in-situ.
- Following remediation activities, the excavation will be backfilled with non-impacted material, compacted, and contoured to fit the surrounding topography. Disturbed areas in the pasture will be revegetated with a seed mixture acceptable to the landowner at a time conducive to germination.
- Upon completion of the aforementioned corrective actions, a "Remediation Summary" will be submitted to the NMOCD, documenting remediation activities and results of confirmation soil samples.

### Enclosures:

Figure 1: Site Location Map

Figure 2: Sample Location Map

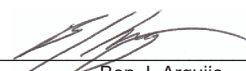
Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil

Appendix A: Release Notification & Corrective Action (Form C-141)

Appendix B: Groundwater Level Data

Appendix C: Photographs

Appendix D: Laboratory Analytical Results

  
Ben J. Arguijo  
Project Manager



# Figures

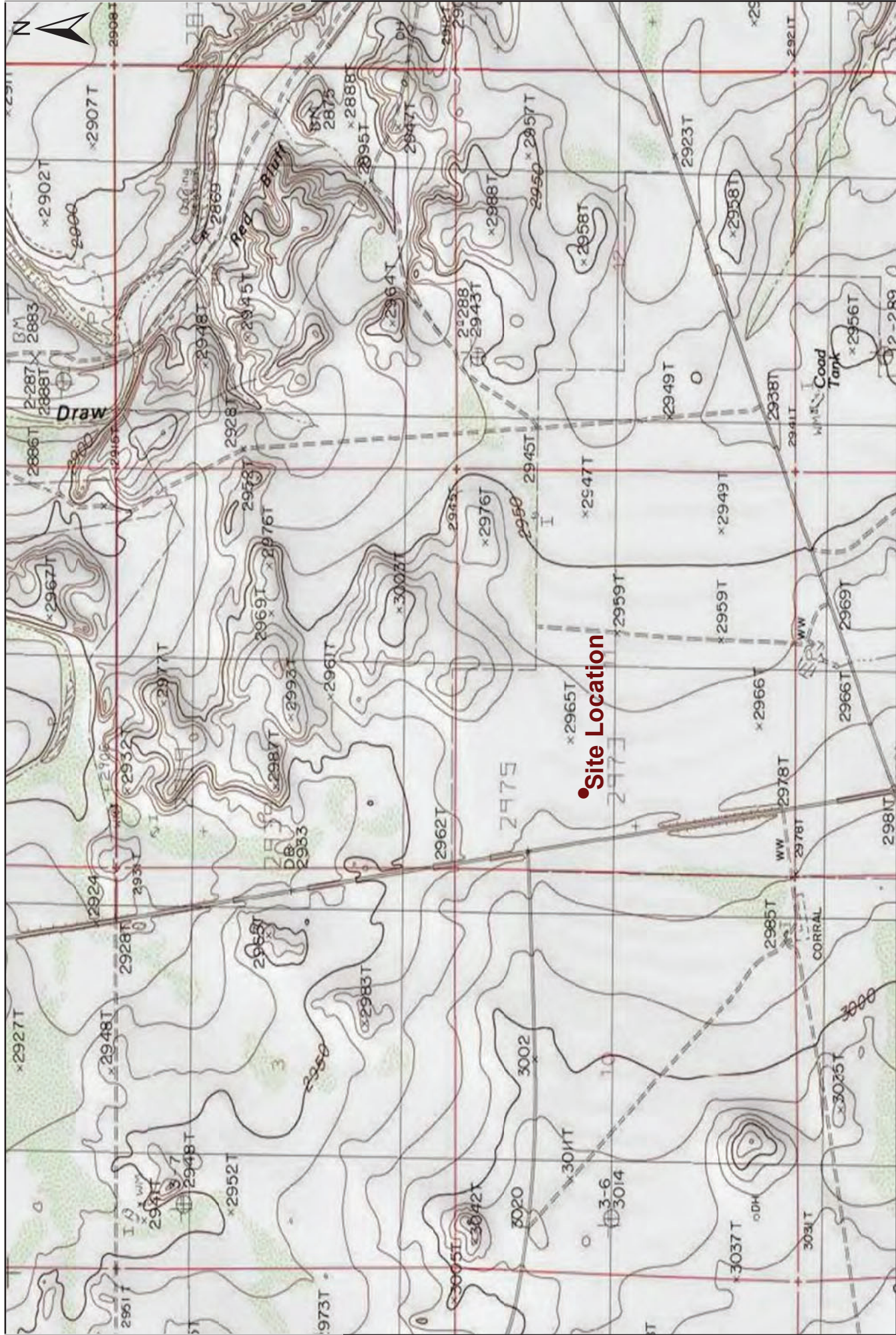


Figure 1  
Site Location Map  
Cambrian Management  
Delaware River 2  
Eddy County, New Mexico  
NMOCD Reference #: 2RP-4311

Trinity Oilfield Services & Rentals, LLC  
P.O. Box 2587  
Hobbs, NM 88241

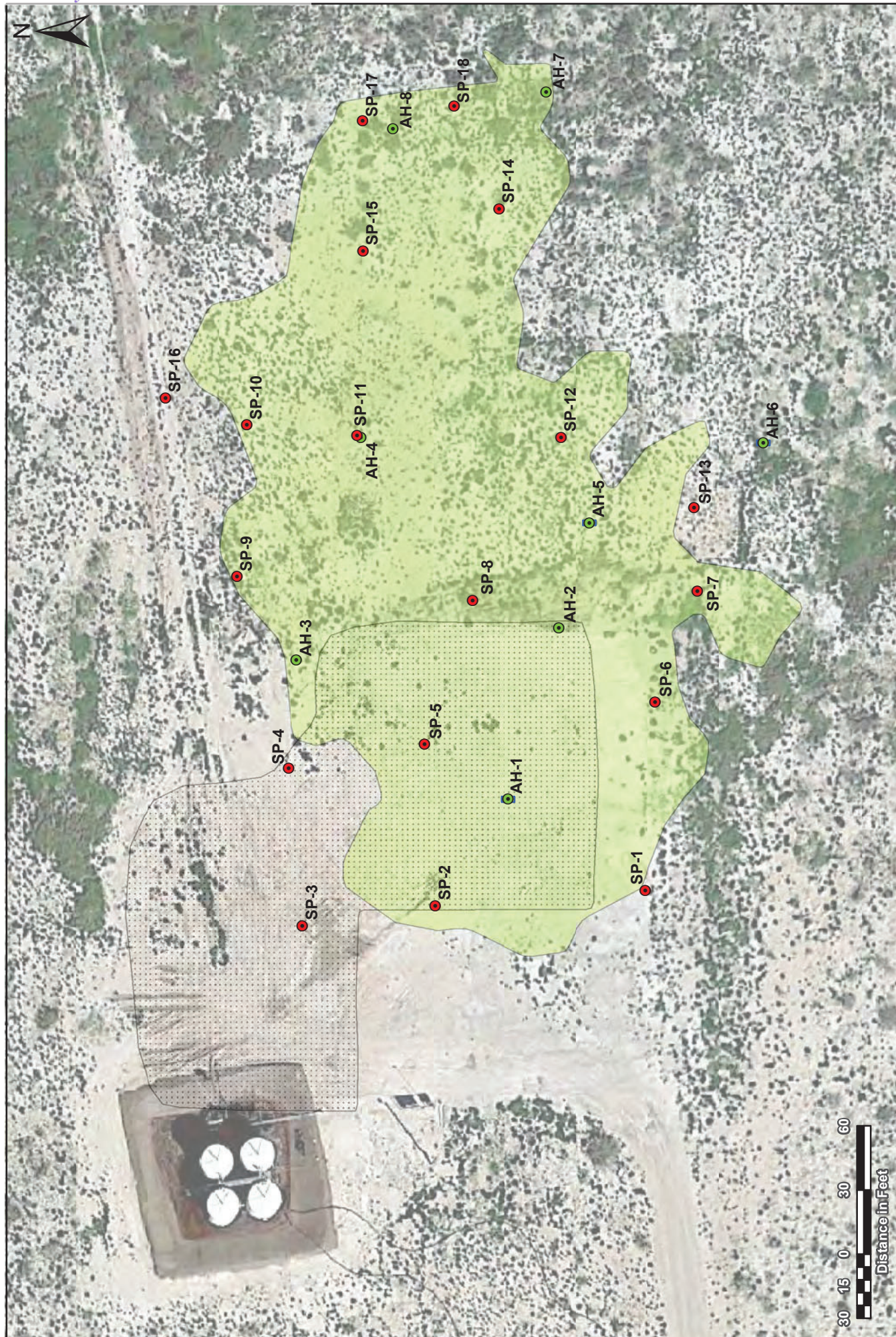
Drawn By: BJA  
January 17, 2018

Checked By: CTR  
Scale: 1" = 2,000'

Distance in Feet

2,000 1,000 0 2,000





Trinity Oilfield Services & Rentals, LLC  
P.O. Box 2587  
Hobbs, NM 88241

Drawn By: BJA	Checked By: CTR
January 31, 2018	Scale: 1" = 60'



**Figure 2**  
**Sample Location Map**  
**Cambrian Management**  
**Delaware River 2**  
**Eddy County, New Mexico**  
**NMOCD Reference #: 2RP-4311**

**Legend**

- Release
- Historic Pit(s)
- Delineation Trench
- Sample Location
- Auger Hole



# Tables

TABLE 1  
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL  
DELAWARE RIVER 2  
CAMBRIAN MANAGEMENT  
EDDY COUNTY, NEW MEXICO  
NMOCD REF. #: 2RP-4311



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M				METHOD: 300	
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	EXT DRO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)		
NMOCD Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	50	NE	NE	NE	5,000	600		
SP-1 @ 6"	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	327		
SP-1 @ 1'	1'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	103		
SP-1 @ 1.5'	1.5'	8/14/2017	In-Situ	-	-	-	-	-	<10.0	10.4	27.7	38.1	91.0		
SP-2 @ 6"	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	11,900		
SP-3 @ 6"	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	36,700		
SP-3 @ 2.5'	2.5'	8/14/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	3,300		
SP-3 @ 4'	4'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	1,680		
SP-4 @ 6"	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	3,490		
SP-5 @ 6"	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	67.1	15.5	82.6	2,580		
SP-6 @ 6"	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	10,600		
SP-7 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	17,400		
SP-8 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	986	7,270	998	9,254	8,470		
SP-9 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	395	15,900	2,690	18,985	9,320		
SP-10 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	24.4	1,560	301	1,885	12,500		
SP-11 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	<10.0	2,540	567	3,107	21,300		
SP-12 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	<10.0	203	55.7	259	16,400		
SP-13 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	13,300		
SP-14 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	3,750	39,400	5,790	48,940	4,680		
SP-15 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	1,530	33,900	5,160	40,590	1,140		
SP-16 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	1,300	25,800	4,080	31,180	155		
SP-17 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	42.6	4,300	916	5,259	11,500		
SP-18 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	232	13,100	2,540	15,872	21,600		

TABLE 1  
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL  
DELAWARE RIVER 2  
CAMBRIAN MANAGEMENT  
EDDY COUNTY, NEW MEXICO  
NMOCD REF. #: 2RP-4311



SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M				METHOD: 300	
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	EXT DRO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)		
NMOCD Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	50	NE	NE	NE	5,000	600		
AH-1 @ 4.5'	4.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	3,320		
AH-1 @ 6.5'	6.5'	8/17/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	877		
AH-1 @ 8.5'	8.5'	8/17/2017	In-Situ	-	-	-	-	-	-	-	-	-	215		
AH-1 @ 10.5'	10.5'	8/17/2017	In-Situ	-	-	-	-	-	-	-	-	-	323		
AH-1 @ 12.5'	12.5'	8/17/2017	In-Situ	-	-	-	-	-	<10.0	54.4	27.3	81.7	66.0		
AH-2 @ 4.5'	4.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	8,920		
AH-3 @ 4.5'	4.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	6,830		
AH-4 @ 4.5'	4.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	10,900		
AH-5 @ 2.5'	2.5'	8/14/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	9,200		
AH-5 @ 4.5'	4.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	679		
AH-5 @ 7'	7'	8/17/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	90.8		
AH-6 @ 2'	2'	8/14/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	251		
AH-6 @ 4'	4'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	628		
AH-6 @ 6'	6'	8/17/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	686		
AH-6 @ 10'	10'	8/18/2017	In-Situ	-	-	-	-	-	-	-	-	-	206		
AH-6 @ 11'	11'	8/18/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	93.1		
AH-7 @ 2'	2'	8/14/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	19.7		
AH-8 @ 2'	2'	8/14/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	11.2		

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs

# **Appendices**

# **Appendix A**

## **Release Notification & Corrective Action (Form 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

NAB172145136B

#### OPERATOR

X Initial Report ☐ Final Report

Name of Company	Cambrian Management, Ltd <u>1906088</u>	Contact	Denise Jones
Address	PO Box 272, Midland, TX 79702	Telephone No.	432-620-9181
Facility Name	Delaware River <u>2</u>	Facility Type	SWD Well
Surface Owner	Mineral Owner	API No. 30-015-24784	

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	11	26S	28E	1980	North	990	West	Eddy

Latitude 32.05888 Longitude 104.063385 NAD83

#### NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	50 bbls	Volume Recovered	10 bbls
Source of Release		Date and Hour of Occurrence	7/25/17 9:00 AM	Date and Hour of Discovery	7/25/17 11:00
Was Immediate Notice Given?	X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Left Message for Mike Bratcher		
By Whom?	Denise Jones	Date and Hour	7/25/17	Approximately 1:00	
Was a Watercourse Reached?	<input type="checkbox"/> Yes X No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

Describe Cause of Problem and Remedial Action Taken.\*

JUL 26 2017

The wellhead connection broke. The wellhead was isolated and will be repaired/replaced.

