

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

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

### Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

### Nature and Volume of Release

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

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

Cause of Release

State of New Mexico  
Oil Conservation Division

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

**Initial Response**

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

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

Incident ID	
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Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <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

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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Jenni Usher Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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



Incident ID	
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## Remediation Plan

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

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

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

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

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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Jenni Usher Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

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

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

Incident ID	
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## Closure

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

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

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

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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: \_\_\_\_\_

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Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
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Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

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email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
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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.*

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- ☐ Topographic/Aerial maps
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State of New Mexico  
Oil Conservation Division

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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Jenni Usher Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

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## Remediation Plan

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

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

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- ☐ Extents of contamination must be fully delineated.
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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Jenni Usher Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

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

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

Incident ID	
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## Closure

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

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

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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: \_\_\_\_\_



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## Remediation Plan

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- ☐ Detailed description of proposed remediation technique
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Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Jenni Usher Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral ApprovedSignature: Robert Hamlet Date: \_\_\_\_\_

## SITE INFORMATION

### Report Type: Work Plan

#### General Site Information:

Site:	Dorstate SWD					
Company:	Permian Water Solutions					
Section, Township and Range	Unit H	Sec. 27	T 25S	R 28E		
Lease Number:	API No. 30-015-23728					
County:	Eddy					
GPS:	32.102684			-104.068565		
Surface Owner:	State					
Directions:	From the intersection of HWY 285 and Whites City Rd in rural Eddy County, travel north on HWY 285 for 2.8 miles, turn east onto lease road and continue for 0.20 miles to location on north side of lease road.					
Release Data:	2RP-4364					
Date Released:	8/23/2017					
Type Release:	Produced Water					
Source of Contamination:	Sump Overflow					
Fluid Released:	25 bbls					
Fluids Recovered:	0 bbls					

#### Official Communication:

<b>Name:</b>	James Corbitt		Clair Gonzales
<b>Company:</b>	Permian Water Solutions		Tetra Tech
<b>Address:</b>	415 W. Wall St.		901 West Wall Street
	Suite 320		Suite 100
<b>City:</b>	Midland, TX 79701		Midland, Texas
<b>Phone number:</b>	(432) 305-4124		(432) 687-8110
<b>Fax:</b>			
<b>Email:</b>	<a href="mailto:james@permianws.com">james@permianws.com</a>		<a href="mailto:Clair.Gonzales@tetrattech.com">Clair.Gonzales@tetrattech.com</a>

#### Site Characterization

<b>Depth to Groundwater:</b>	Less than 50'
<b>Karst Potential:</b>	Medium

#### Recommended Remedial Action Levels (RRALs)

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



November 12, 2019

New Mexico State Land Office  
310 Old Santa Fe Trail  
P.O. Box 1148  
Santa Fe, New Mexico 87504

**Re: Site Characterization Report for the Permian Water Solutions, LLC., Dorstate SWD, Unit H, Section 27, Township 25 South, Range 28 East, Eddy County, New Mexico.**

Tetra Tech, Inc. (Tetra Tech) was contacted by Permian Water Solutions, LLC. (Permian Water Solutions) to assess the impacted areas at the Dorstate SWD, Unit H, Section 27, Township 25 South, Range 28 East, Eddy County, New Mexico. The site coordinates are 32.102684°, -104.068565°. The site location is shown on Figures 1 and 2.

## Background

According to the State of New Mexico C-141 Initial Report, submitted by Cambrian Management, LTD., the release was discovered on August 23, 2017, and released approximately 25 barrels of produced water due to overflowing sumps. None of the fluids were recovered. The initial C-141 Forms are included in Appendix A.

Basin Environmental Service Technologies (Basin Environmental) submitted a Corrective Action Plan dated August 28, 2018, which detailed sampling activities performed at the site. A copy of the Corrective Action Plan, as well as the data obtained is included in Appendix D.

## Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The site is located in a medium karst potential area. The nearest well is listed on the New Mexico Office of the State Engineer's website in Section 26, approximately 0.70 miles east-northeast of the site and has a reported depth to groundwater of 40' below ground surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is less than 50' below surface. The groundwater data is shown in Appendix B.

## Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases,

Tetra Tech

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**TETRA TECH**

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. A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances. The proposed RRAL for benzene was determined to be 10 milligrams per kilogram (mg/kg) and 50 mg/kg for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO + DRO + MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

## **Soil Assessment and Analytical Results**

### Initial Assessment

Based on the previous sampling data, Tetra Tech personnel were onsite between May 14<sup>th</sup> and May 17<sup>th</sup>, 2019, in order to vertically define the impacts. A total of twenty (20) sample points (SP-1 through SP-4 and SP-6 through SP-21) were installed using a truck mounted air rotary rig to total depths ranging from 9'-10' and 59'-60' below surface. A sample point (SP-5) was originally planned to be installed in the area nearest to the wellhead, however due to numerous underground lines in the area, this sample point could not be safely installed. Additionally, one background bore hole was installed to a total depth of 39'-40' below surface to evaluate the native soils. Selected soil samples were collected and submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. The drilling logs for the sample points are included in Appendix C. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix E. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

Referring to Table 1, none of the samples analyzed showed benzene or total BTEX concentrations above the RRALs. Additionally, sample points SP-1, SP-2, SP-6, SP-7, SP-8, SP-9, SP-17, SP-18, SP-19, SP-20, and SP-21 did not show any TPH concentrations above the RRALs. However, sample points SP-3, SP-4, SP-10, SP-11, SP-12, SP-13, SP-14, and SP-16 showed elevated TPH concentrations in the soils which declined with depth to below the 100 mg/kg threshold at depths ranging from 2'-3' and 34'-35' below surface.

Sample points SP-1, SP-3, SP-6, SP-7, SP-14, SP-15, SP-16, SP-17, SP-18, SP-19, and SP-20 showed chloride concentrations above the 600 mg/kg threshold. However, the chloride concentrations declined with depth and were vertically defined at depths ranging from 6'-7' and 39'-30' below surface. However, sample points SP-2, SP-4, SP-8, SP-9, SP-10, SP-11, SP-12, SP-13, and SP-21 were not vertically delineated for chlorides and showed bottom hole concentrations ranging from 1,390 mg/kg to 6,960 mg/kg.

The background sample point, BG-1, showed a chloride high concentration of 672 mg/kg at 4'-5'.

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### Additional Assessment

As requested by NMSLO, Tetra Tech personnel returned to the site between October 23<sup>rd</sup> and October 25<sup>th</sup>, 2019 in order to horizontally define the release area as well as to install boreholes inside the bermed facility. A total of twenty-two (22) horizontal samples (H-1 through H-22) were installed around the perimeter of the release to total depths ranging from 0-6" and 2' below surface. Three boreholes (BH-22, BH-23, and BH-24) were installed using a truck mounted air rotary drilling rig to total depths of 29'-30' below surface inside the bermed facility. Additional sample points could not be installed due to the steep incline of the berm and safety concerns for onsite staff. All collected samples were submitted to the laboratory for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The results of the sampling are summarized in Table 1. The sample locations are shown on Figure 3.

### *Bermed Facility*

Referring to Table 1, none of the samples collected showed benzene or total BTEX concentrations above the RRAL's. However, the areas of BH-22, BH-23, and BH-24 showed elevated TPH concentrations to the soils. The area of BH-22 showed a TPH high concentration of 15,800 mg/kg at 0-1' which steadily declined with depth to 87.9 mg/kg at 19'-20' below surface. The areas of BH-23 and BH-24 showed TPH high concentrations of 2,680 mg/kg and 8,230 mg/kg, respectively at 0-1', which then declined with depth to <50.0 mg/kg (6'-7') and 94.5 mg/kg (9-10'), respectively.

Additionally, the areas of BH-22, BH-23, and BH-24 showed minimal chloride concentrations in the surficial soils, however the chloride concentrations increased with depth and showed bottom hole concentrations of 1,160 mg/kg, 2,640 mg/kg, and 2,470 mg/kg, respectively.

### *Horizontal Sampling*

Referring to Table 1, none of the samples collected showed benzene or total BTEX concentrations above the RRALs. However, the areas of H-2 and H-12 showed TPH concentrations above the RRAL at 0-1' and 1'-2' with concentrations of 169 mg/kg and 141 mg/kg, respectively. Based on this data, Tetra Tech personnel returned to the site and installed additional horizontal sample points (H-2 (1) and H-12 (1)) in order to horizontally define the release. The samples collected at H-2 (1) and H-12(1) did not show any benzene, total BTEX, TPH, or chloride concentrations above the RRALs. None of the remaining horizontal sample points showed any TPH concentrations above the RRALs. Additionally, all of the samples collected showed chloride concentrations below the background concentration of 672 mg/kg; with the exception of H-8 at 1-2' with a concentration of 855 mg/kg and H-19 at 1-2' with a concentration of 847 mg/kg.

### **Work Plan**

Based on the laboratory data, Permian Water Solutions proposes to excavate the areas as shown on Figure 4 and highlighted (green) on Table 1. The areas of sample points SP-1, SP-2, SP-4, SP-7 through SP-14 and SP-19 through SP-21 will be excavated to approximately 4.0' below surface. The areas of SP-3, SP-15, SP-17, and SP-24 will be excavated to approximately 6-7' below surface, the areas of SP-12 and BH-22 will be excavated to approximately 15' below surface, and the areas of SP-6, H-2, and SP-16 will be excavated to approximately 1'-2' below



surface. Additionally, the areas of SP-1, SP-2, SP-4, SP-6, SP-8 through SP-14, SP-15, SP-16, and SP-21 through SP-24 will be capped with a 20-mil liner at 4.0' below surface in order to prevent further vertical migration of the deeper impact.

Once excavated, composite bottom hole and sidewall confirmation samples will be collected every 200 square feet, to be representative of the area and to confirm proper removal of the impacted soils. The areas will then be backfilled with clean material to surface grade. Permian Water Solutions estimates approximately 36,600 cubic yards will be excavated, and the remediation to be implemented 90 days after the work plan is approved by both the NMSLO and NMOCD and all remediation access permits are obtained.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safety concerns for onsite personnel. As such, Permian Water Solutions will excavate the impacted soils to the maximum extent practicable.

#### Monitor Wells

In addition to the proposed soil remediation activities, Permian Water Solutions proposes to install three monitor wells on the pad area in order to evaluate the groundwater conditions in the area. Tetra Tech will supervise the installation of the monitor wells to a total depth of approximately 60' below surface using an air rotary rig. The monitor well will be constructed of 2-inch diameter, screw threaded, schedule 40 PVC casing and 0.020-inch factory slotted screen. The well screens, approximately twenty (20) feet in length, will be installed with approximately 15.0' of screen into the groundwater and 5.0' above the groundwater. The well screens will be filter packed with graded (20-40) silica sand, which will be placed in the annular space between the borehole wall and screen to a depth of approximately two (2) feet above the screen.

Once completed, the monitor wells will be properly developed, and all of the fluids will be contained in drums for proper disposal. Additionally, the wells will be surveyed. At the time of sampling, the well caps will be opened and water level measurements will be collected from the top of the casing. The depth to water measurements will be recorded to the nearest 0.01 foot. Approximately three (3) casing volumes of water will be purged from each well using a dedicated bailer and disposable line. All water generated for the purging will be contained in drums for proper disposal. The proposed locations of the monitor wells are shown on Figure 5.

The groundwater samples will be placed into labeled and preserved containers provided by the laboratory. They will then be analyzed for chlorides by EPA method 300.0, TPH by method 8015 modified, and BTEX by EPA Method 8021B. Based on the results of the initial sampling event, a groundwater monitoring plan will be submitted to the NMOCD and NMSLO for approval.



## Conclusion

Once the soil remediation activities are completed, a soils closure report and a groundwater monitoring report will be prepared for NMOCD and NMSLO approval. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 682-4559.

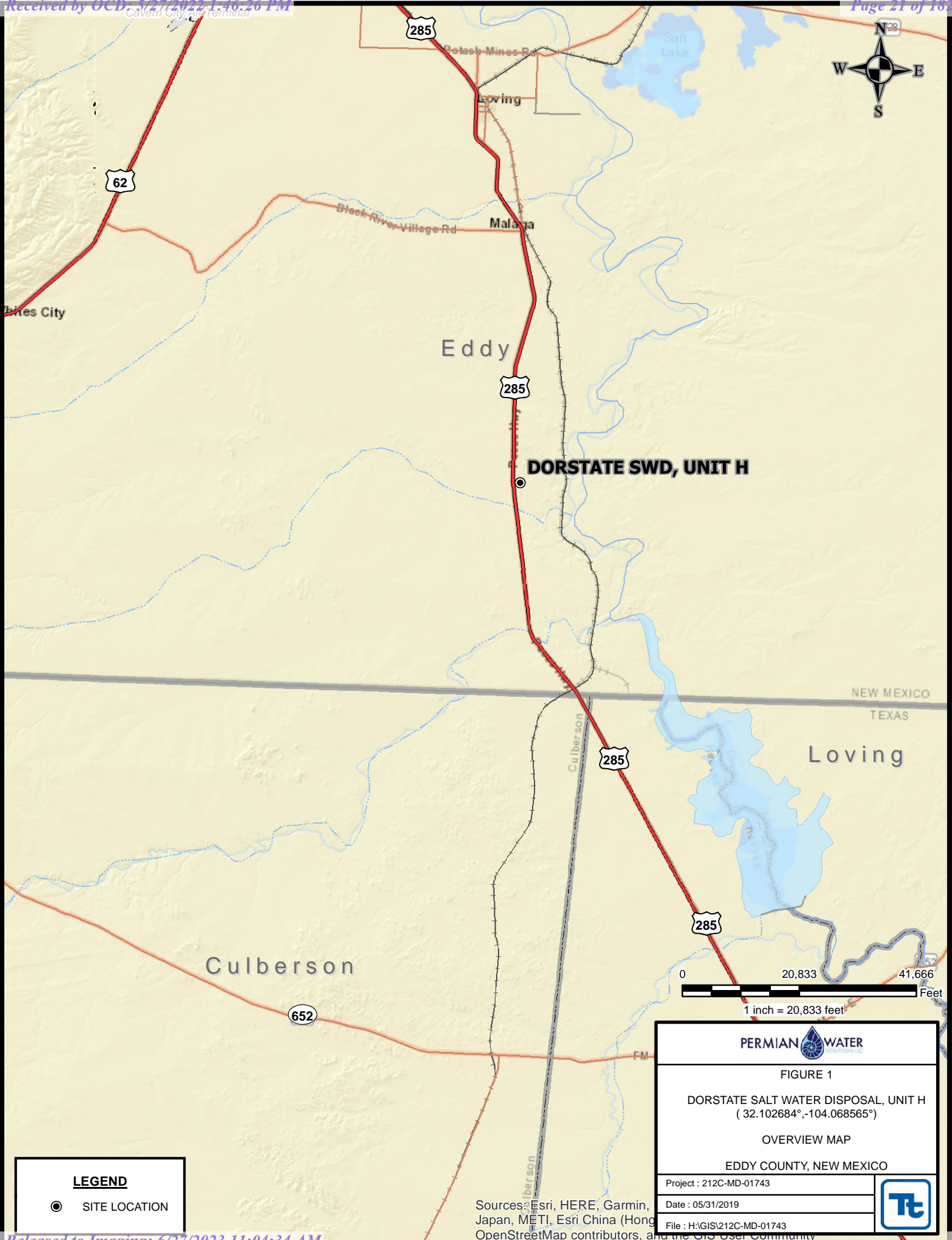
Respectfully submitted,  
TETRA TECH

A handwritten signature in blue ink that reads 'Clair Gonzales'.

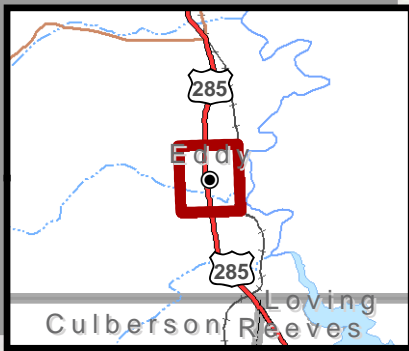
Clair Gonzales, P.G.,  
Project Manager

## Figures

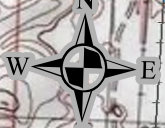
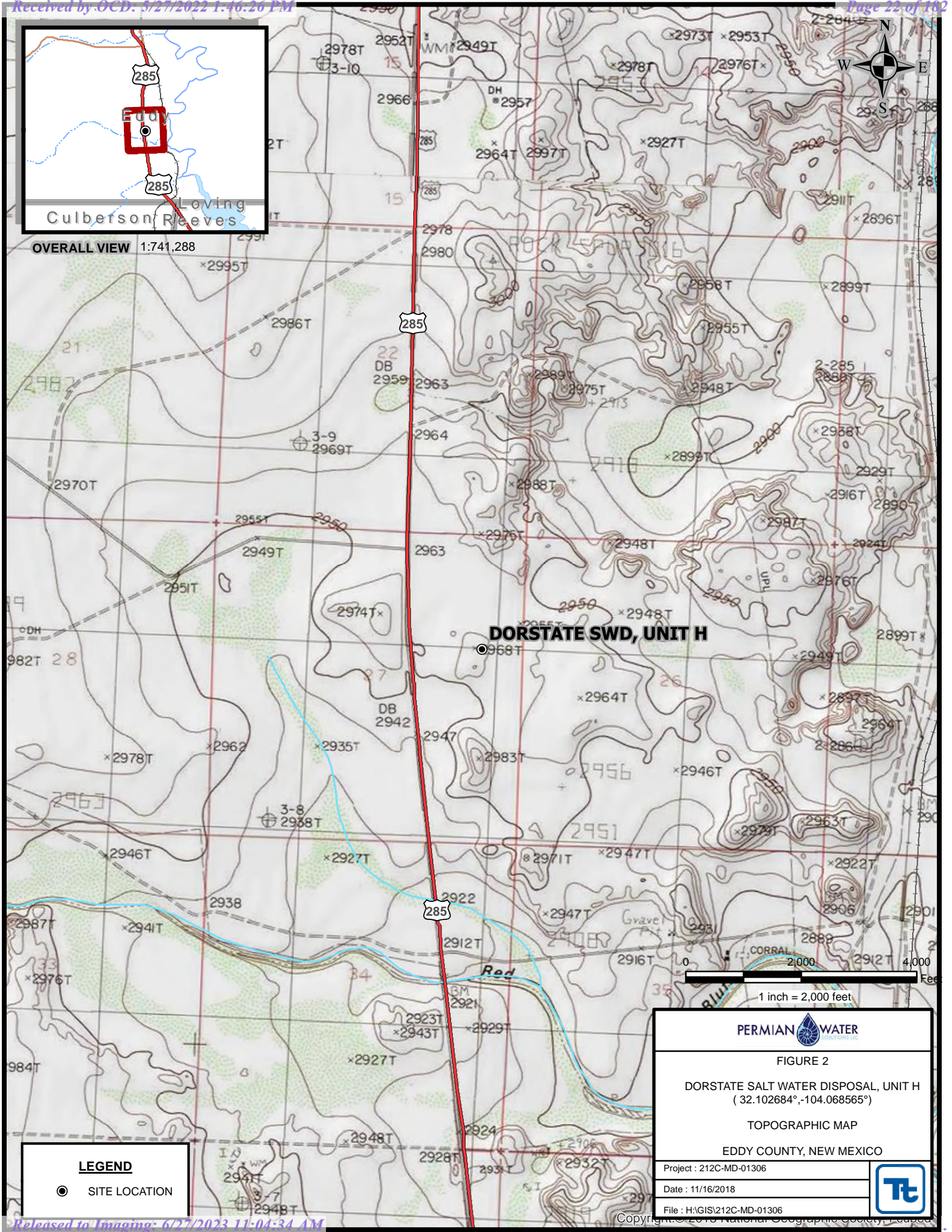








OVERALL VIEW 1:741,288



1 inch = 2,000 feet



FIGURE 2

DORSTATE SALT WATER DISPOSAL, UNIT H  
(32.102684°,-104.068565°)

TOPOGRAPHIC MAP

EDDY COUNTY, NEW MEXICO

Project : 212C-MD-01306

Date : 11/16/2018

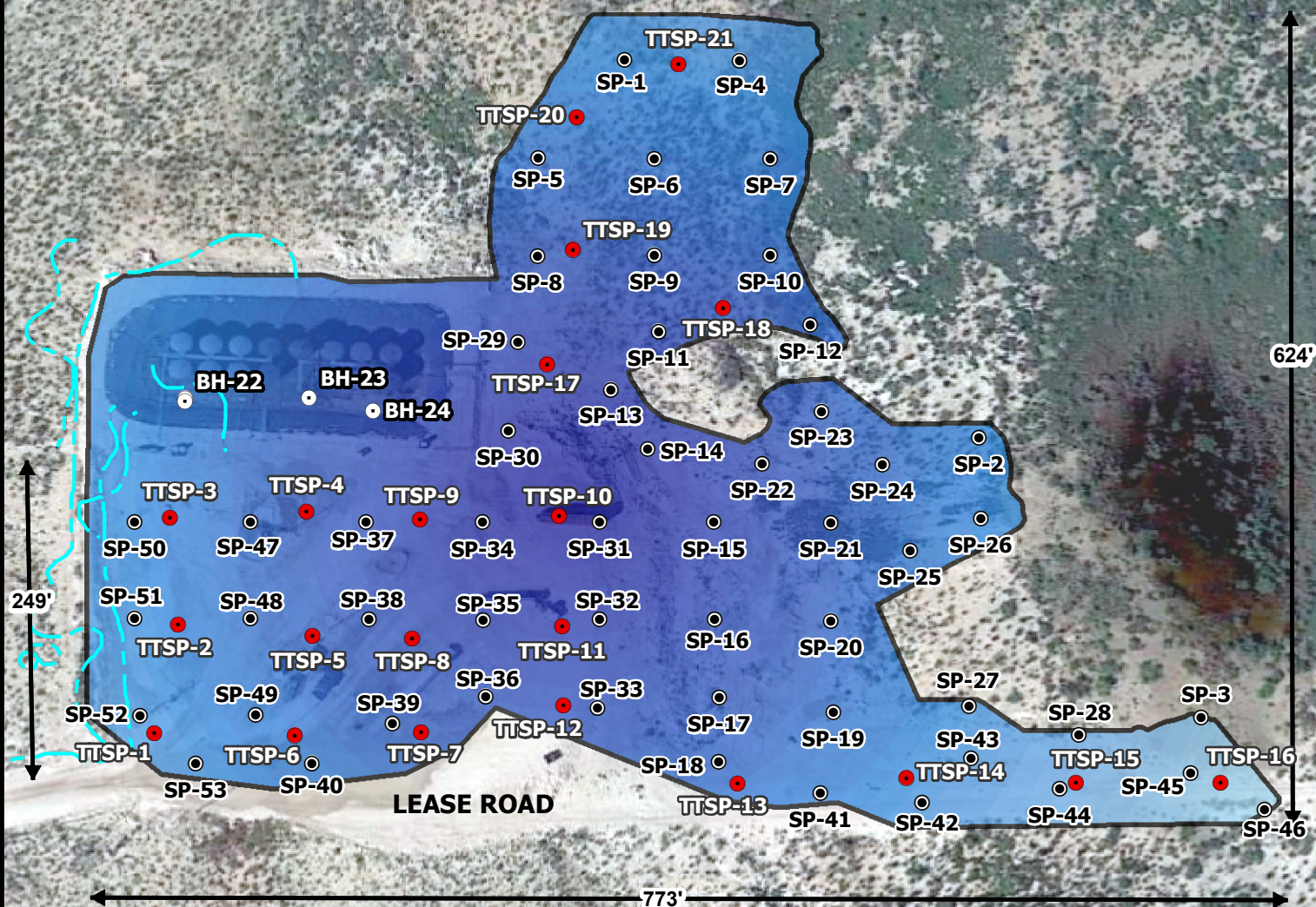
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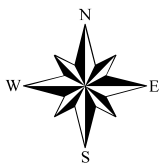
**LEGEND**

● SITE LOCATION





- BOREHOLE SAMPLE POINT LOCATIONS
- TETRATTECH SAMPLE LOCATIONS
- ⊙ BASIN ENVIROMENTAL SAMPLE LOCATIONS
- FLOWLINES
- AFFECTED SPILL AREA