RECEIVED

Describe Area Affected and Cleanup Action Taken.\*

There was approximately a 200' x 400' area affected. The area is currently pasture but used to be the reserve pit. We are digging up approximately 1' of soil throughout the affected area and hauling it off. We will then clean the rest of the surface and determine any other action that needs to be taken.

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: <u>Denise Jones</u>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Denise Jones	Signed By <u>Mike Bratcher</u> Approved by Environmental Specialist:	
Title: Regulatory Analyst	Approval Date: <u>8/2/17</u>	Expiration Date: <u>N/A</u>
E-mail Address: <u>djones@cambrianmgmt.com</u>	Conditions of Approval: <u>See attached</u>	Attached <input type="checkbox"/>
Date: <u>07/25/2017</u> Phone: <u>432-620-9181</u>		

\* Attach Additional Sheets If Necessary

2RD4311

# **Appendix B**

## **Groundwater Level Data**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 02924</a>	C		ED	1	3	2	11	26S	28E	589032	3547451*	627			
<a href="#">C 02479</a>	CUB		ED	4	4	10	26S	28E	587909	3546534*		955	200		
<a href="#">C 02480</a>	CUB		ED	4	4	10	26S	28E	587909	3546534*		955	150		
<a href="#">C 02160 S5</a>			ED	1	1	1	14	26S	28E	588225	3546237*	1124	300	120	180
<a href="#">C 02160 S3</a>			ED	2	2	1	14	26S	28E	588834	3546241*	1182	300	120	180
<a href="#">C 02160 S4</a>			ED	2	2	1	14	26S	28E	588834	3546241*	1182	300	120	180
<a href="#">C 02481</a>	CUB		ED	1	1	14	26S	28E	588326	3546138*		1210	200		
<a href="#">C 02160 S</a>			ED	1	1	2	14	26S	28E	589043	3546244*	1268	300	120	180
<a href="#">C 02160 S2</a>			ED	1	1	2	14	26S	28E	589043	3546244*	1268	300	120	180
<a href="#">C 02160</a>			ED	4	1	2	14	26S	28E	589243	3546044*	1543	300	120	180

Average Depth to Water: **120 feet**

Minimum Depth: **120 feet**

Maximum Depth: **120 feet**

Record Count: 10

UTMNAD83 Radius Search (in meters):

Easting (X): 588413.44

Northing (Y): 3547345.72

Radius: 1610

\*UTM location was derived from PLSS - see Help

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.

2/1/18 1:54 PM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

# **Appendix C**

# **Photographs**





Delaware River 2 - Release Site (Looking South)



Delaware River 2 - Release Site (Looking South-Southwest)





Delaware River 2 – Release Site (Looking South)



Delaware River 2 – Release Site (Looking East)





Delaware River 2 – Release Site (Looking Southeast)



Delaware River 2 – Release Site (Looking Southwest)





Delaware River 2 – Release Site (Looking West-Southwest)



Delaware River 2 – Release Site (Looking West)





Delaware River 2 – Release Site (Looking West-Northwest)



Delaware River 2 – Release Site (Looking West)





Delaware River 2 – Release Site (Looking Northwest)



Delaware River 2 – Release Site (Looking North)





Delaware River 2 – Release Site (Looking North-Northwest)



Delaware River 2 – Release Site (Looking North)





Delaware River 2 – Release Site (Looking North-Northwest)



Delaware River 2 – Release Site (Looking North-Northwest)





Delaware River 2 – Release Site (Looking North)



Delaware River 2 – Release Site (Looking Northwest)





Delaware River 2 – Release Site (Looking North)



Delaware River 2 – Release Site (Looking Northwest)

# **Appendix D**

## **Laboratory Analytical Reports**



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

---

September 15, 2017

BEN ARGUIJO

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: CLARK SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/16/17 8:59.

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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

Method EPA 552.2	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".

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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1 @ 6"	H702155-01	Soil	10-Aug-17 13:30	16-Aug-17 08:59
SP 2 @ 6"	H702155-02	Soil	10-Aug-17 13:34	16-Aug-17 08:59
SP 3 @ 6"	H702155-03	Soil	10-Aug-17 13:37	16-Aug-17 08:59
SP 4 @ 6"	H702155-04	Soil	10-Aug-17 13:45	16-Aug-17 08:59
SP 5 @ 6"	H702155-05	Soil	10-Aug-17 13:49	16-Aug-17 08:59
SP 6 @ 6"	H702155-06	Soil	10-Aug-17 13:52	16-Aug-17 08:59
SP 7 @ 6"	H702155-07	Soil	10-Aug-17 13:55	16-Aug-17 08:59
SP 8 @ 6"	H702155-08	Soil	10-Aug-17 13:57	16-Aug-17 08:59
SP 9 @ 6"	H702155-09	Soil	10-Aug-17 14:01	16-Aug-17 08:59
SP 10 @ 6"	H702155-10	Soil	10-Aug-17 14:05	16-Aug-17 08:59
SP 11 @ 6"	H702155-11	Soil	10-Aug-17 14:07	16-Aug-17 08:59
SP 12 @ 6"	H702155-12	Soil	10-Aug-17 14:10	16-Aug-17 08:59
SP 13 @ 6"	H702155-13	Soil	10-Aug-17 14:13	16-Aug-17 08:59
SP 14 @ 6"	H702155-14	Soil	10-Aug-17 14:17	16-Aug-17 08:59
SP 15 @ 6"	H702155-15	Soil	10-Aug-17 14:19	16-Aug-17 08:59
SP 16 @ 6"	H702155-16	Soil	10-Aug-17 14:22	16-Aug-17 08:59
SP 17 @ 6"	H702155-17	Soil	10-Aug-17 14:25	16-Aug-17 08:59
SP 18 @ 6"	H702155-18	Soil	10-Aug-17 14:30	16-Aug-17 08:59
SP 1 @ 1'	H702155-19	Soil	14-Aug-17 08:00	16-Aug-17 08:59
SP 1 @ 1.5'	H702155-20	Soil	14-Aug-17 08:45	16-Aug-17 08:59
SP 3 @ 2.5'	H702155-21	Soil	14-Aug-17 08:25	16-Aug-17 08:59
SP 3 @ 4'	H702155-22	Soil	14-Aug-17 09:00	16-Aug-17 08:59
AH 1 @ 4.5'	H702155-23	Soil	14-Aug-17 10:27	16-Aug-17 08:59
AH 2 @ 4.5'	H702155-24	Soil	14-Aug-17 10:08	16-Aug-17 08:59
AH 3 @ 4.5'	H702155-25	Soil	14-Aug-17 12:05	16-Aug-17 08:59
AH 4 @ 4.5'	H702155-26	Soil	14-Aug-17 12:40	16-Aug-17 08:59
AH 5 @ 2.5'	H702155-27	Soil	14-Aug-17 12:55	16-Aug-17 08:59

Cardinal Laboratories

\*=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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

AH 5 @ 4.5'	H702155-28	Soil	14-Aug-17 13:00	16-Aug-17 08:59
AH 6 @ 2'	H702155-29	Soil	14-Aug-17 13:07	16-Aug-17 08:59
AH 6 @ 4'	H702155-30	Soil	14-Aug-17 13:13	16-Aug-17 08:59
AH 7 @ 2'	H702155-31	Soil	14-Aug-17 13:21	16-Aug-17 08:59
AH 8 @ 2'	H702155-32	Soil	14-Aug-17 13:34	16-Aug-17 08:59

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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 1 @ 6"**  
**H702155-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			84.9 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			90.3 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	327		100	mg/kg wet	100	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 2 @ 6"**  
**H702155-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			105 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			108 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	11900		250	mg/kg wet	250	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 3 @ 6"**  
**H702155-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			92.3 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			91.6 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	36700		1000	mg/kg wet	1000	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 4 @ 6"**  
**H702155-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			96.6 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			97.2 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	3490		200	mg/kg wet	200	B708207	JDA	29-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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 5 @ 6"**  
**H702155-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>67.1</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>15.5</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			103 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			110 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	2580		200	mg/kg wet	200	B708207	JDA	29-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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 6 @ 6"**  
**H702155-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			105 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			106 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	10600		250	mg/kg wet	250	B708207	JDA	29-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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 7 @ 6"**  
**H702155-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			107 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			108 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	17400		500	mg/kg wet	500	B708207	JDA	29-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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 8 @ 6"**  
**H702155-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10</b>	<b>986</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>7270</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>998</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			195 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			196 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

<b>Chloride</b>	<b>8470</b>		200	mg/kg wet	200	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 9 @ 6"**  
**H702155-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10</b>	<b>315</b>		50.0	mg/kg	5	7081809	MS	18-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>15900</b>		50.0	mg/kg	5	7081809	MS	18-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>2690</b>		50.0	mg/kg	5	7081809	MS	18-Aug-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			177 %	28.3-164		7081809	MS	18-Aug-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			353 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

<b>Chloride</b>	<b>9320</b>		200	mg/kg wet	200	B708207	JDA	29-Aug-17	EPA300.0	
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TRINITY OILFIELD SERVICES & RENTALS, LLC  
P. O. BOX 2587  
HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 10 @ 6"**  
**H702155-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10</b>	<b>24.4</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>1560</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>301</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			109 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			131 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

<b>Chloride</b>	<b>12500</b>		500	mg/kg wet	500	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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**SP 11 @ 6"**  
**H702155-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>2540</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>567</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			91.3 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			145 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	21300		500	mg/kg wet	500	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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Reported:  
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**SP 12 @ 6"**  
**H702155-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>203</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>55.7</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			94.2 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			104 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	16400		500	mg/kg wet	500	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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**SP 13 @ 6"**  
**H702155-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			110 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			113 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	13300		500	mg/kg wet	500	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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Reported:  
15-Sep-17 16:09

**SP 14 @ 6"**  
**H702155-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10</b>	<b>3750</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>39400</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>5790</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			320 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			1050 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

<b>Chloride</b>	<b>4680</b>		200	mg/kg wet	200	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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Reported:  
15-Sep-17 16:09

**SP 15 @ 6"**  
**H702155-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10</b>	<b>1530</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>33900</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>5160</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			268 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			858 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

<b>Chloride</b>	<b>1140</b>		50.0	mg/kg wet	50	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 16 @ 6"**  
**H702155-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10</b>	<b>1300</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>25800</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>4080</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			225 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			574 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

<b>Chloride</b>	<b>155</b>		10.0	mg/kg wet	10	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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Reported:  
15-Sep-17 16:09

**SP 17 @ 6"**  
**H702155-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10</b>	<b>42.6</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>4300</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>916</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			99.2 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			171 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

<b>Chloride</b>	<b>11500</b>		250	mg/kg wet	250	B708207	JDA	29-Aug-17	EPA300.0	
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Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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Reported:  
15-Sep-17 16:09

**SP 18 @ 6"**  
**H702155-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10</b>	<b>232</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>13100</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>2540</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			161 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			364 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

<b>Chloride</b>	<b>21600</b>		500	mg/kg wet	500	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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Reported:  
15-Sep-17 16:09

**SP 1 @ 1'**  
**H702155-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>103</b>		10.0	mg/kg wet	10	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 1 @ 1.5'**  
**H702155-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>10.4</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>27.7</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			95.5 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			99.8 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	91.0		10.0	mg/kg wet	10	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 3 @ 2.5'**  
**H702155-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			98.7 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			103 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	3300		250	mg/kg wet	250	B708225	JDA	28-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**SP 3 @ 4'**  
**H702155-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>1680</b>		100	mg/kg wet	100	B709073	JDA	13-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
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**AH 1 @ 4.5'**  
**H702155-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>3320</b>		100	mg/kg wet	100	B709073	JDA	13-Sep-17	EPA300.0	
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**Analytical Results For:**

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P. O. BOX 2587  
HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**AH 2 @ 4.5'**  
**H702155-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>8920</b>		200	mg/kg wet	200	B709073	JDA	13-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**AH 3 @ 4.5'**  
**H702155-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

Chloride	6830		200	mg/kg wet	200	B709073	JDA	13-Sep-17	EPA300.0	
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**Analytical Results For:**

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P. O. BOX 2587  
HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**AH 4 @ 4.5'**  
**H702155-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>10900</b>		250	mg/kg wet	250	B709073	JDA	13-Sep-17	EPA300.0	
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**Analytical Results For:**

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HOBBS NM, 88241

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**AH 5 @ 2.5'**  
**H702155-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			96.8 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			100 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	9200		250	mg/kg wet	250	B708225	JDA	28-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**AH 5 @ 4.5'**  
**H702155-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>679</b>		50.0	mg/kg wet	50	B709073	JDA	13-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**AH 6@ 2'**  
**H702155-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			102 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			107 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	251		10.0	mg/kg wet	10	B708225	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**AH 6 @ 4'**  
**H702155-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>628</b>		50.0	mg/kg wet	50	B709073	JDA	13-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**AH 7 @ 2'**  
**H702155-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			106 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			105 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	19.7		10.0	mg/kg wet	10	B708225	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**AH 8 @ 2'**  
**H702155-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			93.3 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			92.3 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	11.2		10.0	mg/kg wet	10	B708225	JDA	28-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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 7081809 - General Prep - Organics****Blank (7081809-BLK1)**

Prepared &amp; Analyzed: 18-Aug-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	46.9		mg/kg	50.0		93.7	28.3-164			
Surrogate: 1-Chlorooctadecane	50.5		mg/kg	50.0		101	34.7-157			

**LCS (7081809-BS1)**

Prepared &amp; Analyzed: 18-Aug-17

GRO C6-C10	212	10.0	mg/kg	200		106	76.6-119			
DRO >C10-C28	211	10.0	mg/kg	200		106	81.4-124			
Total TPH C6-C28	424	10.0	mg/kg	400		106	79.4-121			
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	28.3-164			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	34.7-157			

**LCS Dup (7081809-BSD1)**

Prepared &amp; Analyzed: 18-Aug-17

GRO C6-C10	205	10.0	mg/kg	200		103	76.6-119	3.32	7.94	
DRO >C10-C28	205	10.0	mg/kg	200		102	81.4-124	3.25	9.83	
Total TPH C6-C28	410	10.0	mg/kg	400		102	79.4-121	3.28	8.57	
Surrogate: 1-Chlorooctane	51.3		mg/kg	50.0		103	28.3-164			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	34.7-157			

**Batch 7081810 - General Prep - Organics****Blank (7081810-BLK1)**

Prepared: 18-Aug-17 Analyzed: 19-Aug-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	48.2		mg/kg	50.0		96.4	28.3-164			

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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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch 7081810 - General Prep - Organics****Blank (7081810-BLK1)**

Prepared: 18-Aug-17 Analyzed: 19-Aug-17

Surrogate: 1-Chlorooctadecane	51.9		mg/kg	50.0		104	34.7-157			
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**LCS (7081810-BS1)**

Prepared: 18-Aug-17 Analyzed: 19-Aug-17

GRO C6-C10	221	10.0	mg/kg	200		111	76.6-119			
DRO >C10-C28	226	10.0	mg/kg	200		113	81.4-124			
Total TPH C6-C28	447	10.0	mg/kg	400		112	79.4-121			
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0		113	28.3-164			
Surrogate: 1-Chlorooctadecane	60.1		mg/kg	50.0		120	34.7-157			

**LCS Dup (7081810-BSD1)**

Prepared: 18-Aug-17 Analyzed: 19-Aug-17

GRO C6-C10	219	10.0	mg/kg	200		109	76.6-119	1.12	7.94	
DRO >C10-C28	212	10.0	mg/kg	200		106	81.4-124	6.16	9.83	
Total TPH C6-C28	431	10.0	mg/kg	400		108	79.4-121	3.64	8.57	
Surrogate: 1-Chlorooctane	55.0		mg/kg	50.0		110	28.3-164			
Surrogate: 1-Chlorooctadecane	59.1		mg/kg	50.0		118	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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**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 B708207 - General Prep - Wet Chem****Blank (B708207-BLK1)**

Prepared: 24-Aug-17 Analyzed: 30-Aug-17

Chloride	ND	10.0	mg/kg wet							
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**LCS (B708207-BS1)**

Prepared: 24-Aug-17 Analyzed: 29-Aug-17

Chloride	247	10.0	mg/kg wet	250		98.7	85-115			
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**LCS Dup (B708207-BSD1)**

Prepared: 24-Aug-17 Analyzed: 29-Aug-17

Chloride	244	10.0	mg/kg wet	250		97.8	85-115	0.969	20	
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**Batch B708225 - General Prep - Wet Chem****Blank (B708225-BLK1)**

Prepared: 24-Aug-17 Analyzed: 28-Aug-17

Chloride	ND	10.0	mg/kg wet							
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**LCS (B708225-BS1)**

Prepared: 24-Aug-17 Analyzed: 28-Aug-17

Chloride	241	10.0	mg/kg wet	250		96.4	85-115			
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**LCS Dup (B708225-BSD1)**

Prepared: 24-Aug-17 Analyzed: 28-Aug-17

Chloride	241	10.0	mg/kg wet	250		96.5	85-115	0.0332	20	
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**Batch B709073 - General Prep - Wet Chem****Blank (B709073-BLK1)**

Prepared: 11-Sep-17 Analyzed: 13-Sep-17

Chloride	ND	10.0	mg/kg wet							
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**LCS (B709073-BS1)**

Prepared: 11-Sep-17 Analyzed: 13-Sep-17

Chloride	245	10.0	mg/kg wet	250		98.1	85-115			
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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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
15-Sep-17 16:09

**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 B709073 - General Prep - Wet Chem****LCS Dup (B709073-BSD1)**

Prepared: 11-Sep-17 Analyzed: 13-Sep-17

Chloride	243	10.0	mg/kg wet	250		97.3	85-115	0.856	20	
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### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

---

Celey D. Keene, Lab Director/Quality Manager









## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 4

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

BILL TO		ANALYSIS REQUEST																
P.O. #:		Company		Attn:		Address:		City:		State:		Zip:						
Project Manager:		Trinity																
Address:		P.O. Box 2587																
City:		Hobbs																
Phone #:		(575)390-7208																
Project #:																		
Project Name:		Clark SWD																
Project Location:		Lea Co., NM																
Sampler Name:		Duskie Bennett																
Lab I.D.	Sample I.D.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	PRESERV.	SAMPLING	DATE	TIME	TPH (8015M)	BTEX (8021B)	Chloride (300)
1702155		G 1			X					X				8/14/17	0825	X		X
21	SP3 @2.5'	G 1			X					X				8/14/17	0900	X		X
22	SP3 @4'	G 1			X					X				8/14/17	1027	X		X
23	AH 1 @4.5'	G 1			X					X				8/14/17	1008	X		X
24	AH2 @4.5'	G 1			X					X				8/14/17	1205	X		X
25	AH3 @4.5'	G 1			X					X				8/14/17	1240	X		X
26	AH4 @4.5'	G 1			X					X				8/14/17	1255	X		X
27	AH5 @2.5'	G 1			X					X				8/14/17	1300	X		X
28	AH5 @4.5'	G 1			X					X				8/14/17	1307	X		X
29	AH6 @2'	G 1			X					X				8/14/17	1313	X		X
30	AH6 @4'	G 1			X					X				8/14/17	1313	X		X

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Relinquished By:	Date:	Received By:	Date:	Phone Result:	Yes	No	Add'l Phone #:
<i>Duskie Bennett</i>	8/16/17	<i>Debi Benson</i>	8/16/17		<input type="checkbox"/>	<input type="checkbox"/>	
Time:	0859	Time:		Fax Result:	<input type="checkbox"/>	<input type="checkbox"/>	Add'l Fax #:
Date:		Date:		REMARKS:			
Time:		Time:		Call for BTEX instructions.			
Delivered By: (Circle One)				Please e-mail results to ben@trinityoilfieldservices.com			
Sampler - UPS - Bus - Other: #75							

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

FORM-006

Revision 1.0

Corrected - 2.85c





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

---

September 11, 2017

BEN ARGUIJO

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: CLARK SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/28/17 12:32.

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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

Method EPA 552.2	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 letters of the first and last names being capitalized and prominent.

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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1@6.5'	H702269-01	Soil	17-Aug-17 12:37	28-Aug-17 12:32
AH-1@8.5'	H702269-02	Soil	17-Aug-17 12:50	28-Aug-17 12:32
AH-1@10.5'	H702269-03	Soil	17-Aug-17 13:06	28-Aug-17 12:32
AH-1@12.5'	H702269-04	Soil	17-Aug-17 13:30	28-Aug-17 12:32
AH-5@7'	H702269-05	Soil	17-Aug-17 16:00	28-Aug-17 12:32
AH-6@6'	H702269-06	Soil	17-Aug-17 16:37	28-Aug-17 12:32
AH-6@10'	H702269-07	Soil	18-Aug-17 09:20	28-Aug-17 12:32
AH-6@11'	H702269-08	Soil	18-Aug-17 09:42	28-Aug-17 12:32

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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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

**AH-1@6.5'**  
**H702269-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctane			105 %	28.3-164		7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			114 %	34.7-157		7082806	MS	29-Aug-17	8015B	

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

Chloride	877		20.0	mg/kg wet	20	B709023	JDA	07-Sep-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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

**AH-1@8.5'**  
**H702269-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

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

<b>Chloride</b>	<b>215</b>		20.0	mg/kg wet	20	B709023	JDA	07-Sep-17	EPA300.0	
-----------------	------------	--	------	-----------	----	---------	-----	-----------	----------	--

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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

**AH-1@10.5'**  
**H702269-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

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

<b>Chloride</b>	<b>323</b>		20.0	mg/kg wet	20	B709023	JDA	07-Sep-17	EPA300.0	
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Cardinal Laboratories

\*=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: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

**AH-1@12.5'**  
**H702269-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
<b>DRO &gt;C10-C28</b>	<b>54.4</b>		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>27.3</b>		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctane			110 %	28.3-164		7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			120 %	34.7-157		7082806	MS	29-Aug-17	8015B	

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

Chloride	66.0		20.0	mg/kg wet	20	B709023	JDA	07-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

**AH-5@7'**  
**H702269-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctane			103 %	28.3-164		7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			107 %	34.7-157		7082806	MS	29-Aug-17	8015B	

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

Chloride	90.8		10.0	mg/kg wet	10	B709023	JDA	07-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

**AH-6@6'**  
**H702269-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctane			87.7 %	28.3-164		7082911	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			92.8 %	34.7-157		7082911	MS	29-Aug-17	8015B	

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

Chloride	686		20.0	mg/kg wet	20	B709023	JDA	08-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

**AH-6@10'**  
**H702269-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>206</b>		10.0	mg/kg wet	10	B709023	JDA	07-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

**AH-6@11'**  
**H702269-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctane			93.3 %	28.3-164		7082911	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			98.8 %	34.7-157		7082911	MS	29-Aug-17	8015B	

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

Chloride	93.1		20.0	mg/kg wet	20	B709023	JDA	07-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