0 65 130  
Approximate Scale in Feet

#### SPILL ASSESSMENT MAP

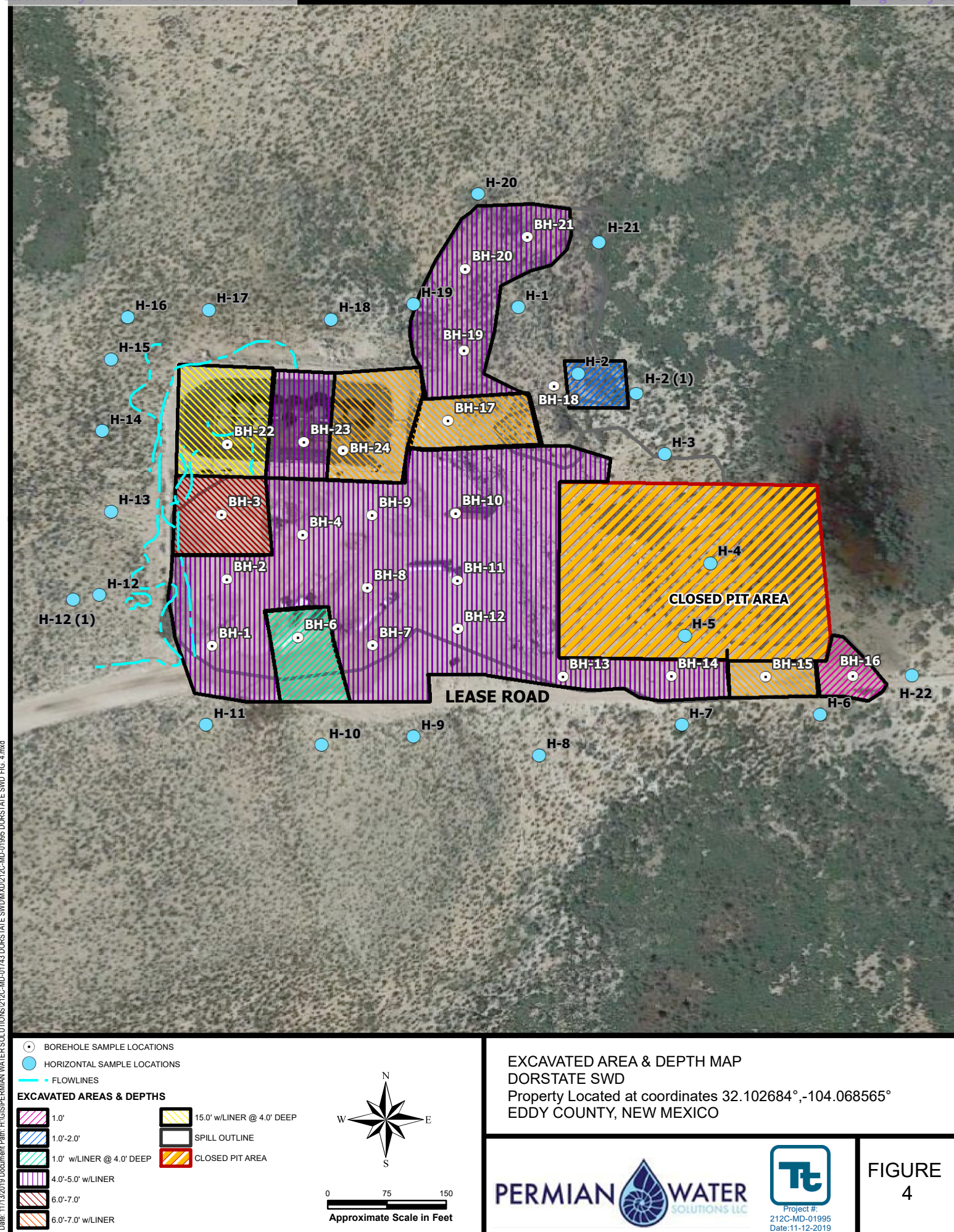
DORSTATE SWD

Property Located at coordinates 32.102684°,-104.068565°  
EDDY COUNTY, NEW MEXICO

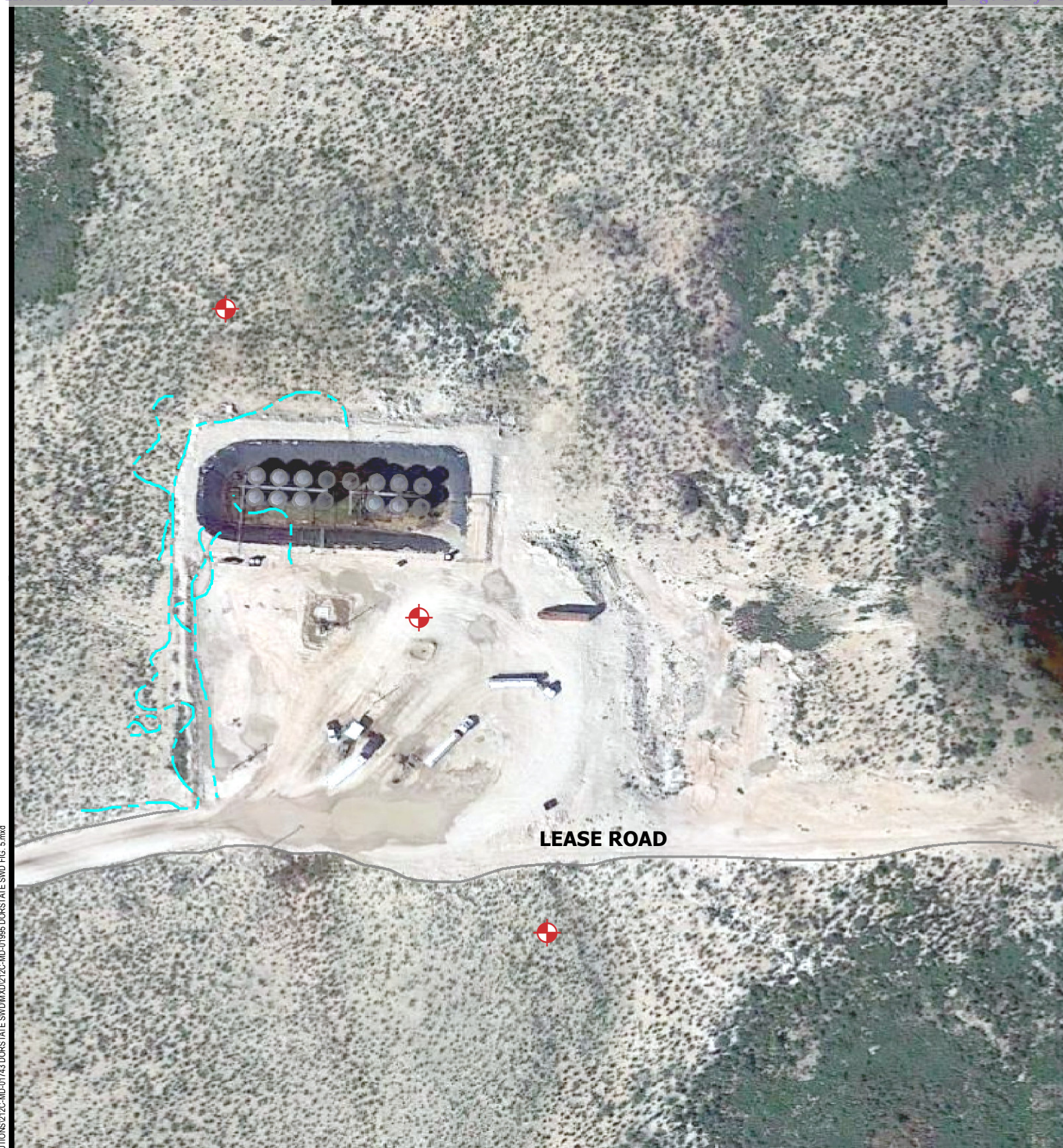



FIGURE  
3



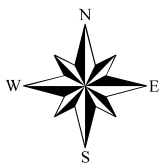






 PROPOSED MONITORING WELLS

 FLOWLINES



0 65 130  
Approximate Scale in Feet

# PROPOSED MONITORING WELL LOCATION MAP DORSTATE SWD

Property Located at coordinates 32.102684°,-104.068565°  
EDDY COUNTY, NEW MEXICO



FIGURE  
5



## Tables

**Table 1**  
**Permian Water Solutions**  
**Dorstate SWD**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
SP-1	5/4/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,360
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,640
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	1,920
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	1,200
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	1,140
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	672
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	480
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	400
	"	29-30	-	X		-	-	-	-	-	-	-	-	-	352
	"	34-35	-	X		-	-	-	-	-	-	-	-	-	304
SP-2	5/14/2019	0-1	-	X		<10.0	14.8	<10.0	14.8	<0.050	<0.050	<0.050	<0.150	<0.300	7,520
	"	2-3	-	X		<10.0	51.5	15.6	67.1	<0.050	<0.050	<0.050	<0.150	<0.300	4,720
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	2,160
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	624
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	1,020
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	2,680
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	3,360
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	3,000
	"	29-30	-	X		-	-	-	-	-	-	-	-	-	3,800
	"	34-35	-	X		-	-	-	-	-	-	-	-	-	1,630
	"	39-40	-	X		-	-	-	-	-	-	-	-	-	2,240
	"	44-45	-	X		-	-	-	-	-	-	-	-	-	2,400
	"	49-50	-	X		-	-	-	-	-	-	-	-	-	1,620
	"	54-55	-	X		-	-	-	-	-	-	-	-	-	1,010
	"	59-60	-	X		-	-	-	-	-	-	-	-	-	1,390
SP-3	5/14/2019	0-1	-	X		30.9	1,940	358	2,329	<0.050	<0.050	<0.050	<0.150	<0.300	3,360
	"	2-3	-	X		669	9,200	1,120	10,989	<0.050	<0.050	<0.050	<0.150	<0.300	1,860
	"	4-5	-	X		115	2,470	264.0	2,849	-	-	-	-	-	1,490
	"	6-7	-	X		<10.0	703	34.2	737	-	-	-	-	-	1,120
	"	9-10	-	X		<10.0	99.8	<10.0	99.8	-	-	-	-	-	624
	"	14-15	-	X		<10.0	35.7	<10.0	35.7	-	-	-	-	-	480

**Table 1**  
**Permian Water Solutions**  
**Dorstate SWD**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
SP-4	5/14/2019	0-1	-	X		<10.0	647	397	1,044	<0.050	<0.050	<0.050	<0.150	<0.300	11,300
	"	2-3	-	X		<10.0	80.1	50.0	130	<0.050	<0.050	<0.050	<0.150	<0.300	5,440
	"	4-5	-	X		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	5,280
	"	6-7	-	X		<10.0	23.6	<10.0	23.6	-	-	-	-	-	3,680
	"	9-10	-	X		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	1,810
	"	14-15	-	X		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	1,150
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	1,420
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	1,760
	"	29-30	-	X		-	-	-	-	-	-	-	-	-	2,080
	"	34-35	-	X		-	-	-	-	-	-	-	-	-	736
	"	39-40	-	X		-	-	-	-	-	-	-	-	-	1,120
	"	44-45	-	X		-	-	-	-	-	-	-	-	-	544
	"	49-50	-	X		-	-	-	-	-	-	-	-	-	1,630
SP-6	5/15/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,380
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	288
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	272
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	1,470
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	1,330
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	352
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	416
	"	29-30	-	X		-	-	-	-	-	-	-	-	-	688
	"	34-35	-	X		-	-	-	-	-	-	-	-	-	496
	"	39-40	-	X		-	-	-	-	-	-	-	-	-	208
	"	44-45	-	X		-	-	-	-	-	-	-	-	-	112
SP-7	5/15/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,920
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,680
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	1,840
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	960
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	976
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	672
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	528
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	352
	"	29-30	-	X		-	-	-	-	-	-	-	-	-	512



**Table 1**  
**Permian Water Solutions**  
**Dorstate SWD**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
SP-8	5/15/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,040
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,280
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	1,650
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	864
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	1,880
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	1,020
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	3,160
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	3,040
	"	29-30	-	X		-	-	-	-	-	-	-	-	-	4,480
	"	34-35	-	X		-	-	-	-	-	-	-	-	-	3,720
	"	39-40	-	X		-	-	-	-	-	-	-	-	-	5,360
	"	44-45	-	X		-	-	-	-	-	-	-	-	-	4,560
	"	49-50	-	X		-	-	-	-	-	-	-	-	-	5,840
SP-9	5/15/2019	0-1	-	X		<10.0	59.2	19.8	79.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,600
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,280
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	2,680
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	896
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	1,220
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	1,420
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	2,600
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	3,440
	"	29-30	-	X		-	-	-	-	-	-	-	-	-	3,040
	"	34-35	-	X		-	-	-	-	-	-	-	-	-	4,120
	"	39-40	-	X		-	-	-	-	-	-	-	-	-	3,520
SP-10	5/17/2019	0-1	-	X		<10.0	1,320	1,790	3,110	<0.050	<0.050	<0.050	<0.150	<0.300	4,000
	"	2-3	-	X		<10.0	26.2	19.3	45.5	<0.050	<0.050	<0.050	<0.150	<0.300	3,120
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	4,160
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	1,760
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	2,800
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	3,600
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	2,920
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	3,080
	"	29-30	-	X		-	-	-	-	-	-	-	-	-	4,240
	"	34-35	-	X		-	-	-	-	-	-	-	-	-	4,640
	"	39-40	-	X		-	-	-	-	-	-	-	-	-	4,880