**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 7082806 - General Prep - Organics****Blank (7082806-BLK1)**

Prepared: 28-Aug-17 Analyzed: 29-Aug-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	45.7		mg/kg	50.0		91.4	28.3-164			
Surrogate: 1-Chlorooctadecane	51.3		mg/kg	50.0		103	34.7-157			

**LCS (7082806-BS1)**

Prepared: 28-Aug-17 Analyzed: 29-Aug-17

GRO C6-C10	198	10.0	mg/kg	200		99.0	76.6-119			
DRO >C10-C28	192	10.0	mg/kg	200		96.0	81.4-124			
Total TPH C6-C28	390	10.0	mg/kg	400		97.5	79.4-121			
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0		103	28.3-164			
Surrogate: 1-Chlorooctadecane	50.6		mg/kg	50.0		101	34.7-157			

**LCS Dup (7082806-BSD1)**

Prepared: 28-Aug-17 Analyzed: 29-Aug-17

GRO C6-C10	207	10.0	mg/kg	200		103	76.6-119	4.24	7.94	
DRO >C10-C28	205	10.0	mg/kg	200		103	81.4-124	6.51	9.83	
Total TPH C6-C28	412	10.0	mg/kg	400		103	79.4-121	5.36	8.57	
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	28.3-164			
Surrogate: 1-Chlorooctadecane	55.2		mg/kg	50.0		110	34.7-157			

**Batch 7082911 - General Prep - Organics****Blank (7082911-BLK1)**

Prepared &amp; Analyzed: 29-Aug-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	43.7		mg/kg	50.0		87.5	28.3-164			

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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

**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 7082911 - General Prep - Organics****Blank (7082911-BLK1)**

Prepared &amp; Analyzed: 29-Aug-17

Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0		97.1	34.7-157			
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**LCS (7082911-BS1)**

Prepared &amp; Analyzed: 29-Aug-17

GRO C6-C10	182	10.0	mg/kg	200		91.1	76.6-119			
DRO >C10-C28	201	10.0	mg/kg	200		101	81.4-124			
Total TPH C6-C28	384	10.0	mg/kg	400		95.9	79.4-121			
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	28.3-164			
Surrogate: 1-Chlorooctadecane	56.6		mg/kg	50.0		113	34.7-157			

**LCS Dup (7082911-BSD1)**

Prepared &amp; Analyzed: 29-Aug-17

GRO C6-C10	179	10.0	mg/kg	200		89.7	76.6-119	1.64	7.94	
DRO >C10-C28	202	10.0	mg/kg	200		101	81.4-124	0.442	9.83	
Total TPH C6-C28	381	10.0	mg/kg	400		95.4	79.4-121	0.542	8.57	
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	28.3-164			
Surrogate: 1-Chlorooctadecane	57.3		mg/kg	50.0		115	34.7-157			

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**Analytical Results For:**

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

Project: CLARK SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Sep-17 11:22

**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 B709023 - General Prep - Wet Chem****Blank (B709023-BLK1)**

Prepared: 05-Sep-17 Analyzed: 08-Sep-17

Chloride	ND	10.0	mg/kg wet							
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**LCS (B709023-BS1)**

Prepared: 05-Sep-17 Analyzed: 07-Sep-17

Chloride	240	10.0	mg/kg wet	250		95.9	85-115			
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**LCS Dup (B709023-BSD1)**

Prepared: 05-Sep-17 Analyzed: 07-Sep-17

Chloride	240	10.0	mg/kg wet	250		95.8	85-115	0.104	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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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

[illegible]

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Relinquished By: <u>M. Lucio Bennett</u> Date: <u>8/28/12</u> Time: <u>11:32</u>		Received By: <u>Haley Carbow</u> Date: _____ Time: _____	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	
Checked BY: (Initials) <u>HC</u>		20°C / 2.25"	

FORM-006  
Revision 1.0

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

Corrected  $t. 25^{\circ}\text{C}$

Incident ID	
District RP	2RP-4311
Facility ID	30-015-24784
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: DALE GROSSMAN Title: OPERATIONS MANAGER  
Signature: [Signature] Date: 10/31/18  
email: dale@permianwvs.com Telephone: 432.894.3636

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Signature: \_\_\_\_\_ Date: \_\_\_\_\_





PO Box 301 | Lovington, NM 88260 | Phone 575.396.2378

**October 30, 2018**

**Attn. Maria Pruett**  
NMOCD, District 2  
811 South First Street  
Artesia, NM 88210

**RE: Corrective Action Plan  
Cambrian Management  
Delaware River #2 SWD  
UL/E Sec.11, T26S R28E  
32.058923, -104.063282  
NMOCD Reference # 2RP – 4311**

Ms. Pruett:

Cambrian Management (Cambrian) has retained Etech Environmental & Safety Solutions, Inc. (Etech) to address potential environmental concerns at the above-referenced site.

### **Background and Previous Work**

The site is located approximately eight and one-half (8.5) miles south of Malaga, New Mexico at Unit Letter E of Section 11 in Township 26 South of Range 28 East (See Figure 1). This site is located in an area where groundwater is anticipated to be encountered at an estimated depth one-hundred twenty (120) +/- feet below ground surface (bgs) (See Figure 2).

On July 25<sup>th</sup>, 2017, Cambrian discovered a release of approximately fifty (50) barrels (bbls) of produced water when a wellhead connection failed. An estimated ten (10) bbls were recovered. A visible stain encompassed an estimated eighty-nine thousand seven-hundred and ninety-four (89,794) square feet (ft<sup>2</sup>) of gypsum pad and pasture. New Mexico Oil Conservation Division (NMOCD) was notified of the release on July 25<sup>th</sup>, 2017, and an initial C-141 was submitted to NMOCD on July 26<sup>th</sup>, 2017 for approval.

A previous environmental company performed an initial assessment in August of 2017. The sampling events ranged from six (6) inches to twelve and one-half (12.5) feet. Delineation was achieved for SP-1, SP-16, AH-1, AH-5, AH-6, and AH-7 utilizing the historic precedence before August of 2018 (See Figure 3).

Etech personnel were on site beginning June 25<sup>th</sup>, 2018, to perform another assessment. Discrete soil samples were retrieved on the perimeter of the stain to establish the horizontal extent of the impact. Field screens indicate that the release spread in the subsurface or a historical(s) release was encountered as the subsurface perimeter extended beyond the visible stain. After determining where the impacted soil was below the recommended remediation action level (RRAL) of 20,000 mg/kg for chloride concentration, the total impacted area to be remediated is estimated to be one-hundred forty-seven thousand and fifteen (147,015) square feet (See Figure 4.).

## Corrective Action Plan

The impacted area will have numerous sample points established both on the pad as well as in the pasture area. Each sample point will begin at the surface and continue vertically in 1' increments until field screening and confirmatory laboratory analyses confirm that no constituent of interest is above the RRAL. During remediation, horizontal delineation will be determined and confirmed with laboratory analyses.

The pad area will be excavated to a depth where analyses of benzene, toluene, ethyl-benzene xylenes (BTEX), gasoline range organics (GRO), diesel range organics (DRO), oil range organics (ORO), (total petroleum hydrocarbons) [TPH], and chloride concentrations are below the RRAL (2,500 mg/kg – TPH, 50 mg/kg – BTEX, 20,000 mg/kg – chlorides). The remediated soils will be disposed of at an NMOCD approved landfill. The excavated pad area will be backfilled with clean, non-impacted gypsum, rolled and compacted before being contoured to the surrounding area.

The impacted pasture area will be excavated to a maximum depth of four (4) feet bgs. Once the floor depth of the excavation is established, numerous discrete soil samples will be retrieved from both the floor of the excavation as well as the walls and delivered to an NMOCD approved laboratory for analyses BTEX, TPH, and chlorides. If the laboratory analyses indicate any of the constituents of interest are above the RRAL, further horizontal excavation will resume (See attached Perimeter Sampling and Excavation map). The impacted soil will be removed and disposed of at an approved NMOCD facility. The pasture excavation will be backfilled with clean, non-impacted topsoil and contoured to the surrounding area.

In the event the reserve pit area is encountered during excavation, the reserve pit will be remediated to below RRAL for BTEX, TPH, and chloride concentrations.

At a time conducive for germination, the location will be seeded with the preferred seed mix of the land owner free of noxious or invasive vegetation. The seed will be applied with either a drill or broadcast method to ensure complete coverage of affected area. The seeds will then be sown with a disc (in compacted soils), rake or a harrow.

The estimated time to complete this project is a minimum of six (6) months with an approximate 20,000 yd<sup>3</sup> being remediated.

The supporting documentation for this Corrective Action Plan is attached.

Etech appreciates the opportunity to work with you on this project. Please contact me if you have any questions or wish to discuss the site.

Sincerely,

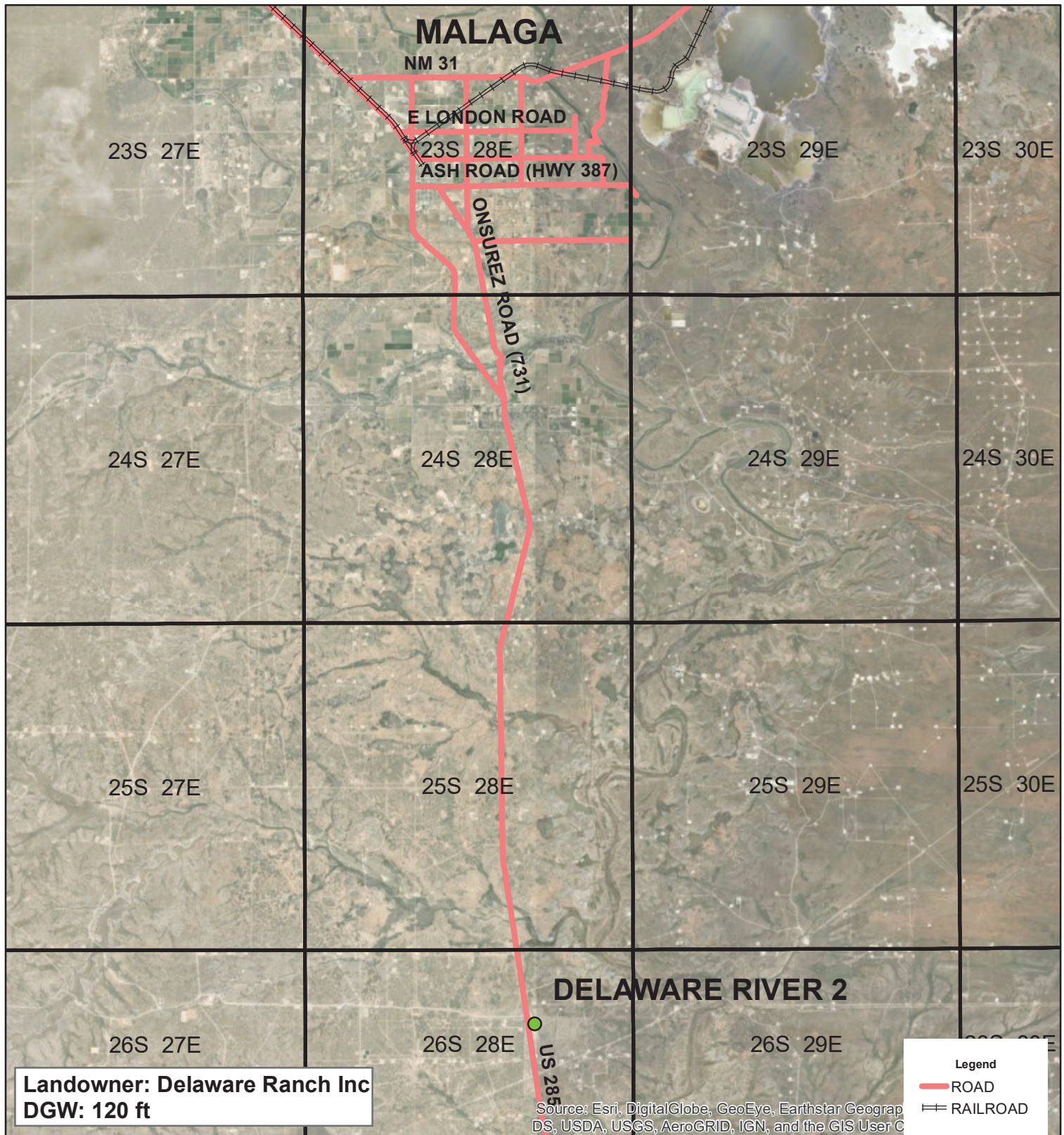
A handwritten signature in black ink, consisting of a stylized 'M' followed by a long horizontal line.



Robbie Runnels  
Project Manager  
Etech Environmental & Safety Solutions, Inc.  
(575) 396-2378

Attachments:

Figure 1 – Site Location Map  
Figure 2 - Approximate Depth to Groundwater  
Figure 3 – Initial Sampling Map  
Figure 4 - Area Sampling Data and Proposed Excavation  
Table 1 - Soil Chemistry Table  
Appendix A – Photo Documentation  
Appendix B – Initial C-141 Form  
Appendix C – Analytical Reports



## **CAMBRIAN DELAWARE RIVER 2**

**UL E & F SECTION 11  
T-26-S R-28-E  
EDDY COUNTY, NM**

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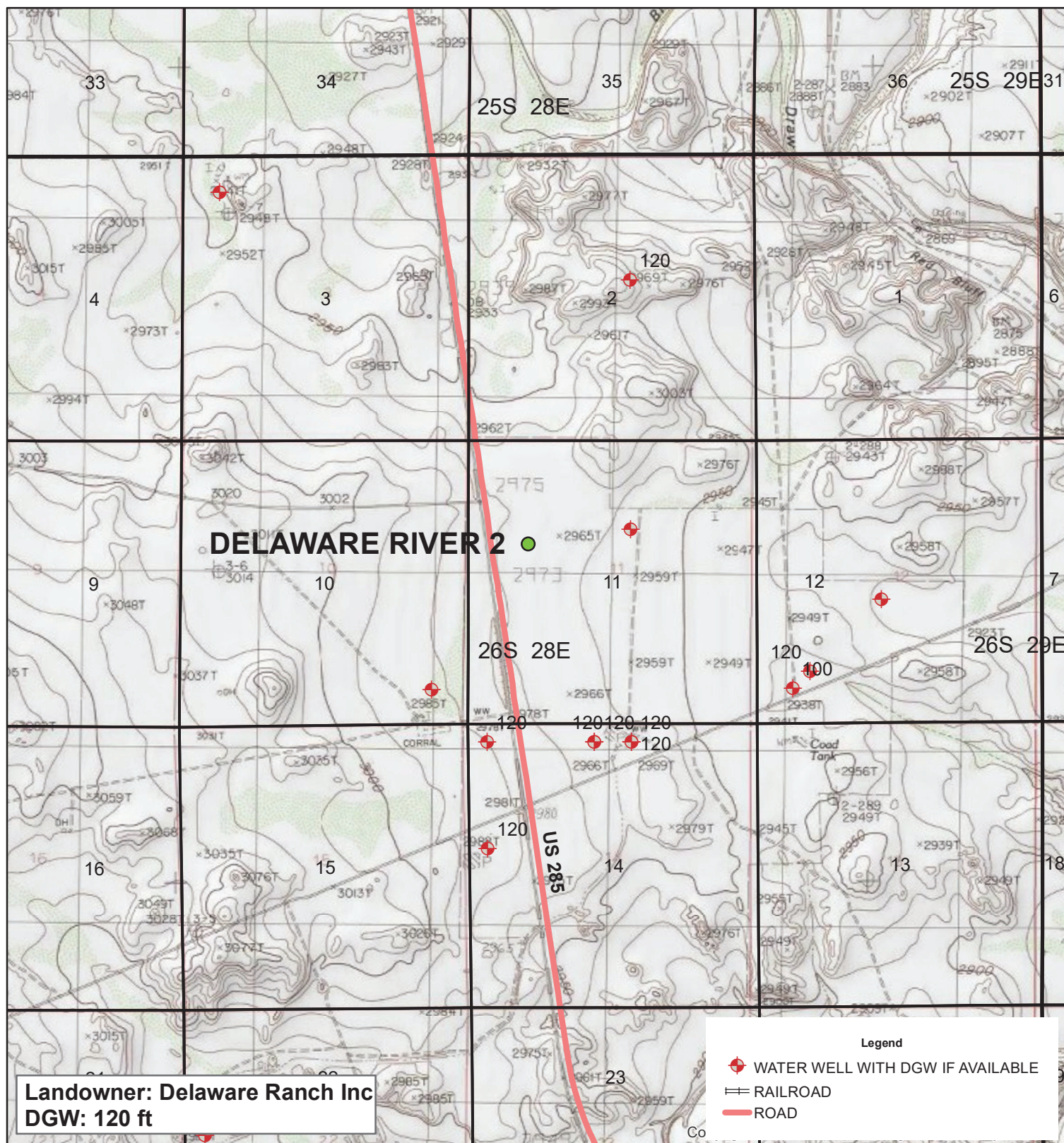
0 1 2  
Miles

Drawing date: 7/30/18  
Drafted by: T. Grieco





## Depth to Groundwater



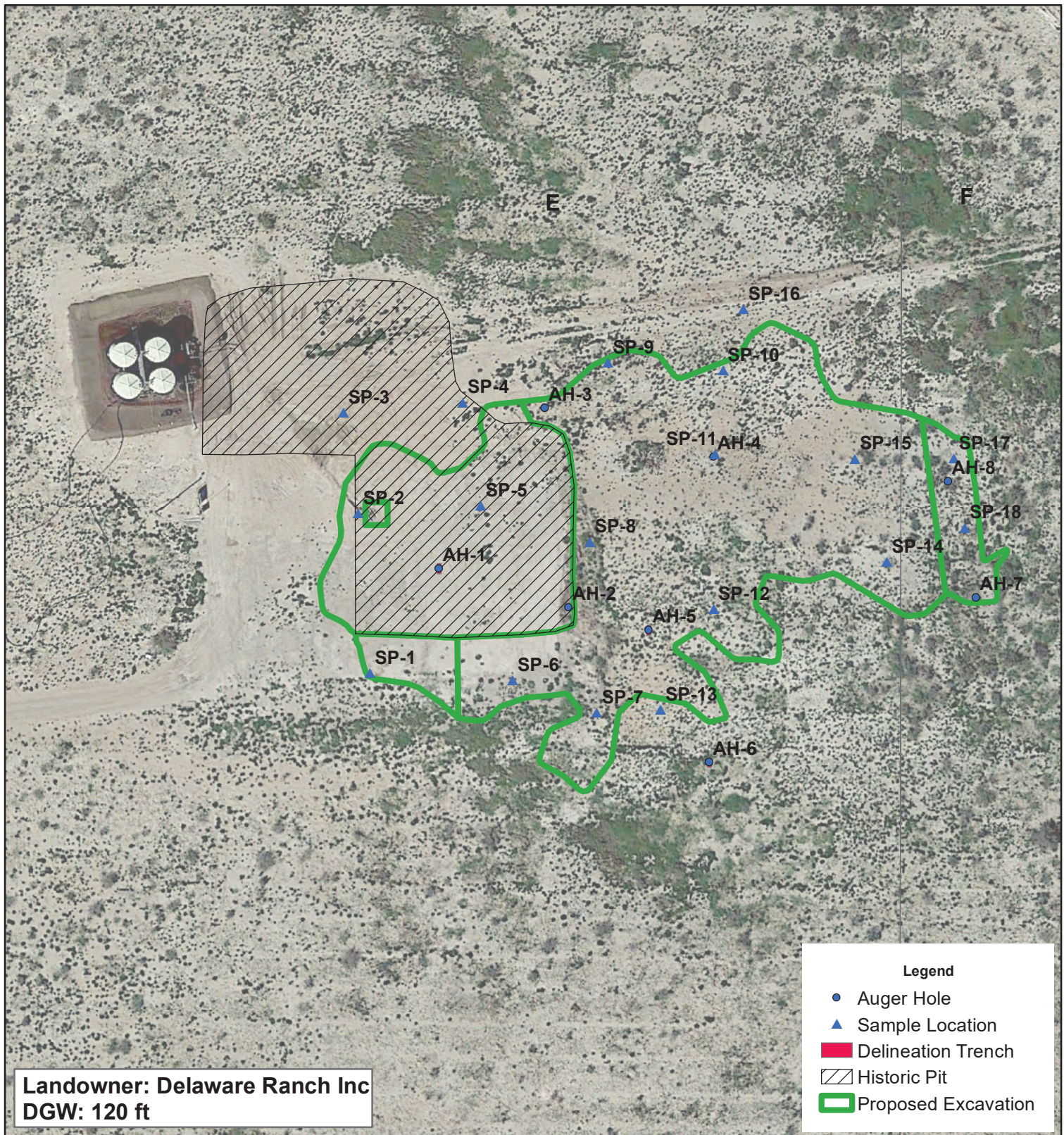
**eTECH**  
Environmental & Safety Solutions, Inc.

## CAMBRIAN DELAWARE RIVER 2

UL E & F SECTION 11  
T-26-S R-28-E  
EDDY COUNTY, NM



## Initial Sampling



## CAMBRIAN DELAWARE RIVER 2

UL E & F SECTION 11  
T-26-S R-28-E  
EDDY COUNTY, NM

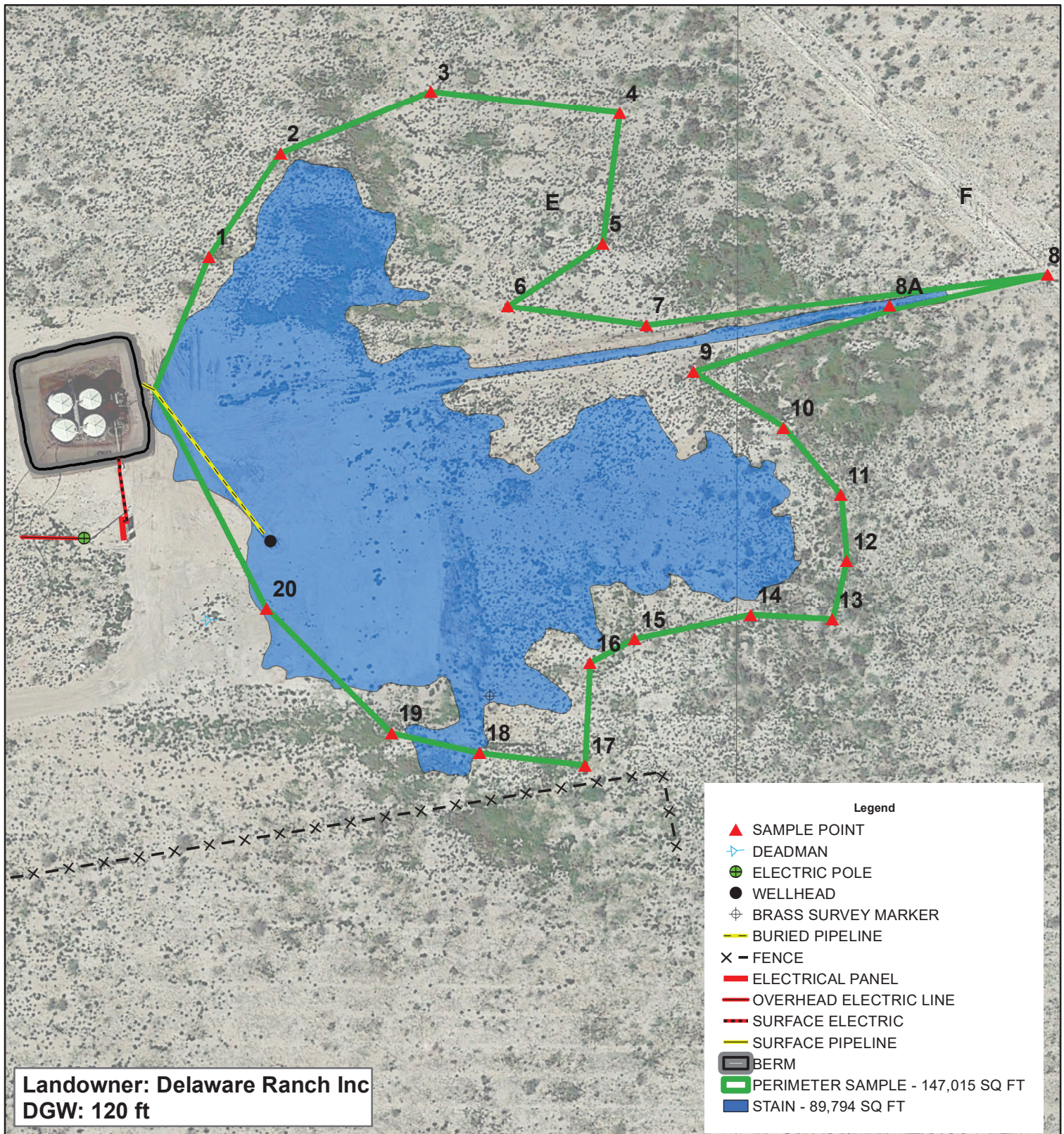
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Feet