**Table 1**  
**Permian Water Solutions**  
**Dorstate SWD**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
SP-11	5/17/2019	0-1	-	X		<10.0	120	44.9	165	<0.050	<0.050	<0.050	<0.150	<0.300	1,760
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	400
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	1,070
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	1,700
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	3,600
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	6,000
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	7,360
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	5,760
	"	29-30	-	X		-	-	-	-	-	-	-	-	-	6,800
	"	34-35	-	X		-	-	-	-	-	-	-	-	-	5,730
	"	39-40	-	X		-	-	-	-	-	-	-	-	-	5,730
	"	44-45	-	X		-	-	-	-	-	-	-	-	-	6,960
SP-12	5/17/2019	0-1	-	X		<10.0	417	124	541	<0.050	<0.050	<0.050	<0.150	<0.300	4,960
	"	2-3	-	X		240	6,620	1,960	8,820	<0.050	0.229	1.29	0.326	1.85	3,320
	"	4-5	-	X		2,360	18,500	2,730	23,590	-	-	-	-	-	8,800
	"	6-7	-	X		112	2,400	479	2,991	-	-	-	-	-	2,520
	"	9-10	-	X		147	2,940	251	3,338	-	-	-	-	-	3,840
	"	14-15	-	X		446	5,640	1,170	7,256	-	-	-	-	-	5,520
	"	19-20	-	X		<10.0	1,250	212	1,462	<0.050	<0.050	<0.050	0.212	<0.300	6,320
	"	24-25	-	X		<10.0	262	<10.0	262	<0.050	<0.050	<0.050	<0.150	<0.300	7,520
	"	29-30	-	X		<10.0	180	<10.0	180	<0.050	<0.050	<0.050	<0.150	<0.300	7,200
	"	34-35	-	X		<10.0	293	<10.0	293	<0.050	<0.050	<0.050	<0.150	<0.300	6,000
	"	39-40	-	X		<10.0	54.0	<10.0	54.0	<0.050	<0.050	<0.050	<0.150	<0.300	6,080
	"	44-45	-	X		<10.0	81.1	<10.0	81.1	<0.050	<0.050	<0.050	<0.150	<0.300	6,480
SP-13	5/17/2019	0-1	-	X		<10.0	2,070	1,050	3,120	<0.050	<0.050	<0.050	<0.150	<0.300	3,200
	"	2-3	-	X		<10.0	129	35.5	165	<0.050	<0.050	<0.050	<0.150	<0.300	3,440
	"	4-5	-	X		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	1,380
	"	6-7	-	X		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	3,440
	"	9-10	-	X		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	3,840
	"	14-15	-	X		<10.0	<10.0	<10.0	<10.0	-	-	-	-	-	6,560
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	7,200
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	4,800
	"	29-30	-	X		-	-	-	-	-	-	-	-	-	1,420
	"	34-35	-	X		-	-	-	-	-	-	-	-	-	4,320
	"	39-40	-	X		-	-	-	-	-	-	-	-	-	4,480

**Table 1**  
**Permian Water Solutions**  
**Dorstate SWD**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
SP-14	5/15/2019	0-1	-	X		<10.0	87.9	39.1	127	<0.050	<0.050	<0.050	<0.150	<0.300	8,000
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	4,600
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	3,960
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	1,440
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	672
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	1,500
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	1,540
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	1,020
SP-15	5/15/2019	0-1	-	X		<10.0	545	203	748	<0.050	<0.050	<0.050	<0.150	<0.300	9,600
	"	2-3	-	X		<10.0	31.5	21.2	52.7	<0.050	<0.050	<0.050	<0.150	<0.300	2,960
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	8,400
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	10,300
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	3,440
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	464
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	720
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	352
SP-16	5/15/2019	0-1	-	X		<10.0	547	224	771	<0.050	<0.050	<0.050	<0.150	<0.300	3,120
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	672
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	288
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	144
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	1,250
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	848
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	560
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	1,120
SP-17	5/15/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	8,000
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,230
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	1,390
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	992
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	352
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	256
SP-18	5/15/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	384
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	384
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	544
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	736
SP-18	"	14-15	-	X		-	-	-	-	-	-	-	-	-	448

**Table 1**  
**Permian Water Solutions**  
**Dorstate SWD**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
SP-19	5/15/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	5,360
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,480
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	2,400
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	480
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	256
SP-20	5/16/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	7,920
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,630
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	2,480
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	432
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	144
SP-21	5/16/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,760
	"	2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,680
	"	4-5	-	X		-	-	-	-	-	-	-	-	-	2,240
	"	6-7	-	X		-	-	-	-	-	-	-	-	-	1,920
	"	9-10	-	X		-	-	-	-	-	-	-	-	-	1,340
	"	14-15	-	X		-	-	-	-	-	-	-	-	-	496
	"	19-20	-	X		-	-	-	-	-	-	-	-	-	1,100
	"	24-25	-	X		-	-	-	-	-	-	-	-	-	1,390

**Table 1**  
**Permian Water Solutions**  
**Dorstate SWD**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
BH-22	10/25/2019	0-1	-	X		1150	13,100	1,550	15,800	<0.00200	0.0422	0.0281	0.438	0.508	677
		2-3	-	X		705	8,840	933	10,500	<0.00198	0.0222	0.022	0.347	0.391	957
		4-5	-	X		186	3,580	369	4,140	<0.00199	0.0153	0.0223	0.198	0.235	1,560
		6-7	-	X		<49.9	783	79.9	863	<0.00199	<0.00199	<0.00199	0.0342	0.0342	1,380
		9-10	-	X		<49.9	318	72.2	390	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,800
		14-15	-	X		<49.8	198	<49.8	198	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,930
		19-20	-	X		<50.0	87.9	<50.0	87.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,660
		24-25	-	X		<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	598
		29-30	-	X		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,160
BH-23	10/25/2019	0-1	-	X		58.1	2,320	305	2,680	<0.00200	0.00254	<0.00200	0.0192	0.0217	398
		2-3	-	X		<49.9	430	63.0	493	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	415
		4-5	-	X		<50.0	424	60.6	485	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	348
		6-7	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	424
		9-10	-	X		<49.8	<49.8	<49.8	<49.8	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	403
		14-15	-	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	1,310
		19-20	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,490
		24-25	-	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	1,520
		29-30	-	X		<49.8	<49.8	<49.8	<49.8	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	2,640
BH-24	10/25/2019	0-1	-	X		156	7,170	906	8,230	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	840
		2-3	-	X		105	4,360	538	5,000	<0.00199	<0.00199	<0.00199	0.0246	0.0246	983
		4-5	-	X		67.2	2,310	245	2,620	<0.00201	<0.00201	<0.00201	0.0268	0.0268	2,810
		6-7	-	X		<49.9	161	<49.9	161	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	362
		9-10	-	X		<50.0	94.5	<50.0	94.5	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	1,100
		14-15	-	X		<49.9	70.4	<49.9	70.4	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	1,290
		19-20	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	400
		24-25	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	1,590
		29-30	-	X		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	2,470
BG-1	5/16/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
		2-3	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	208
		4-5	-	X		-	-	-	-	-	-	-	-	-	672
		6-7	-	X		-	-	-	-	-	-	-	-	-	352
		9-10	-	X		-	-	-	-	-	-	-	-	-	256
		14-15	-	X		-	-	-	-	-	-	-	-	-	176
		19-20	-	X		-	-	-	-	-	-	-	-	-	160
		24-25	-	X		-	-	-	-	-	-	-	-	-	144
		29-30	-	X		-	-	-	-	-	-	-	-	-	80.0
		34-35	-	X		-	-	-	-	-	-	-	-	-	128
		39-40	-	X		-	-	-	-	-	-	-	-	-	112

**Table 1**  
**Permian Water Solutions**  
**Dorstate SWD**  
**Eddy County, New Mexico**

Sample ID	Sample Date	Sample Depth (ft)	BEB Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	ORO	Total						
H-1	10/23/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	322
	"	1-2	-	X		<49.8	<49.8	<49.8	<49.8	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	325
H-2	10/23/2019	0-1	-	X		<50.0	169	<50.0	169	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	148
	"	1-2	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	275
H-2 (1)	11/11/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
H-3	10/23/2019	0-1	-	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	135
	"	1-2	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	148
H-4	10/23/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	641
	"	1-2	-	X		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	259
H-5	10/23/2019	0-1	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	452
	"	1-2	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	492
H-6	10/23/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	439
	"	1-2	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	516
H-7	10/23/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	243
	"	1-2	-	X		<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	175
H-8	10/23/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	281
	"	1-2	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	855
H-9	10/24/2019	0-8"	-	X		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	154
H-10	10/24/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	192
	"	1-2	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	72.7
H-11	10/24/2019	0-10"	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	0.00498	0.00914	0.01410	125
H-12	10/24/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	0.00440	0.00571	0.01010	57.4
	"	1-2	-	X		<50.0	141	<50.0	141	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	174
H-12 (1)	11/11/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
	"	1-2	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
H-13	10/24/2019	0-1	-	X		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	332
H-14	10/24/2019	0-1	-	X		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	32.0
	"	1-2	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	25.8
H-15	10/24/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	6.18
	"	1-2	-	X		<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	31.9
H-16	10/24/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	22.7
	"	1-2	-	X		<49.8	<49.8	<49.8	<49.8	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	307
H-17	10/25/2019	0-1	-	X		<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	38.3
	"	1-2	-	X		<49.9	<49.9	<49.9	<49.9	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	58.5
H-18	10/25/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	59.2
	"	1-2	-	X		<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	117
H-19	10/25/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	140
	"	1-2	-	X		<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	847
H-20	10/25/2019	0-1	-	X		<50.0	<50.0	<50.0	<50.0	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	435
	"	1-2	-	X		<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	126
H-21	11/11/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
H-22	11/11/2019	0-1	-	X		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	512

(-) Not Analyzed

## Photos



Permian Water Solutions,  
Dorstate SWD  
Eddy County, New Mexico



TETRA TECH



View West – Area of SP-1



View North – Area of SP-2



Permian Water Solutions,  
Dorstate SWD  
Eddy County, New Mexico



TETRA TECH



View North – Area of SP-3



View West – Area of SP-4



Permian Water Solutions,  
Dorstate SWD  
Eddy County, New Mexico



TETRA TECH



View North – Area of SP-6



View Northwest – Area of SP-7



Permian Water Solutions,  
Dorstate SWD  
Eddy County, New Mexico



View Southwest – Area of SP-8



View Southwest – Area of SP-9



Permian Water Solutions,  
Dorstate SWD  
Eddy County, New Mexico



TETRA TECH



View Northwest – Area of SP-10



View Southeast – Area of SP-11



Permian Water Solutions,  
Dorstate SWD  
Eddy County, New Mexico



TETRA TECH



View Southeast – Area of SP-12



View Northwest – Area of SP-13 and SP-14



Permian Water Solutions,  
Dorstate SWD  
Eddy County, New Mexico



TETRA TECH



View North – Area of SP-15



View North – Area of SP-16



Permian Water Solutions,  
Dorstate SWD  
Eddy County, New Mexico



TETRA TECH



View East – Area of SP-17



View Northwest – Area of SP-18



Permian Water Solutions,  
Dorstate SWD  
Eddy County, New Mexico



TETRA TECH



View Southwest – Area of SP-19



View Northwest – Area of SP-20



Permian Water Solutions,  
Dorstate SWD  
Eddy County, New Mexico



TETRA TECH



View North – Area of SP-21

Permian Water Solutions  
Dorstate SWD  
Eddy County, New Mexico



TETRA TECH



View East – Areas of BH-22, BH-23, and BH-24



View West – North Side of Facility

## Appendix A



## NM OIL CONSERVATION

ARTESIA DISTRICT

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

AUG 29 2017

Form C-141  
Revised April 3, 2017

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

RECEIVED

## Release Notification and Corrective Action

NAB1724135283 198688 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company	Cambrian Management, Ltd.	Contact	Mike Anthony
Address	PO Box 872, Midland, TX 79702	Telephone No.	432-631-4398
Facility Name	Dockate SWD	Facility Type	SWD

Surface Owner	Mineral Owner	API No.	30-015-23728
---------------	---------------	---------	--------------

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	27	25S	28E	1980	North	660	East	Eddy

Latitude 32.102684 Longitude 104.068565 NAD83

## NATURE OF RELEASE

Type of Release	Water, Produced Water	Volume of Release	25 bbls	Volume Recovered	0
Source of Release		Date and Hour of Occurrence		Date and Hour of Discovery	8-23-17
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	0:04 PM		
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Overflowing bumps due to truck drivers inattention and excess rainwater.