Drawing date: 6/7/18  
Drafted by: T. Grieco







## CAMBRIAN DELAWARE RIVER 2

UL E & F SECTION 11  
T-26-S R-28-E  
EDDY COUNTY, NM

GPS: 32.058923 -104.063282

0 50 100  
Feet

GPS date: 6/25/18, 7/9/18 JH  
Drawing date: 7/11/18  
Drafted by: T. Grieco





TABLE 1  
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL  
DELAWARE RIVER 2  
CAMBRIAN MANAGEMENT  
EDDY COUNTY, NEW MEXICO  
NMOCD REF. #: 2RP-4311

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-3021B, 5030						METHOD: 8015M				METHOD: 300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	EXT DRO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)		
NMOCD Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	50	NE	NE	NE	5,000	600	
	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	327	
SP-1 @ 6"	6"	8/10/2017	In-Situ	-	-	-	-	-	-	-	-	-	103	
SP-1 @ 1'	1'	8/14/2017	In-Situ	-	-	-	-	-	<10.0	10.4	27.7	38.1	91.0	
SP-1 @ 1.5'	1.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	
	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	11,900	
	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	36,700	
SP-3 @ 6"	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	3,300	
SP-3 @ 2.5'	2.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	1,680	
SP-3 @ 4'	4'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	-	
	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	3,490	
SP-4 @ 6"	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	67.1	15.5	82.6	2,580	
	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	10,600	
SP-6 @ 6"	6"	8/10/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	17,400	
	6"	8/10/2017	Excavated	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	17,400	
	6"	8/10/2017	Excavated	-	-	-	-	-	986	7,270	998	9,254	8,470	
SP-8 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	395	15,900	2,690	18,985	9,320	
SP-9 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	24.4	1,560	301	1,885	12,500	
SP-10 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	<10.0	2,540	567	3,107	21,300	
SP-11 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	<10.0	203	55.7	259	16,400	
SP-12 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	13,300	
SP-13 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	3,750	39,400	5,790	48,940	4,680	
SP-14 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	1,530	33,900	5,160	40,590	1,140	
SP-15 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	1,300	25,800	4,080	31,180	155	
	6"	8/10/2017	Excavated	-	-	-	-	-	42.6	4,300	916	5,259	11,500	
SP-16 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	232	13,100	2,540	15,872	21,600	
SP-17 @ 6"	6"	8/10/2017	Excavated	-	-	-	-	-	-	-	-	-	-	
	6"	8/10/2017	Excavated	-	-	-	-	-	-	-	-	-	-	

TABLE 1  
CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL  
DELAWARE RIVER 2  
CAMBRIAN MANAGEMENT  
EDDY COUNTY, NEW MEXICO  
NIMOD REF. #: 2RP-4311

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030						METHOD: 8015M				METHOD: 300
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL-BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	EXT DRO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)	
NMOC Recommended Remediation Action Levels (RRALs)				10	NE	NE	NE	50	NE	NE	NE	5,000	600	
AH-1 @ 4.5'	4.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	3,320	
AH-1 @ 6.5'	6.5'	8/17/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	877	
AH-1 @ 8.5'	8.5'	8/17/2017	In-Situ	-	-	-	-	-	-	-	-	-	215	
AH-1 @ 10.5'	10.5'	8/17/2017	In-Situ	-	-	-	-	-	-	-	-	-	323	
AH-1 @ 12.5'	12.5'	8/17/2017	In-Situ	-	-	-	-	-	<10.0	54.4	27.3	81.7	66.0	
AH-2 @ 4.5'	4.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	8,920	
AH-3 @ 4.5'	4.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	6,830	
AH-4 @ 4.5'	4.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	10,900	
AH-5 @ 2.5'	2.5'	8/14/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	9,200	
AH-5 @ 4.5'	4.5'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	679	
AH-5 @ 7'	7'	8/17/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	90.8	
AH-6 @ 2'	2'	8/14/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	251	
AH-6 @ 4'	4'	8/14/2017	In-Situ	-	-	-	-	-	-	-	-	-	628	
AH-6 @ 6'	6'	8/17/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	686	
AH-6 @ 10'	10'	8/18/2017	In-Situ	-	-	-	-	-	-	-	-	-	206	
AH-6 @ 11'	11'	8/18/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	93.1	
AH-7 @ 2'	2'	8/14/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	19.7	
AH-8 @ 2'	2'	8/14/2017	In-Situ	-	-	-	-	-	<10.0	<10.0	<10.0	<10.0	11.2	

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NIMOD RRALs

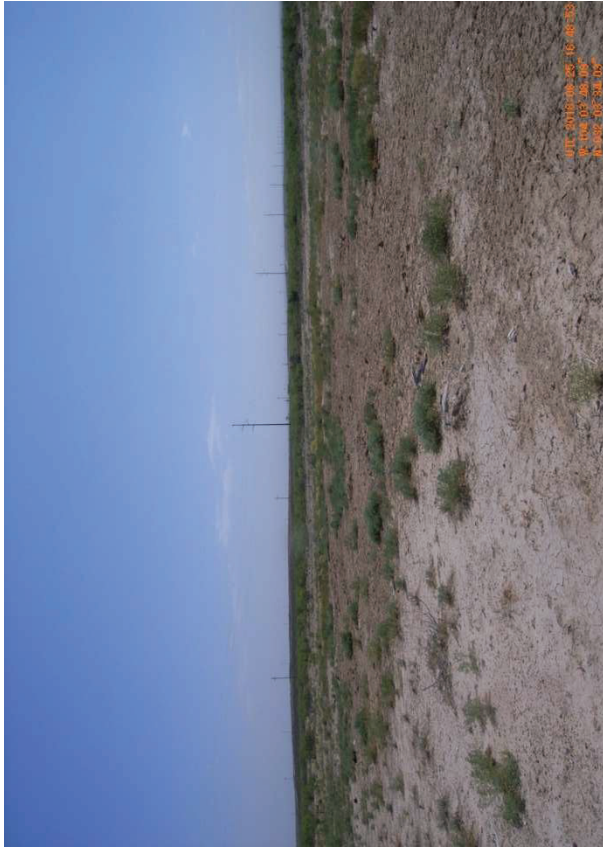
**DELAWARE RIVER 2 2RP-4311**

Unit E, Section 11, T26S, R28E



Release Area

6/25/2018



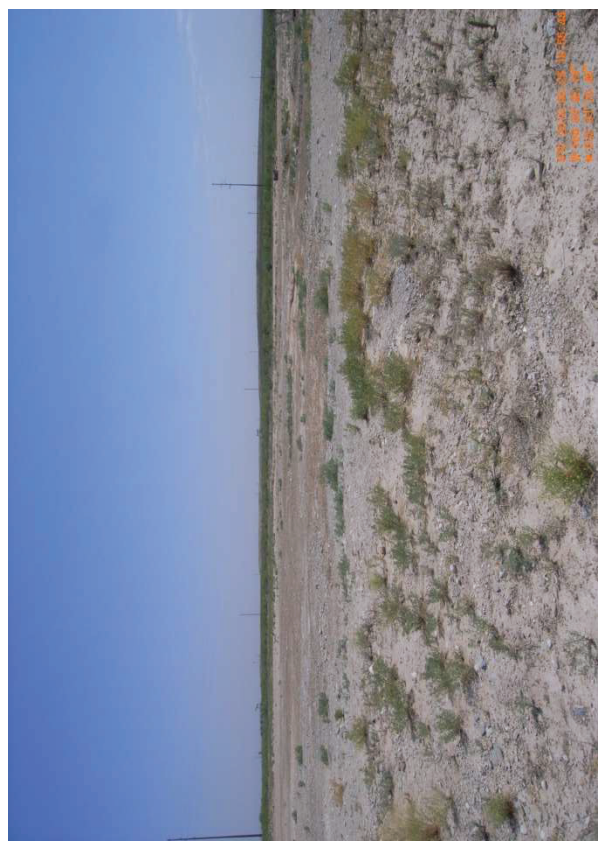
Release Area

6/25/2018



Release Area

6/25/2018



Release Area

6/25/2018

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

---

January 22, 2018

BEN ARGUIJO

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: DELAWARE RIVER 2

Enclosed are the results of analyses for samples received by the laboratory on 08/16/17 8:59.

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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

Method EPA 552.2	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 written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager





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

**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP 1 @ 6"	H702155-01	Soil	10-Aug-17 13:30	16-Aug-17 08:59
SP 2 @ 6"	H702155-02	Soil	10-Aug-17 13:34	16-Aug-17 08:59
SP 3 @ 6"	H702155-03	Soil	10-Aug-17 13:37	16-Aug-17 08:59
SP 4 @ 6"	H702155-04	Soil	10-Aug-17 13:45	16-Aug-17 08:59
SP 5 @ 6"	H702155-05	Soil	10-Aug-17 13:49	16-Aug-17 08:59
SP 6 @ 6"	H702155-06	Soil	10-Aug-17 13:52	16-Aug-17 08:59
SP 7 @ 6"	H702155-07	Soil	10-Aug-17 13:55	16-Aug-17 08:59
SP 8 @ 6"	H702155-08	Soil	10-Aug-17 13:57	16-Aug-17 08:59
SP 9 @ 6"	H702155-09	Soil	10-Aug-17 14:01	16-Aug-17 08:59
SP 10 @ 6"	H702155-10	Soil	10-Aug-17 14:05	16-Aug-17 08:59
SP 11 @ 6"	H702155-11	Soil	10-Aug-17 14:07	16-Aug-17 08:59
SP 12 @ 6"	H702155-12	Soil	10-Aug-17 14:10	16-Aug-17 08:59
SP 13 @ 6"	H702155-13	Soil	10-Aug-17 14:13	16-Aug-17 08:59
SP 14 @ 6"	H702155-14	Soil	10-Aug-17 14:17	16-Aug-17 08:59
SP 15 @ 6"	H702155-15	Soil	10-Aug-17 14:19	16-Aug-17 08:59
SP 16 @ 6"	H702155-16	Soil	10-Aug-17 14:22	16-Aug-17 08:59
SP 17 @ 6"	H702155-17	Soil	10-Aug-17 14:25	16-Aug-17 08:59
SP 18 @ 6"	H702155-18	Soil	10-Aug-17 14:30	16-Aug-17 08:59
SP 1 @ 1'	H702155-19	Soil	14-Aug-17 08:00	16-Aug-17 08:59
SP 1 @ 1.5'	H702155-20	Soil	14-Aug-17 08:45	16-Aug-17 08:59
SP 3 @ 2.5'	H702155-21	Soil	14-Aug-17 08:25	16-Aug-17 08:59
SP 3 @ 4'	H702155-22	Soil	14-Aug-17 09:00	16-Aug-17 08:59
AH 1 @ 4.5'	H702155-23	Soil	14-Aug-17 10:27	16-Aug-17 08:59
AH 2 @ 4.5'	H702155-24	Soil	14-Aug-17 10:08	16-Aug-17 08:59
AH 3 @ 4.5'	H702155-25	Soil	14-Aug-17 12:05	16-Aug-17 08:59
AH 4 @ 4.5'	H702155-26	Soil	14-Aug-17 12:40	16-Aug-17 08:59
AH 5 @ 2.5'	H702155-27	Soil	14-Aug-17 12:55	16-Aug-17 08:59

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. 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: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

AH 5 @ 4.5'	H702155-28	Soil	14-Aug-17 13:00	16-Aug-17 08:59
AH 6 @ 2'	H702155-29	Soil	14-Aug-17 13:07	16-Aug-17 08:59
AH 6 @ 4'	H702155-30	Soil	14-Aug-17 13:13	16-Aug-17 08:59
AH 7 @ 2'	H702155-31	Soil	14-Aug-17 13:21	16-Aug-17 08:59
AH 8 @ 2'	H702155-32	Soil	14-Aug-17 13:34	16-Aug-17 08:59