We will get soil samples and Trinity Environmental and proceed with proper remediation and cleanup

Describe Area Affected and Cleanup Action Taken.\*

Pasture land and SWD location

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Denise Jones	OIL CONSERVATION DIVISION	
Printed Name: Denise Jones	Signed By: [Signature] Approved by Environmental Specialist:	
Title: Regulatory Analyst	Approval Date: 8/29/17	Expiration Date: N/A
E-mail Address: djones@cambrianmngmt.com	Conditions of Approval: See attached	
Date: 8-24-17 Phone: 432-620-9181	Attached: [Signature] 4B6A	

\* Attach Additional Sheets If Necessary

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <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	
District RP	
Facility ID	
Application ID	

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Remediation Plan

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

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

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

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

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

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

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

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

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

## Appendix B



**Water Well Data**  
**Average Depth to Groundwater (ft)**  
**Permian Water Solutions - Dorstate SWD**

24 South			27 East		
6	5	4	3	2	1
7	8 <b>17</b>	9	10	11	12
18 <b>30</b>	17 <b>26</b>	16 <b>43</b>	15	14	13 <b>27</b>
<b>34</b>			22 <b>70</b>	23	24 <b>31</b>
19	20	21			
30	29	28	27	26	25
31	32	33	34	35	36

24 South			28 East		
6 <b>70</b>	5 <b>30</b>	4 <b>30</b>	3	2 <b>55</b>	1 <b>60</b>
7	8 <b>50</b>	9	10	11	12
18	17 <b>42</b>	16 <b>29</b>	15 <b>18</b>	14 <b>52</b>	13 <b>34</b>
19	20 <b>48</b>	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

24 South			29 East		
6	5	4	3	2	1
7	8	9	10	11	12
18 <b>160</b>	17 <b>4</b>	16 <b>18</b>	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

25 South			27 East		
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33 <b>19</b>	34	35	36

25 South			28 East		
6	5 <b>59</b>	4 <b>35</b>	3 <b>32</b>	2	1 <b>Site</b>
7 <b>45</b>	8	9	10	11	12
18	17	16	15 <b>48</b>	14	13
19	20	21	22 <b>49</b>	23	24
30	29 <b>96</b>	28	27	26 <b>40</b>	25
31	32 <b>15</b>	33 <b>90</b>	34	35 <b>55</b>	36 <b>40</b>

25 South			29 East		
6 <b>40</b>	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15 <b>40</b>	14	13
19	20	21	22 <b>60</b>	23	24
30	29	28	27	26	25
31 <b>30</b>	32 <b>115</b>	33	34	35	36

26 South			27 East		
6	5 <b>12</b>	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27 <b>50</b>	26	25
31	32	33	34	35	36

26 South			28 East		
6	5	4	3	2 <b>120</b>	1 <b>21</b>
7	8	9	10	11	12
18	17	16	15	14 <b>120</b>	13 <b>56</b>
19	20	21	22 <b>120</b>	23	24
30	29	28	27	26	25
31	32	33	34	35	36

26 South			29 East		
6	5 <b>78</b>	4	3	2	1
7	8	9	10	11	12
18	17	16	15 <b>125</b>	14	13
19	20	21	22 <b>57</b>	23	24
30	29	28	27 <b>69</b>	26	25
31	32	33	34	35	36

**88** New Mexico State Engineers Well Reports

**105** USGS Well Reports

**90** Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

**90** Geology and Groundwater Resources of Eddy County, NM (Report 3)

**34** NMOCD - Groundwater Data

**121** Abandoned Waterwell (recently measured)



# 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	Depth Well	Depth Water	Water Column
<a href="#">C 01278</a>	C	ED		4	3	28	25S	28E		585470	3551338*	205	90	115
<a href="#">C 01411</a>	C	ED		4	4	2	04	25S	28E	586289	3558522*	69	35	34
<a href="#">C 01453</a>	C	ED		1	2	26	25S	28E		589096	3552612*	70	40	30
<a href="#">C 01522</a>	C	ED			1	22	25S	28E		586843	3554004*	150		
<a href="#">C 01573 POD1</a>	C	ED		3	1	4	20	25S	28E	584144	3553361	176	96	80
<a href="#">C 02668</a>	C	ED		2	1	2	09	25S	28E	585890	3557525*	150		
<a href="#">C 03263 POD1</a>	CUB	ED		1	1	1	07	25S	28E	581628	3557501*	133		
<a href="#">C 03836 POD1</a>	C	ED		2	2	4	29	25S	28E	584682	3551934	300	30	270
<a href="#">C 03861 POD1</a>	C	ED		4	2	3	18	25S	28E	582266	3554864	91	63	28

Average Depth to Water: **59 feet**

Minimum Depth: **30 feet**

Maximum Depth: **96 feet**

Record Count: 9

PLSS Search:

Township: 25S

Range: 28E

\*UTM location was derived from PLSS - see Help

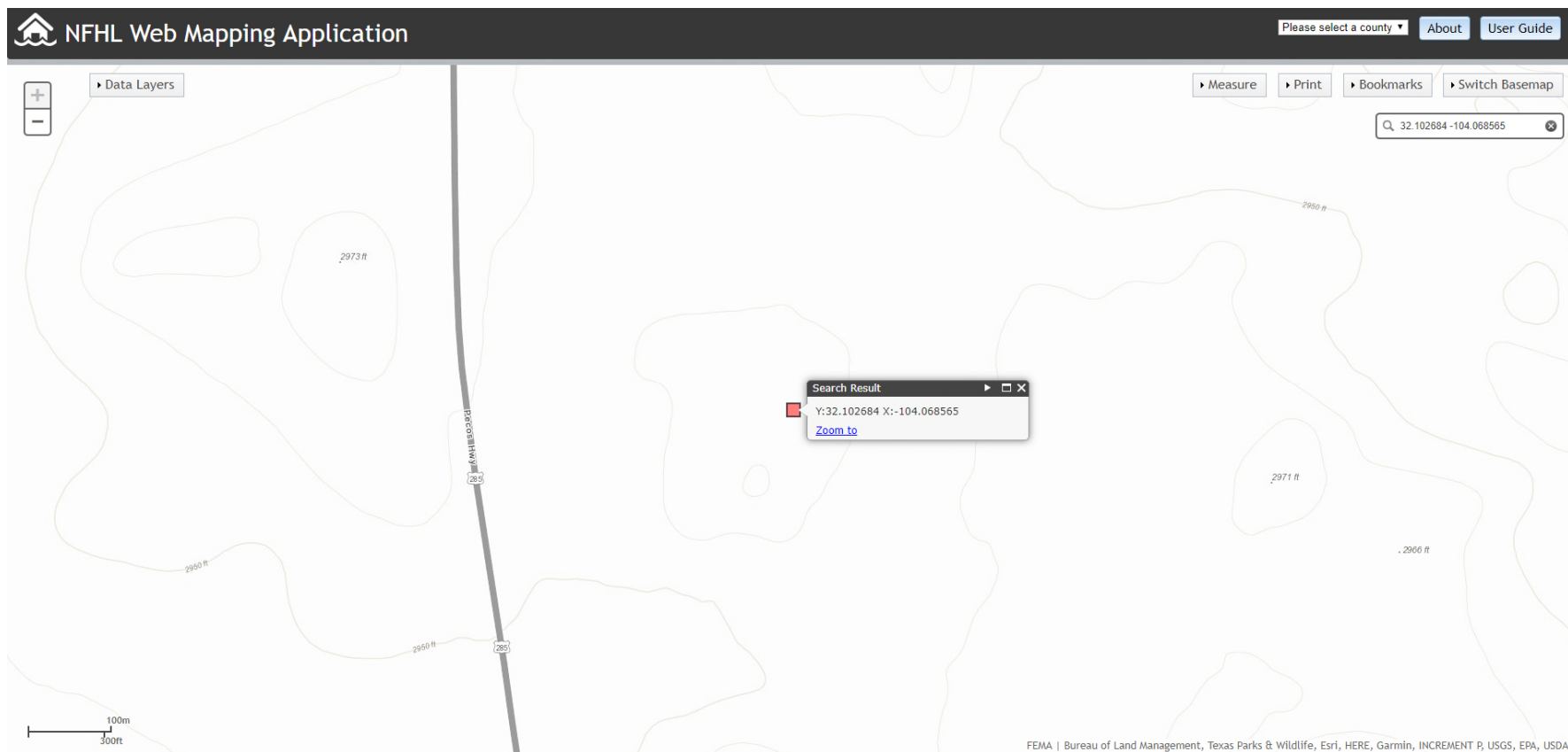
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/29/19 11:48 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER





## Appendix C

Released to Imaging: 6/27/2023 11:04:34 AM

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[illegible]

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[illegible]

[illegible]

[illegible]

[illegible]





*Released to Imaging: 6/27/2023 11:04:34 AM*





[illegible]

*Released to Imaging: 6/27/2023 11:04:34 AM*



*Released to Imaging: 6/27/2023 11:04:34 AM*

*Released to Imaging: 6/27/2023 11:04:34 AM*

[illegible]



**Borehole ID:**  
BH-22

## Soil Drilling Log with Field Testing Results

<b>Project Name :</b>	<u>Dorstate SWD</u>
<b>Project No. :</b>	<u>Pending</u>
<b>Location :</b>	<u>Eddy Co, NM</u>
<b>Coordinates :</b>	<u>32.103014 -104.069327</u>
<b>Elevation :</b>	<u></u>

**Date :** Friday, October 25, 2019

**Sampler :** Conner Moehring

**Driller :** Scarborough Drilling

**Method :** Air Rotary

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	PID
0		black and grey gravel and sand		H.O
		large grey and black rocks		H.O
5		Very dense layer of caliche		H.O
		black and grey caliche		H.O
10		yellow tan caliche		H.O
15		tan and yellow caliche		H.O
20		tan yellow caliche with noudles	1,520	S.O
25		yellow caliche		S.O
30		Moist yellow/white caliche		
35				
40				
45				
50				

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
50				
55				
60				
65				
70				
75				
		Comments: T.D 30'		

\* H.O. = Heavy Odor  
\* H.S. = Heavy Staining

- \* L.O. = Low Odor
- \* L.S. = Low Staining



**Borehole ID:**  
BH-23

## Soil Drilling Log with Field Testing Results

<b>Project Name :</b>	<u>Dorstate SWD</u>
<b>Project No. :</b>	<u>Pending</u>
<b>Location :</b>	<u>Eddy Co, NM</u>
<b>Coordinates :</b>	<u>32.103021 -104.069062</u>
<b>Elevation :</b>	

**Date :** Friday, October 25, 2019  
**Sampler :** Conner Moehring  
**Driller :** Scarborough Drilling  
**Method :** Air Rotary

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	PID
0		Black and grey gravel		S.O
		large and grey gravel with caliche		S.O
5		yellow and white caliche		S.O
10		white and grey caliche	920	S.O
15		white and yellow caliche		L.O
20		white and yellow caliche	1,900	L.O
25		Fine powdery gypsum		L.O
30		moist caliche yellowish white		
35				
40				
45				
50				

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
50				
55				
60				
65				
70				
75				
		Comments: T.D 30'		

\* H.O. = Heavy Odor  
\* H.S. = Heavy Staining

\* L.O. = Low Odor  
\* L.S. = Low Staining





**Borehole ID:**  
BH-24

## Soil Drilling Log with Field Testing Results

<b>Project Name :</b>	<u>Dorstate SWD</u>
<b>Project No. :</b>	<u>Pending</u>
<b>Location :</b>	<u>Eddy Co, NM</u>
<b>Coordinates :</b>	<u>32.102988 -104.068980</u>
<b>Elevation :</b>	

**Date :** Friday, October 25, 2019  
**Sampler :** Conner Moehring  
**Driller :** Scarborough Drilling  
**Method :** Air Rotary

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	PID
0		Grey , yellow caliche and gravel		H.O
		Large caliche gravel		
5		grey caliche		H.O
		Dense layer of caliche		
10		tan/ white caliche		H.O
15		white caliche		H.O
20		brown yellow caliche		H.O
25		brown yellow caliche		S.O
30		Mosit fine caliche		S.O
35				
40				
45				
50				

Depth (ft.)	WL	Soil Description	Chloride Field Test (ppm)	Field Titration Test (ppm)
50				
55				
60				
65				
70				
75				
		Comments: T.D 30'		

\* H.O. = Heavy Odor  
\* H.S. = Heavy Staining

\* L.O. = Low Odor  
\* L.S. = Low Staining

## Appendix D



PO Box 301 | Lovington, NM 88260 | Phone 575.396.2378

**August 28, 2018**

**Attn. Mike Bratcher**

NMOCD, District 2

811 South First Street

Artesia, NM 88210

**RE: Corrective Action Plan  
Cambrian Management  
Dorstate SWD  
UL/H Sec.27, T25S R28E  
32.102789, -104.068449  
NMOCD Reference # 2RP – 4364**

Mr. Bratcher:

Cambrian Management (Cambrian) has retained Basin Environmental Service Technologies (Basin) 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 H of Section 27 in Township 25 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 sixty-five (65) +/- feet below ground surface (bgs) (See Figure 4).

On August 23, 2017, a representative of the New Mexico State Land Office (NMSLO) notified Cambrian and the New Mexico Oil Conservation Division's (NMOCD) Artesia District Office via email that a release (or series of releases) had occurred at the Dorstate Salt Water Disposal (SWD). It was determined that driver inattention and excess rainwater had caused the on-site sumps to overflow. This resulted in the release of approximately twenty-five (25) barrels of produced water. No liquids from the release were recovered. An environmental site assessment was performed, and it was determined that the current release and/or historical release(s) is estimated to have impacted two-hundred and twelve thousand, six-hundred and seventy-two (212,672) square feet (ft<sup>2</sup>) of gypsum pad and pasture. An initial C-141 (Release Notification and Corrective Action) was submitted to NMOCD on August 24<sup>th</sup>, 2017 for approval.

Basin personnel were on site beginning July 23<sup>rd</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.

## Corrective Action Plan

The pad area will be excavated to an approximate depth of 1-2', bgs. 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 of benzene, toluene, ethyl-benzene xylenes (BTEX), gasoline range organics (GRO), diesel range organics (DRO), oil range organics (ORO), (total petroleum hydrocarbons [TPH], and chlorides. If the laboratory analyses indicate any of the constituents of interest are above the recommended remediation action levels (RRAL) for this location (1,000 mg/kg – TPH, 50 mg/kg – BTEX, 600 mg/kg – chlorides), after delineation, a 20-mil liner will be placed to ensure percolation is limited vertically downward as well as preventing effusion upwards towards the surface. Before liner placement (if required), full delineation of each sample point will occur. (See attached Perimeter Sampling 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 remediation, the perimeter of the reserve pit will be identified, and it will have a new liner placed with 2' of clean, non-impacted topsoil placed and contoured for drainage.

At a time conducive for germination, the location will be seeded with the preferred seed mix of the land owner free of non-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 supporting documentation for this Corrective Action Plan is attached.