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. 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: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 1 @ 6"**  
**H702155-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			84.9 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			90.3 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	327		100	mg/kg wet	100	B708207	JDA	29-Aug-17	EPA300.0	
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\*=Accredited Analyte

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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 2 @ 6"**  
**H702155-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			105 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			108 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	11900		250	mg/kg wet	250	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 3 @ 6"**  
**H702155-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			92.3 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			91.6 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	36700		1000	mg/kg wet	1000	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 4 @ 6"**  
**H702155-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			96.6 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			97.2 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	3490		200	mg/kg wet	200	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 5 @ 6"**  
**H702155-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>67.1</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>15.5</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			103 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			110 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	2580		200	mg/kg wet	200	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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P. O. BOX 2587  
HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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Reported:  
22-Jan-18 14:40

**SP 6 @ 6"**  
**H702155-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			105 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			106 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	10600		250	mg/kg wet	250	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 7 @ 6"**  
**H702155-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			107 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			108 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	17400		500	mg/kg wet	500	B708207	JDA	29-Aug-17	EPA300.0	
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P. O. BOX 2587  
HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 8 @ 6"**  
**H702155-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>986</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>7270</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>998</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			195 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			196 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

<b>Chloride</b>	<b>8470</b>		200	mg/kg wet	200	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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P. O. BOX 2587  
HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 9 @ 6"**  
**H702155-09 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10*</b>	<b>315</b>		50.0	mg/kg	5	7081809	MS	18-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>15900</b>		50.0	mg/kg	5	7081809	MS	18-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>2690</b>		50.0	mg/kg	5	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			177 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			353 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

<b>Chloride</b>	<b>9320</b>		200	mg/kg wet	200	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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P. O. BOX 2587  
HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 10 @ 6"**  
**H702155-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<b>24.4</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>1560</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>301</b>		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			109 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			131 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

<b>Chloride</b>	<b>12500</b>		500	mg/kg wet	500	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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Reported:  
22-Jan-18 14:40

**SP 11 @ 6"**  
**H702155-11 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
DRO >C10-C28*	2540		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
EXT DRO >C28-C36	567		10.0	mg/kg	1	7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctane			91.3 %	28.3-164		7081809	MS	18-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			145 %	34.7-157		7081809	MS	18-Aug-17	8015B	

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

Chloride	21300		500	mg/kg wet	500	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 12 @ 6"**  
**H702155-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>203</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>55.7</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			94.2 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			104 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	16400		500	mg/kg wet	500	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 13 @ 6"**  
**H702155-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			110 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			113 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	13300		500	mg/kg wet	500	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 14 @ 6"**  
**H702155-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10*</b>	<b>3750</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>39400</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>5790</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			320 %	28.3-164		7081810	MS	19-Aug-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			1050 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

<b>Chloride</b>	<b>4680</b>		200	mg/kg wet	200	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 15 @ 6"**  
**H702155-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10*</b>	<b>1530</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>33900</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>5160</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			268 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			858 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

<b>Chloride</b>	<b>1140</b>		50.0	mg/kg wet	50	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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P. O. BOX 2587  
HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 16 @ 6"**  
**H702155-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10*</b>	<b>1300</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>25800</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>4080</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			225 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			574 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

<b>Chloride</b>	<b>155</b>		10.0	mg/kg wet	10	B708207	JDA	29-Aug-17	EPA300.0	
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TRINITY OILFIELD SERVICES & RENTALS, LLC  
P. O. BOX 2587  
HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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Reported:  
22-Jan-18 14:40

**SP 17 @ 6"**  
**H702155-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-04**

<b>GRO C6-C10*</b>	<b>42.6</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>4300</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>916</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			99.2 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			171 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

<b>Chloride</b>	<b>11500</b>		250	mg/kg wet	250	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 18 @ 6"**  
**H702155-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID****S-06**

<b>GRO C6-C10*</b>	<b>232</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>13100</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>2540</b>		50.0	mg/kg	5	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			161 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			364 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

<b>Chloride</b>	<b>21600</b>		500	mg/kg wet	500	B708207	JDA	29-Aug-17	EPA300.0	
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HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 1 @ 1'**  
**H702155-19 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>103</b>		10.0	mg/kg wet	10	B708207	JDA	29-Aug-17	EPA300.0	
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P. O. BOX 2587  
HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 1 @ 1.5'**  
**H702155-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>10.4</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>27.7</b>		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			95.5 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			99.8 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	91.0		10.0	mg/kg wet	10	B708207	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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P. O. BOX 2587  
HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 3 @ 2.5'**  
**H702155-21 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			98.7 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			103 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	3300		250	mg/kg wet	250	B708225	JDA	28-Aug-17	EPA300.0	
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P. O. BOX 2587  
HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**SP 3 @ 4'**  
**H702155-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>1680</b>		100	mg/kg wet	100	B709073	JDA	13-Sep-17	EPA300.0	
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HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
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Reported:  
22-Jan-18 14:40

**AH 1 @ 4.5'**  
**H702155-23 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

Chloride	3320		100	mg/kg wet	100	B709073	JDA	13-Sep-17	EPA300.0	
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**Analytical Results For:**

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HOBBS NM, 88241

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**AH 2 @ 4.5'**  
**H702155-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>8920</b>		200	mg/kg wet	200	B709073	JDA	13-Sep-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: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**AH 3 @ 4.5'**  
**H702155-25 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>6830</b>		200	mg/kg wet	200	B709073	JDA	13-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**AH 4 @ 4.5'**  
**H702155-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>10900</b>		250	mg/kg wet	250	B709073	JDA	13-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**AH 5 @ 2.5'**  
**H702155-27 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			96.8 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			100 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	9200		250	mg/kg wet	250	B708225	JDA	28-Aug-17	EPA300.0	
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**Analytical Results For:**TRINITY OILFIELD SERVICES & RENTALS, LLC  
P. O. BOX 2587  
HOBBS NM, 88241Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONEReported:  
22-Jan-18 14:40**AH 5 @ 4.5'**  
**H702155-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

Chloride	679		50.0	mg/kg wet	50	B709073	JDA	13-Sep-17	EPA300.0	
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A handwritten signature in black ink, appearing to read "C. D. Keene".

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: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**AH 6@ 2'**  
**H702155-29 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			102 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			107 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	251		10.0	mg/kg wet	10	B708225	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**AH 6 @ 4'**  
**H702155-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>628</b>		50.0	mg/kg wet	50	B709073	JDA	13-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**AH 7 @ 2'**  
**H702155-31 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			106 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			105 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	19.7		10.0	mg/kg wet	10	B708225	JDA	29-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:40

**AH 8 @ 2'**  
**H702155-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			93.3 %	28.3-164		7081810	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			92.3 %	34.7-157		7081810	MS	19-Aug-17	8015B	

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

Chloride	11.2		10.0	mg/kg wet	10	B708225	JDA	28-Aug-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 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 7081809 - General Prep - Organics****Blank (7081809-BLK1)**

Prepared &amp; Analyzed: 18-Aug-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	46.9		mg/kg	50.0		93.7	28.3-164			
Surrogate: 1-Chlorooctadecane	50.5		mg/kg	50.0		101	34.7-157			

**LCS (7081809-BS1)**

Prepared &amp; Analyzed: 18-Aug-17

GRO C6-C10	212	10.0	mg/kg	200		106	76.6-119			
DRO >C10-C28	211	10.0	mg/kg	200		106	81.4-124			
Total TPH C6-C28	424	10.0	mg/kg	400		106	79.4-121			
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	28.3-164			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	34.7-157			

**LCS Dup (7081809-BS1)**

Prepared &amp; Analyzed: 18-Aug-17

GRO C6-C10	205	10.0	mg/kg	200		103	76.6-119	3.32	7.94	
DRO >C10-C28	205	10.0	mg/kg	200		102	81.4-124	3.25	9.83	
Total TPH C6-C28	410	10.0	mg/kg	400		102	79.4-121	3.28	8.57	
Surrogate: 1-Chlorooctane	51.3		mg/kg	50.0		103	28.3-164			
Surrogate: 1-Chlorooctadecane	54.0		mg/kg	50.0		108	34.7-157			

**Batch 7081810 - General Prep - Organics****Blank (7081810-BLK1)**

Prepared: 18-Aug-17 Analyzed: 19-Aug-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	48.2		mg/kg	50.0		96.4	28.3-164			

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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 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 7081810 - General Prep - Organics****Blank (7081810-BLK1)**

Prepared: 18-Aug-17 Analyzed: 19-Aug-17

Surrogate: 1-Chlorooctadecane	51.9		mg/kg	50.0		104	34.7-157			
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**LCS (7081810-BS1)**

Prepared: 18-Aug-17 Analyzed: 19-Aug-17

GRO C6-C10	221	10.0	mg/kg	200		111	76.6-119			
DRO >C10-C28	226	10.0	mg/kg	200		113	81.4-124			
Total TPH C6-C28	447	10.0	mg/kg	400		112	79.4-121			
Surrogate: 1-Chlorooctane	56.4		mg/kg	50.0		113	28.3-164			
Surrogate: 1-Chlorooctadecane	60.1		mg/kg	50.0		120	34.7-157			

**LCS Dup (7081810-BSD1)**

Prepared: 18-Aug-17 Analyzed: 19-Aug-17

GRO C6-C10	219	10.0	mg/kg	200		109	76.6-119	1.12	7.94	
DRO >C10-C28	212	10.0	mg/kg	200		106	81.4-124	6.16	9.83	
Total TPH C6-C28	431	10.0	mg/kg	400		108	79.4-121	3.64	8.57	
Surrogate: 1-Chlorooctane	55.0		mg/kg	50.0		110	28.3-164			
Surrogate: 1-Chlorooctadecane	59.1		mg/kg	50.0		118	34.7-157			

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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 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 B708207 - General Prep - Wet Chem****Blank (B708207-BLK1)**

Prepared: 24-Aug-17 Analyzed: 30-Aug-17

Chloride	ND	10.0	mg/kg wet							
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**LCS (B708207-BS1)**

Prepared: 24-Aug-17 Analyzed: 29-Aug-17

Chloride	247	10.0	mg/kg wet	250		98.7	85-115			
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**LCS Dup (B708207-BSD1)**

Prepared: 24-Aug-17 Analyzed: 29-Aug-17

Chloride	244	10.0	mg/kg wet	250		97.8	85-115	0.969	20	
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**Batch B708225 - General Prep - Wet Chem****Blank (B708225-BLK1)**

Prepared: 24-Aug-17 Analyzed: 28-Aug-17

Chloride	ND	10.0	mg/kg wet							
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**LCS (B708225-BS1)**

Prepared: 24-Aug-17 Analyzed: 28-Aug-17

Chloride	241	10.0	mg/kg wet	250		96.4	85-115			
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**LCS Dup (B708225-BSD1)**

Prepared: 24-Aug-17 Analyzed: 28-Aug-17

Chloride	241	10.0	mg/kg wet	250		96.5	85-115	0.0332	20	
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**Batch B709073 - General Prep - Wet Chem****Blank (B709073-BLK1)**

Prepared: 11-Sep-17 Analyzed: 13-Sep-17

Chloride	ND	10.0	mg/kg wet							
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**LCS (B709073-BS1)**

Prepared: 11-Sep-17 Analyzed: 13-Sep-17

Chloride	245	10.0	mg/kg wet	250		98.1	85-115			
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Cardinal Laboratories

\*=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: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 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 B709073 - General Prep - Wet Chem****LCS Dup (B709073-BSD1)**

Prepared: 11-Sep-17 Analyzed: 13-Sep-17

Chloride	243	10.0	mg/kg wet	250		97.3	85-115	0.856	20	
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---

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

---

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

---

Celey D. Keene, Lab Director/Quality Manager



## • CARDINAL LABORATORIES

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Page 1 of 4

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**BILL TO**

**ANALYSIS REQUEST**

Company Name: Trinity Oilfield Services & Rentals, LLC		P.O. #:	
Project Manager: Ben J. Argujio		Company:	Trinity
Address: P.O. Box 2587		Attn:	
City: Hobbs		State: NM	Zip: 88241
Phone #: (575)390-7208		Fax #:	
Project #:		Project Owner:	Cambrian Mgmt.
Project Name: <u>Clark-SWD</u>		State:	Zip:
Project Location: <u>DeLaure River 2</u>		Phone #:	
Sample Name: Duskie Bennett		Fax #:	