Basin 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,

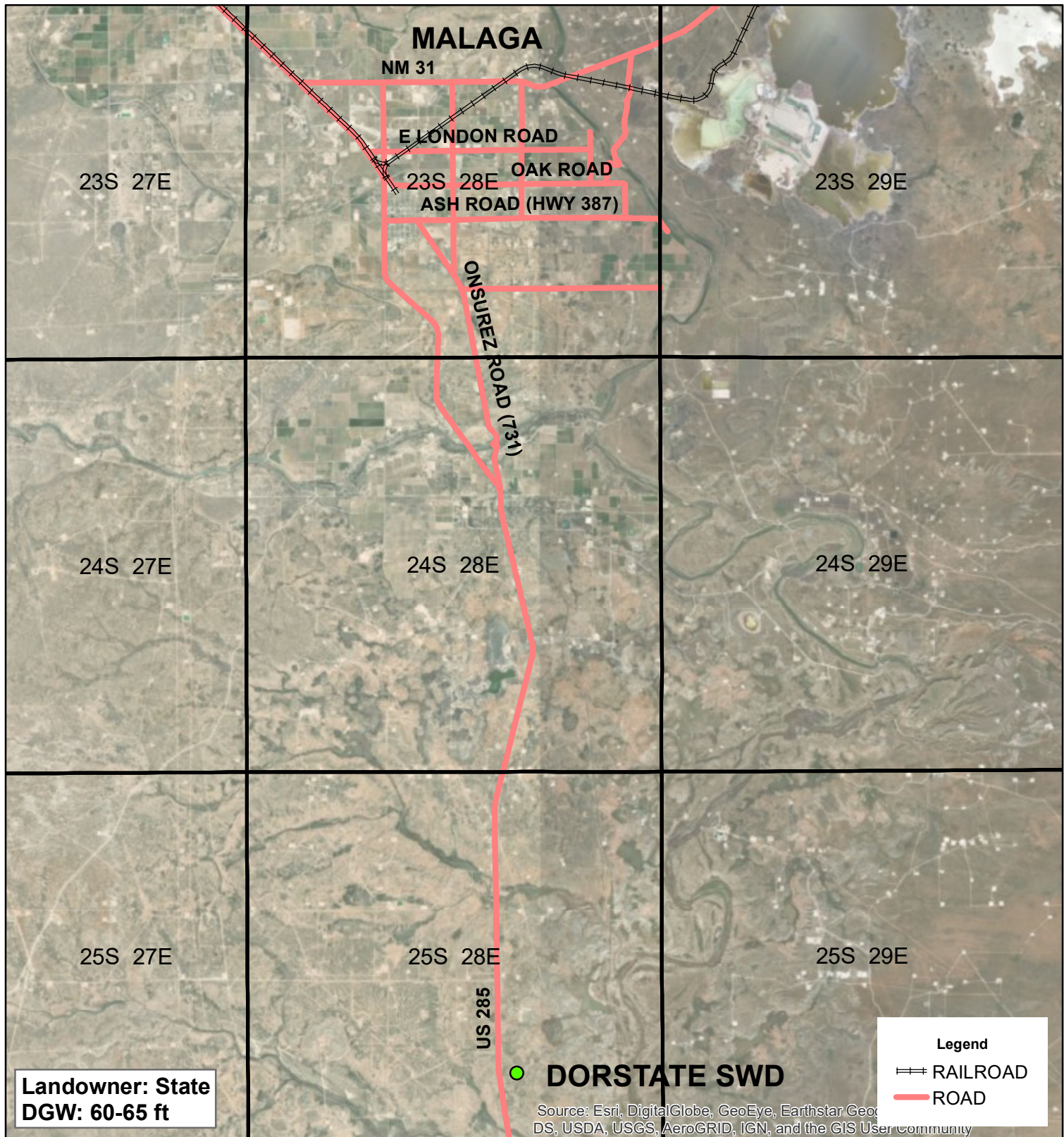


Robbie Runnels  
Project Manager  
Basin Environmental Service Technologies  
(575) 396-2378

Attachments:

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



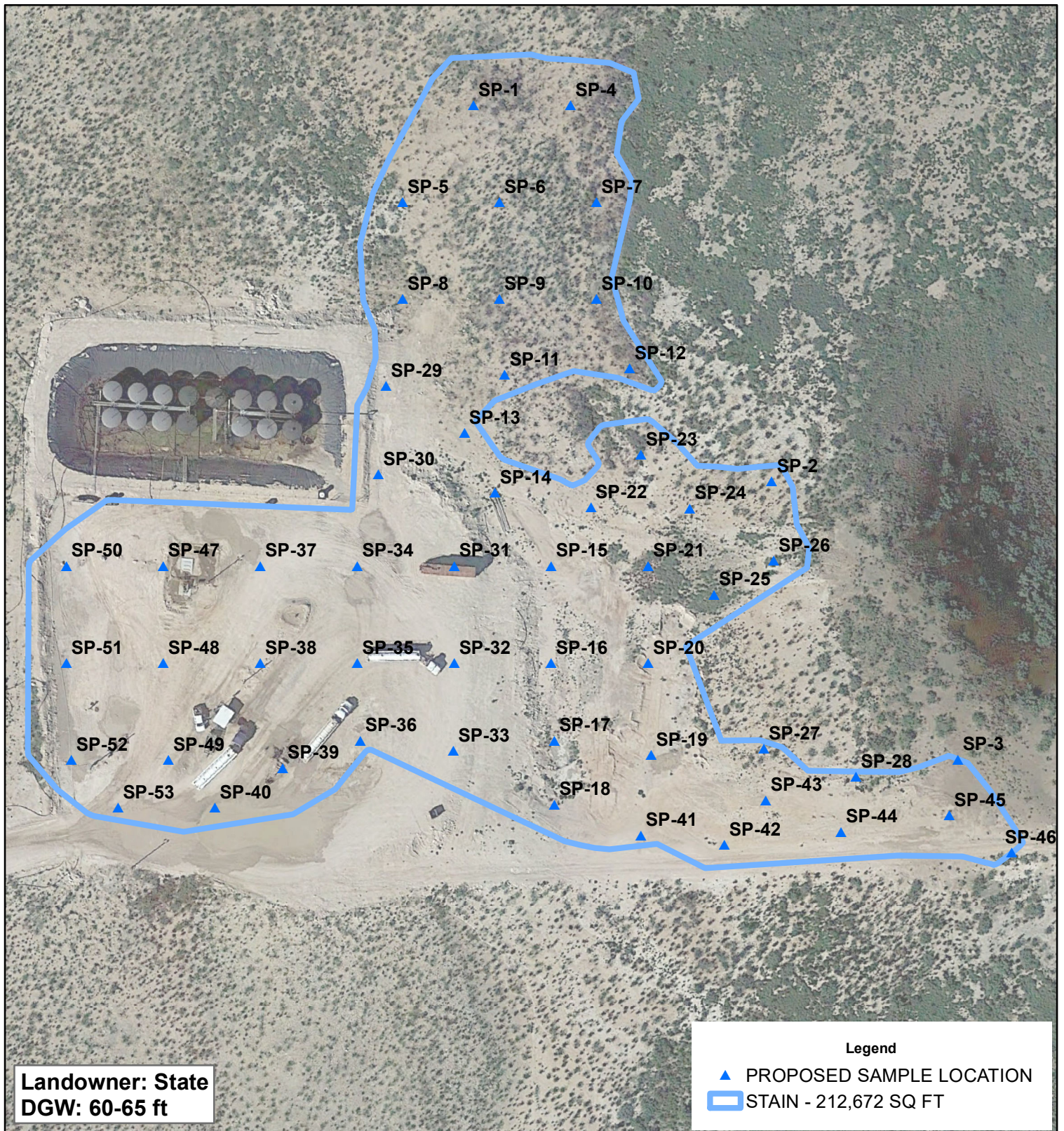


**CAMBRIAN**  
**DORSTATE SWD**  
2RP-4364

UL H SECTION 27  
T-25-S R-28-E  
EDDY COUNTY, NM



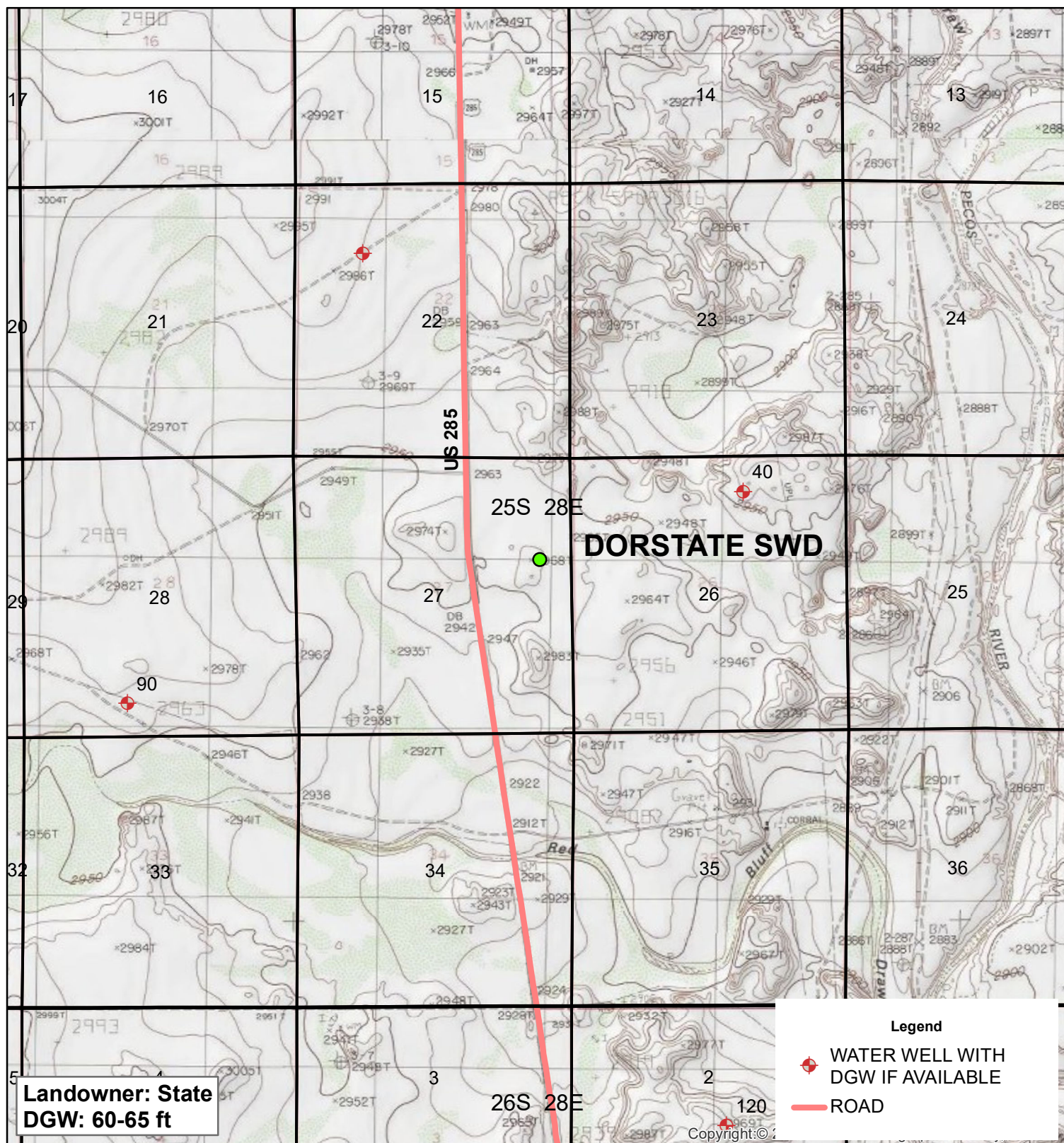
## Initial Sampling



# CAMBRIAN DORSTATE SWD

UL H SECTION 27  
T-25-S R-28-E  
EDDY COUNTY, NM





**CAMBRIAN**  
**DORSTATE SWD**  
2RP-4364

UL H SECTION 27  
T-25-S R-28-E  
EDDY COUNTY, NM

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

OXY USA, INC.  
DORSTATE SWD  
EDDY COUNTY, NEW MEXICO  
NMOCD REFERENCE #: 2RP-4364

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M				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	1,000	600
SP-1 @ 1'	1'	3/29/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,030
SP-1 @ 5'	5'	3/29/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,120
SP-1 @ 9'	9'	3/29/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,610
SP-2 @ 1'	1'	3/29/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	55.7
SP-3 @ 1'	1'	3/29/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	75.1
SP-4 @ 1'	1'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,740
SP-4 @ 3'	3'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,860
SP-4 @ 5'	5'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	850
SP-4 @ 6'	6'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	758
SP-5 @ 1'	1'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,800
SP-5 @ 3'	3'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,900
SP-6 @ 1'	1'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	38.3
SP-7 @ 1'	1'	4/2/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	98.4
SP-8 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	8,070
SP-9 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	119
SP-10 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	35.6
SP-11 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	29.7	<10.0	29.7	5,040
SP-12 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,450
SP-12 @ 3'	3'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,460
SP-12 @ 5'	5'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,180
SP-13 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,600