FOR LAB USE ONLY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Relinquished By: <u>Walter Bennett</u>	Date: <u>8/16/17</u>	Time: <u>0854</u>	Received By: <u>Goodi Henderson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Yes <input type="checkbox"/> No <input type="checkbox"/>	Add'l Phone #: _____
Relinquished By:	Date:	Time:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Yes <input type="checkbox"/> No <input type="checkbox"/>	Add'l Fax #: _____

Call for BTEX instructions.  
Please e-mail results to ben@trinityoilfieldservices.com

Delivered By: (Circle One)	Sample Condition	CHECKED BY: <u>(initials)</u>
Sampler - UPS - Bus - Other: <u>#75</u>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Corrected - 2.85c

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





## CARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 4

## BILL TO

## ANALYSIS REQUEST

Company Name: Trinity Oilfield Services & Rentals, LLC		P.O. #:
Project Manager: Ben J. Arguilo		Company: Trinity
Address: P.O. Box 2587		
City: Hobbs	State: NM Zip: 88241	Attn:
Phone #: (575)390-7208	Fax #:	Address:
Project #:	Project Owner: Cambrian Mgmt.	City:
Project Name: Clark SWD	State: Zip:	State:
Project Location: Lea Co., NM	Phone #:	Zip:
Sample Name: Duskie Bennett	Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH (8015M)						BTEX (8021B)						Chloride (300)					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :																				
H702155																													
21	SP3 @2.5'	G	1	X								X												X					
22	SP3 @4'	G	1	X								X												X					
23	AH 1 @4.5'	G	1	X								X												X					
24	AH 2 @4.5'	G	1	X								X												X					
25	AH 3 @4.5'	G	1	X								X												X					
26	AH 4 @4.5'	G	1	X								X												X					
27	AH 5 @2.5'	G	1	X								X												X					
28	AH 5 @4.5'	G	1	X								X												X					
29	AH 6 @2'	G	1	X								X												X					
30	AH 6 @4'	G	1	X								X												X					

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Relinquished By: Melanie Bennett Date: 8/16/17 Received By: John Henderson

Relinquished By: Melanie Bennett Date: 8/8/17 Received By: John Henderson

Delivered By: (Circle One) #75 Sample Condition: ☒ Cool ☒ Intact ☐ Yes ☐ No

Sampler - UPS - Bus - Other: #75 -3.16 ☐ No ☐ No

FORM-006  
Revision 1.0

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Please e-mail results to [ben@trinityoilfieldservices.com](mailto:ben@trinityoilfieldservices.com)

Call for BTEX instructions.

REMARKS: Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #:

Corrected - 2.85

Cl 300 added as per ben 9/8/17





**ARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240  
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Page 4 of 4

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

---

January 22, 2018

BEN ARGUIJO

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: DELAWARE RIVER 2

Enclosed are the results of analyses for samples received by the laboratory on 08/28/17 12:32.

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/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

Method EPA 552.2	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 written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1@6.5'	H702269-01	Soil	17-Aug-17 12:37	28-Aug-17 12:32
AH-1@8.5'	H702269-02	Soil	17-Aug-17 12:50	28-Aug-17 12:32
AH-1@10.5'	H702269-03	Soil	17-Aug-17 13:06	28-Aug-17 12:32
AH-1@12.5'	H702269-04	Soil	17-Aug-17 13:30	28-Aug-17 12:32
AH-5@7'	H702269-05	Soil	17-Aug-17 16:00	28-Aug-17 12:32
AH-6@6'	H702269-06	Soil	17-Aug-17 16:37	28-Aug-17 12:32
AH-6@10'	H702269-07	Soil	18-Aug-17 09:20	28-Aug-17 12:32
AH-6@11'	H702269-08	Soil	18-Aug-17 09:42	28-Aug-17 12:32

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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: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

**AH-1@6.5'**  
**H702269-01 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctane			105 %	28.3-164		7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			114 %	34.7-157		7082806	MS	29-Aug-17	8015B	

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

Chloride	877		20.0	mg/kg wet	20	B709023	JDA	07-Sep-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: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

**AH-1@8.5'**  
**H702269-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

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

<b>Chloride</b>	<b>215</b>		20.0	mg/kg wet	20	B709023	JDA	07-Sep-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: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

**AH-1@10.5'**  
**H702269-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>323</b>		20.0	mg/kg wet	20	B709023	JDA	07-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

**AH-1@12.5'**  
**H702269-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
<b>DRO &gt;C10-C28*</b>	<b>54.4</b>		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>27.3</b>		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctane			110 %	28.3-164		7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			120 %	34.7-157		7082806	MS	29-Aug-17	8015B	

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

Chloride	66.0		20.0	mg/kg wet	20	B709023	JDA	07-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

**AH-5@7'**  
**H702269-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctane			103 %	28.3-164		7082806	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			107 %	34.7-157		7082806	MS	29-Aug-17	8015B	

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

Chloride	90.8		10.0	mg/kg wet	10	B709023	JDA	07-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

**AH-6@6'**  
**H702269-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctane			87.7 %	28.3-164		7082911	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			92.8 %	34.7-157		7082911	MS	29-Aug-17	8015B	

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

Chloride	686		20.0	mg/kg wet	20	B709023	JDA	08-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

**AH-6@10'**  
**H702269-07 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories****Soluble (DI Water Extraction)**

<b>Chloride</b>	<b>206</b>		10.0	mg/kg wet	10	B709023	JDA	07-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

**AH-6@11'**  
**H702269-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Cardinal Laboratories****Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7082911	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctane			93.3 %	28.3-164		7082911	MS	29-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			98.8 %	34.7-157		7082911	MS	29-Aug-17	8015B	

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

Chloride	93.1		20.0	mg/kg wet	20	B709023	JDA	07-Sep-17	EPA300.0	
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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

**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 7082806 - General Prep - Organics****Blank (7082806-BLK1)**

Prepared: 28-Aug-17 Analyzed: 29-Aug-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	45.7		mg/kg	50.0		91.4	28.3-164			
Surrogate: 1-Chlorooctadecane	51.3		mg/kg	50.0		103	34.7-157			

**LCS (7082806-BS1)**

Prepared: 28-Aug-17 Analyzed: 29-Aug-17

GRO C6-C10	198	10.0	mg/kg	200		99.0	76.6-119			
DRO >C10-C28	192	10.0	mg/kg	200		96.0	81.4-124			
Total TPH C6-C28	390	10.0	mg/kg	400		97.5	79.4-121			
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0		103	28.3-164			
Surrogate: 1-Chlorooctadecane	50.6		mg/kg	50.0		101	34.7-157			

**LCS Dup (7082806-BSD1)**

Prepared: 28-Aug-17 Analyzed: 29-Aug-17

GRO C6-C10	207	10.0	mg/kg	200		103	76.6-119	4.24	7.94	
DRO >C10-C28	205	10.0	mg/kg	200		103	81.4-124	6.51	9.83	
Total TPH C6-C28	412	10.0	mg/kg	400		103	79.4-121	5.36	8.57	
Surrogate: 1-Chlorooctane	53.7		mg/kg	50.0		107	28.3-164			
Surrogate: 1-Chlorooctadecane	55.2		mg/kg	50.0		110	34.7-157			

**Batch 7082911 - General Prep - Organics****Blank (7082911-BLK1)**

Prepared &amp; Analyzed: 29-Aug-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	43.7		mg/kg	50.0		87.5	28.3-164			

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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

**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 7082911 - General Prep - Organics****Blank (7082911-BLK1)**

Prepared &amp; Analyzed: 29-Aug-17

Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0		97.1	34.7-157			
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**LCS (7082911-BS1)**

Prepared &amp; Analyzed: 29-Aug-17

GRO C6-C10	182	10.0	mg/kg	200		91.1	76.6-119			
DRO >C10-C28	201	10.0	mg/kg	200		101	81.4-124			
Total TPH C6-C28	384	10.0	mg/kg	400		95.9	79.4-121			
Surrogate: 1-Chlorooctane	51.2		mg/kg	50.0		102	28.3-164			
Surrogate: 1-Chlorooctadecane	56.6		mg/kg	50.0		113	34.7-157			

**LCS Dup (7082911-BSD1)**

Prepared &amp; Analyzed: 29-Aug-17

GRO C6-C10	179	10.0	mg/kg	200		89.7	76.6-119	1.64	7.94	
DRO >C10-C28	202	10.0	mg/kg	200		101	81.4-124	0.442	9.83	
Total TPH C6-C28	381	10.0	mg/kg	400		95.4	79.4-121	0.542	8.57	
Surrogate: 1-Chlorooctane	50.6		mg/kg	50.0		101	28.3-164			
Surrogate: 1-Chlorooctadecane	57.3		mg/kg	50.0		115	34.7-157			

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**Analytical Results For:**

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

Project: DELAWARE RIVER 2  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
22-Jan-18 14:32

**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 B709023 - General Prep - Wet Chem****Blank (B709023-BLK1)**

Prepared: 05-Sep-17 Analyzed: 08-Sep-17

Chloride	ND	10.0	mg/kg wet							
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**LCS (B709023-BS1)**

Prepared: 05-Sep-17 Analyzed: 07-Sep-17

Chloride	240	10.0	mg/kg wet	250		95.9	85-115			
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**LCS Dup (B709023-BSD1)**

Prepared: 05-Sep-17 Analyzed: 07-Sep-17

Chloride	240	10.0	mg/kg wet	250		95.8	85-115	0.104	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 cursive script, appearing to read "Celey D. Keene", written in black ink.

---

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 4 of 4

Company Name: Trinity Oilfield Services & Rentals, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Ben J. Arguilo		Company: Trinity					
Address: P.O. Box 2587		Attn:					
City: Hobbs		Address					
Phone #: (575)390-7208		Fax #:					
Project #:		City:					
Project Name: Clark SWB Delaware River 2 *		State: Zip:					
Project Location: Lea Co., NM		Phone #:					
Sampler Name: Duskie Bennett		Fax #:					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	TPH (8015M)	BTEX (8021B)	Chloride (300)	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						ACID/BASE:
1	AH-1 @ 6.5'	G 1	X							8/17/17	1237	X			
2	AH-1 @ 8.5'	G 1	X							8/17/17	1250		X		
3	AH-1 @ 10.5'	G 1	X							8/17/17	1306		X		
4	AH-1 @ 12.5'	G 1	X							8/17/17	1330	X			
5	AH-5 @ 7'	G 1	X							8/17/17	1600	X			
6	AH-6 @ 6'	G 1	X							8/17/17	1637	X			
7	AH-6 @ 10'	G 1	X							8/18/17	0920		X		
8	AH-6 @ 12.4'	G 1	X							8/18/17	0942	X			

Relinquished By: <i>Ben J. Arguilo</i>	Date: <i>8/28/17</i>	Received By: <i>Hobbs</i>
Relinquished By:	Date:	Received By:
Delivered By: (Circle One) <i>20C/2.25C</i>	Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>HC</i>
Sampler - UPS - Bus - Other:		

Please e-mail results to [ben@trinityoilfieldservices.com](mailto:ben@trinityoilfieldservices.com)

\* Revised as per den. 11/17/18 ck

Call for BTEX instructions.

REMARKS:

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

FORM-006  
Revision 1.0

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

Corrected +.25C

**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 111635

**CONDITIONS**

Operator: Permian Water Solutions, LLC PO Box 2106 Midland, TX 79702	OGRID: 373626
	Action Number: 111635
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
bhall	In addition to the delineation points outlined in this report, the area north/northeast of the demarcated area must be both horizontally and vertically delineated. The area that must be included is marked in red on Figure 3.	10/17/2022
bhall	The values for determination of horizontal impact are derived by either approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less. This is especially important for "on-pad" releases to ensure the release did not extend to the "off-pad"/pasture area. A visual footprint on the surface is not sufficient to assess the horizontal extent of the release. Laboratory data must be provided as evidence of delineation efforts. Any sample exceeding approved "background" values or Table I Closure Criteria for releases where groundwater is at a depth of 50 feet or less requires additional samples for horizontal delineation.	10/17/2022
bhall	2RP-4311 closed. Please refer to incident #NAB1721451368 for all future communications.	10/17/2022
bhall	Please submit a complete remediation or closure report by 1/20/2023.	10/17/2022