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

OXY USA, INC.  
DORSTATE SWD  
EDDY COUNTY, NEW MEXICO  
NMOCD REFERENCE #: 2RP-4364

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M				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	1,000	600
SP-14 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	9,180
SP-15 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	37.0	11.5	48.5	5,240
SP-16 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	269
SP-17 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,710
SP-18 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,130
SP-19 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,150
SP-20 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	31.0
SP-21 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<50.0
SP-22 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SP-23 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	37.9
SP-24 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	20.5
SP-25 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,390
SP-26 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	292
SP-27 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	35.7	24.9	60.6	931
SP-28 @ 1'	1'	4/3/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	945
SP-29 @ 1'	1'	4/9/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,310
SP-29 @ 8'	8'	4/9/2018	In-Situ	-	-	-	-	-	-	-	-	-	336



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

OXY USA, INC.  
DORSTATE SWD  
EDDY COUNTY, NEW MEXICO  
NMOCD REFERENCE #: 2RP-4364

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M				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	1,000	600
SP-30 @ 1'	1'	4/9/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,490
SP-30 @ 6'	6'	4/9/2018	In-Situ	-	-	-	-	-	-	-	-	-	336
SP-31 @ 1'	1'	4/9/2018	In-Situ	-	-	-	-	-	-	-	-	-	928
SP-31 @ 10'	10'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	944
SP-32 @ 1'	1'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	912
SP-32 @ 10'	10'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	560
SP-33 @ 1'	1'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	4,240
SP-33 @ 10'	10'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	3,800
SP-34 @ 1'	1'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	7,100
SP-34 @ 10'	10'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,540
SP-35 @ 1'	1'	4/10/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	97.7	38.0	136	8,200
SP-35 @ 10'	10'	4/10/2018	In-Situ	-	-	-	-	-	-	-	-	-	4,300
SP-36 @ 1'	1'	4/11/2018	In-Situ	<0.050	0.062	<0.050	1.12	1.18	38.1	1,190	216	1,444	12,000
SP-36 @ 10'	10'	4/11/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.2	<10.0	19.2	2,320
SP-37 @ 1'	1'	4/11/2018	In-Situ	-	-	-	-	-	-	-	-	-	5,440
SP-37 @ 10'	10'	4/11/2018	In-Situ	-	-	-	-	-	-	-	-	-	4,560
SP-38 @ 1'	1'	4/11/2018	In-Situ	-	-	-	-	-	-	-	-	-	8,800
SP-38 @ 10'	10'	4/11/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,650
SP-39 @ 4'	4'	4/11/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	15,600
SP-39 @ 10'	10'	4/11/2018	In-Situ	-	-	-	-	-	-	-	-	-	7,000
SP-40 @ 1'	1'	4/11/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,160
SP-40 @ 10'	10'	4/11/2018	In-Situ	-	-	-	-	-	-	-	-	-	960

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

OXY USA, INC.  
DORSTATE SWD  
EDDY COUNTY, NEW MEXICO  
NMOCD REFERENCE #: 2RP-4364

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M				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	1,000	600
SP-41 @ 1'	1'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,600
SP-41 @ 5'	5'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	368
SP-42 @ 1'	1'	4/12/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,600
SP-42 @ 6'	6'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	384
SP-43 @ 1'	1'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,520
SP-43 @ 10'	10'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	3,120
SP-44 @ 1'	1'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,280
SP-44 @ 7'	7'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	304
SP-45 @ 1'	1'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	864
SP-45 @ 3'	3'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	224
SP-46 @ 1'	1'	4/12/2018	In-Situ	-	-	-	-	-	-	-	-	-	160
SP-47 @ 1'	1'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,160
SP-47 @ 10'	10'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,090
SP-48 @ 1'	1'	4/13/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6,320
SP-48 @ 10'	10'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	5,200
SP-49 @ 1'	1'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	8,000
SP-49 @ 10'	10'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,200
SP-50 @ 1'	1'	4/13/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	67.8	58.0	126	7,360
SP-50 @ 10'	10'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	3,160
SP-51 @ 1'	1'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,000
SP-51 @ 10'	10'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	1,020



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

OXY USA, INC.  
DORSTATE SWD  
EDDY COUNTY, NEW MEXICO  
NMOCD REFERENCE #: 2RP-4364

SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	METHOD: EPA SW 846-8021B, 5030					METHOD: 8015M				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	1,000	600
SP-52 @ 1'	1'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	2,640
SP-52 @ 10'	10'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	528
SP-53 @ 1'	1'	4/13/2018	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.8	<10.0	13.8	5,280
SP-53 @ 10'	10'	4/13/2018	In-Situ	-	-	-	-	-	-	-	-	-	784

NE = Not established

- = Not analyzed

Concentrations in BOLD exceed NMOCD RRALs



Dorstate SWD - Release Site (Looking Northwest)



Dorstate SWD - Release Site (Looking North-Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North-Northwest)





Dorstate SWD – Release Site (Looking Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking West)





Dorstate SWD – Release Site (Looking West)



Dorstate SWD – Release Site (Looking Northwest)





Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking Northeast)



Dorstate SWD – Release Site (Looking Northwest)



Dorstate SWD – Release Site (Looking North)





Dorstate SWD – Release Site (Looking North)



Dorstate SWD – Release Site (Looking Southwest)



Dorstate SWD – Release Site (Looking Northeast)



Dorstate SWD – Release Site (Looking Northwest)





Dorstate SWD – Release Site (Looking West-Northwest)



Dorstate SWD – Release Site (Looking West-Northwest)

## NM OIL CONSERVATION

ARTESIA DISTRICT

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

AUG 29 2017

Form C-141  
Revised April 3, 2017

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

## Release Notification and Corrective Action

NAB1724135283 198688 OPERATOR ☒ Initial Report ☐ Final Report

Name of Company	Cambrian Management, Ltd.	Contact	Mike Anthony
Address	PO Box 872, Midland, TX 79702	Telephone No.	432-631-4398
Facility Name	Dockate SWD	Facility Type	SWD

Surface Owner	Mineral Owner	API No.	30-015-23728
---------------	---------------	---------	--------------

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	27	25S	28E	1980	North	660	East	Eddy

Latitude 32.102684 Longitude 104.068565 NAD83

## NATURE OF RELEASE

Type of Release	Water, Produced Water	Volume of Release	25 bbls	Volume Recovered	0
Source of Release		Date and Hour of Occurrence		Date and Hour of Discovery	8-23-17
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	0:04 PM		
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Overflowing bumps due to truck drivers inattention and excess rainwater.

We will get soil samples and Trinity Environmental and proceed with proper remediation and cleanup

Describe Area Affected and Cleanup Action Taken.\*

Pasture land and SWD location

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Denise Jones	OIL CONSERVATION DIVISION	
Printed Name: Denise Jones	Signed By: [Signature] Approved by Environmental Specialist:	
Title: Regulatory Analyst	Approval Date: 8/29/17	Expiration Date: N/A
E-mail Address: djones@cambrianmgmt.com	Conditions of Approval: See attached	
Date: 8-24-17 Phone: 432-620-9181	Attached: [Signature] 4B6A	

\* Attach Additional Sheets If Necessary

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

---

April 11, 2018

BEN ARGUIJO

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: DORSTATE SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/04/18 16:30.

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

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

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

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

Reported:  
11-Apr-18 15:38

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-1 @ 1'	H800935-01	Soil	29-Mar-18 10:00	04-Apr-18 16:30
SP-1 @ 5'	H800935-02	Soil	29-Mar-18 12:00	04-Apr-18 16:30
SP-1 @ 9'	H800935-03	Soil	29-Mar-18 14:50	04-Apr-18 16:30
SP-2 @ 1'	H800935-04	Soil	29-Mar-18 13:00	04-Apr-18 16:30
SP-3 @ 1'	H800935-05	Soil	29-Mar-18 13:40	04-Apr-18 16:30
SP-4 @ 1'	H800935-06	Soil	02-Apr-18 10:30	04-Apr-18 16:30
SP-4 @ 3'	H800935-07	Soil	02-Apr-18 11:00	04-Apr-18 16:30
SP-4 @ 5'	H800935-08	Soil	02-Apr-18 11:30	04-Apr-18 16:30
SP-4 @ 6'	H800935-09	Soil	02-Apr-18 12:00	04-Apr-18 16:30
SP-5 @ 1'	H800935-10	Soil	02-Apr-18 13:00	04-Apr-18 16:30
SP-5 @ 3'	H800935-11	Soil	02-Apr-18 13:15	04-Apr-18 16:30
SP-6 @ 1'	H800935-12	Soil	02-Apr-18 14:30	04-Apr-18 16:30
SP-7 @ 1'	H800935-13	Soil	02-Apr-18 14:50	04-Apr-18 16:30
SP-8 @ 1'	H800935-14	Soil	03-Apr-18 09:00	04-Apr-18 16:30
SP-9 @ 1'	H800935-15	Soil	03-Apr-18 09:10	04-Apr-18 16:30
SP-10 @ 1'	H800935-16	Soil	03-Apr-18 09:15	04-Apr-18 16:30
SP-11 @ 1'	H800935-17	Soil	03-Apr-18 09:20	04-Apr-18 16:30
SP-12 @ 1'	H800935-18	Soil	03-Apr-18 09:30	04-Apr-18 16:30
SP-12 @ 3'	H800935-19	Soil	03-Apr-18 10:10	04-Apr-18 16:30
SP-12 @ 5'	H800935-20	Soil	03-Apr-18 10:20	04-Apr-18 16:30
SP-13 @ 1'	H800935-21	Soil	03-Apr-18 10:40	04-Apr-18 16:30
SP-14 @ 1'	H800935-22	Soil	03-Apr-18 10:45	04-Apr-18 16:30
SP-15 @ 1'	H800935-23	Soil	03-Apr-18 10:50	04-Apr-18 16:30
SP-16 @ 1'	H800935-24	Soil	03-Apr-18 10:55	04-Apr-18 16:30
SP-17 @ 1'	H800935-25	Soil	03-Apr-18 11:00	04-Apr-18 16:30
SP-18 @ 1'	H800935-26	Soil	03-Apr-18 11:05	04-Apr-18 16:30
SP-19 @ 1'	H800935-27	Soil	03-Apr-18 11:10	04-Apr-18 16:30

Cardinal Laboratories

\*=Accredited Analyte

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

Reported:  
11-Apr-18 15:38

SP-20 @ 1'	H800935-28	Soil	03-Apr-18 11:15	04-Apr-18 16:30
SP-21 @ 1'	H800935-29	Soil	03-Apr-18 11:20	04-Apr-18 16:30
SP-22 @ 1'	H800935-30	Soil	03-Apr-18 11:25	04-Apr-18 16:30
SP-23 @ 1'	H800935-31	Soil	03-Apr-18 11:30	04-Apr-18 16:30
SP-24 @ 1'	H800935-32	Soil	03-Apr-18 11:35	04-Apr-18 16:30
SP-25 @ 1'	H800935-33	Soil	03-Apr-18 11:40	04-Apr-18 16:30
SP-26 @ 1'	H800935-34	Soil	03-Apr-18 11:50	04-Apr-18 16:30
SP-27 @ 1'	H800935-35	Soil	03-Apr-18 11:55	04-Apr-18 16:30
SP-28 @ 1'	H800935-36	Soil	03-Apr-18 12:00	04-Apr-18 16:30

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**Analytical Results For:**

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

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

Reported:  
11-Apr-18 15:38

**SP-1 @ 1'**  
**H800935-01 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctane			80.6 %	41-142		8040603	MS	06-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			69.2 %	37.6-147		8040603	MS	06-Apr-18	8015B	

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

Chloride	4030		100	mg/kg wet	100	B804052	JDA	06-Apr-18	EPA300.0	
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\*=Accredited Analyte

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

Reported:  
11-Apr-18 15:38

**SP-1 @ 5'**  
**H800935-02 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			82.4 %	41-142		8040603	MS	06-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			72.1 %	37.6-147		8040603	MS	06-Apr-18	8015B	

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

Chloride	2120		100	mg/kg wet	100	B804052	JDA	06-Apr-18	EPA300.0	
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\*=Accredited Analyte

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

Reported:  
11-Apr-18 15:38

**SP-1 @ 9'**  
**H800935-03 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			83.6 %	41-142		8040603	MS	06-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			75.0 %	37.6-147		8040603	MS	06-Apr-18	8015B	

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

Chloride	1610		100	mg/kg wet	100	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-2 @ 1'**  
**H800935-04 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			82.8 %	41-142		8040603	MS	06-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			74.4 %	37.6-147		8040603	MS	06-Apr-18	8015B	

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

Chloride	55.7		10.0	mg/kg wet	10	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-3 @ 1'**  
**H800935-05 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	06-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			85.7 %	41-142		8040603	MS	06-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			76.2 %	37.6-147		8040603	MS	06-Apr-18	8015B	

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

Chloride	75.1		50.0	mg/kg wet	50	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-4 @ 1'**  
**H800935-06 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			80.2 %	41-142		8040603	MS	07-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			70.0 %	37.6-147		8040603	MS	07-Apr-18	8015B	

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

Chloride	4740		100	mg/kg wet	100	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-4 @ 3'**  
**H800935-07 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			82.4 %	41-142		8040603	MS	07-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			68.9 %	37.6-147		8040603	MS	07-Apr-18	8015B	

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

Chloride	1860		100	mg/kg wet	100	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-4 @ 5'**  
**H800935-08 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			86.1 %	41-142		8040603	MS	07-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			71.8 %	37.6-147		8040603	MS	07-Apr-18	8015B	

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

Chloride	850		50.0	mg/kg wet	50	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-4 @ 6'**  
**H800935-09 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	11-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	11-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	11-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	11-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	11-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			96.3 %	72-148		8040505	MS	11-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040603	MS	07-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			86.8 %	41-142		8040603	MS	07-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			70.2 %	37.6-147		8040603	MS	07-Apr-18	8015B	

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

Chloride	758		50.0	mg/kg wet	50	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-5 @ 1'**  
**H800935-10 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			78.8 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			84.0 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	4800		100	mg/kg wet	100	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-5 @ 3'**  
**H800935-11 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			102 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			87.3 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			86.6 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	3900		100	mg/kg wet	100	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-6 @ 1'**  
**H800935-12 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			80.9 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			77.8 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	38.3		10.0	mg/kg wet	10	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-7 @ 1'**  
**H800935-13 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			103 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			84.2 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			82.2 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	98.4		10.0	mg/kg wet	10	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-8 @ 1'**  
**H800935-14 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			88.6 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			88.0 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	8070		200	mg/kg wet	200	B804052	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-9 @ 1'**  
**H800935-15 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			85.9 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			84.3 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	119		10.0	mg/kg wet	10	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-10 @ 1'**  
**H800935-16 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			87.3 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			85.2 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	35.6		10.0	mg/kg wet	10	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-11 @ 1'**  
**H800935-17 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>29.7</b>		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			88.6 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			89.7 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	5040		100	mg/kg wet	100	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-12 @ 1'**  
**H800935-18 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			79.0 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			75.2 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	1450		50.0	mg/kg wet	50	B804052	JDA	06-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-12 @ 3'**  
**H800935-19 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			89.4 %	41-142		8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			95.0 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	2460		100	mg/kg wet	100	B804052	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-12 @ 5'**  
**H800935-20 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040505	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040505	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	72-148		8040505	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			91.5 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			98.9 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	1180		50.0	mg/kg wet	50	B804052	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-13 @ 1'**  
**H800935-21 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	QR-03
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	QR-03
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	72-148		8040506	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			89.6 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			97.0 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	2600		100	mg/kg wet	100	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-14 @ 1'**  
**H800935-22 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	72-148		8040506	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			91.2 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			98.6 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	9180		200	mg/kg wet	200	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-15 @ 1'**  
**H800935-23 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	72-148		8040506	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	37.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	11.5		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			96.4 %	41-142		8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			108 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	5240		200	mg/kg wet	200	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-16 @ 1'**  
**H800935-24 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	05-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	05-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	72-148		8040506	MS	05-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			88.3 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			95.7 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	269		200	mg/kg wet	200	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-17 @ 1'**  
**H800935-25 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			93.8 %	41-142		8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			96.2 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	1710		200	mg/kg wet	200	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-18 @ 1'**  
**H800935-26 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			107 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			93.8 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			97.4 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	3130		100	mg/kg wet	100	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-19 @ 1'**  
**H800935-27 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			106 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			86.3 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			91.1 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	1150		200	mg/kg wet	200	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-20 @ 1'**  
**H800935-28 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			86.5 %	41-142		8040901	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			94.7 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	31.0		10.0	mg/kg wet	10	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-21 @ 1'**  
**H800935-29 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			109 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			90.8 %	41-142		8040901	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			98.9 %	37.6-147		8040901	MS	10-Apr-18	8015B	

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

Chloride	<50.0		50.0	mg/kg wet	50	B804053	JDA	07-Apr-18	EPA300.0	
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\*=Accredited Analyte

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

Reported:  
11-Apr-18 15:38

**SP-22 @ 1'**  
**H800935-30 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			84.3 %	41-142		8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			70.1 %	37.6-147		8040902	MS	10-Apr-18	8015B	

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

Chloride	16.0		10.0	mg/kg wet	10	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-23 @ 1'**  
**H800935-31 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			87.2 %	41-142		8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			71.8 %	37.6-147		8040902	MS	10-Apr-18	8015B	

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

Chloride	37.9		10.0	mg/kg wet	10	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-24 @ 1'**  
**H800935-32 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			87.5 %	41-142		8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			71.8 %	37.6-147		8040902	MS	10-Apr-18	8015B	

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

Chloride	20.5		10.0	mg/kg wet	10	B804053	JDA	07-Apr-18	EPA300.0	
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**Analytical Results For:**

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

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

Reported:  
11-Apr-18 15:38

**SP-25 @ 1'**  
**H800935-33 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			109 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			93.2 %	41-142		8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			78.5 %	37.6-147		8040902	MS	10-Apr-18	8015B	

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

Chloride	2390		200	mg/kg wet	200	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-26 @ 1'**  
**H800935-34 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			108 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			94.7 %	41-142		8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			81.1 %	37.6-147		8040902	MS	10-Apr-18	8015B	

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

Chloride	292		10.0	mg/kg wet	10	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-27 @ 1'**  
**H800935-35 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
<b>DRO &gt;C10-C28*</b>	<b>35.7</b>		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
<b>EXT DRO &gt;C28-C36</b>	<b>24.9</b>		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			91.9 %	41-142		8040902	MS	10-Apr-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			94.9 %	37.6-147		8040902	MS	10-Apr-18	8015B	

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

Chloride	931		200	mg/kg wet	200	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

**SP-28 @ 1'**  
**H800935-36 (Soil)**

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

Benzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8040506	MS	06-Apr-18	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			110 %	72-148		8040506	MS	06-Apr-18	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctane			93.0 %	41-142		8040902	MS	10-Apr-18	8015B	
Surrogate: 1-Chlorooctadecane			89.6 %	37.6-147		8040902	MS	10-Apr-18	8015B	

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

Chloride	945		200	mg/kg wet	200	B804053	JDA	07-Apr-18	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: DORSTATE SWD  
Project Number: NONE GIVEN  
Project Manager: BEN ARGUIJO  
Fax To: NONE

Reported:  
11-Apr-18 15:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8040505 - Volatiles****Blank (8040505-BLK1)**

Prepared &amp; Analyzed: 05-Apr-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.103		mg/kg	0.100		103	72-148			

**LCS (8040505-BS1)**

Prepared &amp; Analyzed: 05-Apr-18

Benzene	2.14	0.050	mg/kg	2.00		107	79.5-124			
Toluene	2.11	0.050	mg/kg	2.00		106	75.5-127			
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	77.7-125			
Total Xylenes	6.59	0.150	mg/kg	6.00		110	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	72-148			

**LCS Dup (8040505-BSD1)**

Prepared &amp; Analyzed: 05-Apr-18

Benzene	2.09	0.050	mg/kg	2.00		105	79.5-124	2.15	6.5	
Toluene	2.08	0.050	mg/kg	2.00		104	75.5-127	1.45	7.02	
Ethylbenzene	2.09	0.050	mg/kg	2.00		104	77.7-125	1.57	7.83	
Total Xylenes	6.48	0.150	mg/kg	6.00		108	70.9-124	1.75	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.103		mg/kg	0.100		103	72-148			

**Batch 8040506 - Volatiles****Blank (8040506-BLK1)**

Prepared &amp; Analyzed: 05-Apr-18

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.107		mg/kg	0.100		107	72-148			

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

Reported:  
11-Apr-18 15:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8040506 - Volatiles****LCS (8040506-BS1)**

Prepared &amp; Analyzed: 05-Apr-18

Benzene	1.79	0.050	mg/kg	2.00		89.5	79.5-124			
Toluene	1.87	0.050	mg/kg	2.00		93.4	75.5-127			
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.7	77.7-125			
Total Xylenes	5.58	0.150	mg/kg	6.00		93.0	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.107		mg/kg	0.100		107	72-148			

**LCS Dup (8040506-BS1)**

Prepared &amp; Analyzed: 05-Apr-18

Benzene	1.76	0.050	mg/kg	2.00		88.1	79.5-124	1.55	6.5	
Toluene	1.83	0.050	mg/kg	2.00		91.5	75.5-127	2.07	7.02	
Ethylbenzene	1.84	0.050	mg/kg	2.00		92.1	77.7-125	1.78	7.83	
Total Xylenes	5.48	0.150	mg/kg	6.00		91.3	70.9-124	1.83	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.108		mg/kg	0.100		108	72-148			

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**Analytical Results For:**

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

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

Reported:  
11-Apr-18 15:38

**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 8040603 - General Prep - Organics****Blank (8040603-BLK1)**

Prepared &amp; Analyzed: 06-Apr-18

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	46.5		mg/kg	50.0		92.9	41-142			
Surrogate: 1-Chlorooctadecane	43.0		mg/kg	50.0		86.0	37.6-147			

**LCS (8040603-BS1)**

Prepared &amp; Analyzed: 06-Apr-18

GRO C6-C10	213	10.0	mg/kg	200		106	76.5-133			
DRO >C10-C28	214	10.0	mg/kg	200		107	72.9-138			
Total TPH C6-C28	427	10.0	mg/kg	400		107	78-132			
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	41-142			
Surrogate: 1-Chlorooctadecane	46.2		mg/kg	50.0		92.4	37.6-147			

**LCS Dup (8040603-BSD1)**

Prepared &amp; Analyzed: 06-Apr-18

GRO C6-C10	218	10.0	mg/kg	200		109	76.5-133	2.47	20.6	
DRO >C10-C28	214	10.0	mg/kg	200		107	72.9-138	0.117	20.6	
Total TPH C6-C28	432	10.0	mg/kg	400		108	78-132	1.30	18	
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0		96.6	41-142			
Surrogate: 1-Chlorooctadecane	45.9		mg/kg	50.0		91.8	37.6-147			

**Batch 8040901 - General Prep - Organics****Blank (8040901-BLK1)**

Prepared: 09-Apr-18 Analyzed: 10-Apr-18

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	47.3		mg/kg	50.0		94.6	41-142			
Surrogate: 1-Chlorooctadecane	46.6		mg/kg	50.0		93.1	37.6-147			

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**Analytical Results For:**

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

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

Reported:  
11-Apr-18 15:38

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 8040901 - General Prep - Organics****LCS (8040901-BS1)**

Prepared: 09-Apr-18 Analyzed: 10-Apr-18

GRO C6-C10	216	10.0	mg/kg	200		108	76.5-133		
DRO >C10-C28	229	10.0	mg/kg	200		114	72.9-138		
Total TPH C6-C28	445	10.0	mg/kg	400		111	78-132		
Surrogate: 1-Chlorooctane	47.2		mg/kg	50.0		94.4	41-142		
Surrogate: 1-Chlorooctadecane	46.8		mg/kg	50.0		93.6	37.6-147		

**LCS Dup (8040901-BS1)**

Prepared: 09-Apr-18 Analyzed: 10-Apr-18

GRO C6-C10	204	10.0	mg/kg	200		102	76.5-133	5.65	20.6
DRO >C10-C28	206	10.0	mg/kg	200		103	72.9-138	10.2	20.6
Total TPH C6-C28	411	10.0	mg/kg	400		103	78-132	7.98	18
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.2	41-142		
Surrogate: 1-Chlorooctadecane	46.9		mg/kg	50.0		93.7	37.6-147		

**Batch 8040902 - General Prep - Organics****Blank (8040902-BLK1)**

Prepared: 09-Apr-18 Analyzed: 10-Apr-18

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	46.0		mg/kg	50.0		92.0	41-142		
Surrogate: 1-Chlorooctadecane	42.6		mg/kg	50.0		85.1	37.6-147		

**LCS (8040902-BS1)**

Prepared: 09-Apr-18 Analyzed: 10-Apr-18

GRO C6-C10	211	10.0	mg/kg	200		106	76.5-133		
DRO >C10-C28	178	10.0	mg/kg	200		89.1	72.9-138		
Total TPH C6-C28	389	10.0	mg/kg	400		97.4	78-132		
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.1	41-142		
Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.8	37.6-147		

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**Analytical Results For:**

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

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

Reported:  
11-Apr-18 15:38

**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 8040902 - General Prep - Organics****LCS Dup (8040902-BSD1)**

Prepared: 09-Apr-18 Analyzed: 10-Apr-18

GRO C6-C10	222	10.0	mg/kg	200		111	76.5-133	4.74	20.6	
DRO >C10-C28	203	10.0	mg/kg	200		102	72.9-138	13.2	20.6	
Total TPH C6-C28	425	10.0	mg/kg	400		106	78-132	8.71	18	
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	41-142			
Surrogate: 1-Chlorooctadecane	49.8		mg/kg	50.0		99.7	37.6-147			

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**Analytical Results For:**

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

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

Reported:  
11-Apr-18 15:38

**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 B804052 - General Prep - Wet Chem****Blank (B804052-BLK1)**

Prepared &amp; Analyzed: 06-Apr-18

Chloride	ND	10.0	mg/kg wet							
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**LCS (B804052-BS1)**

Prepared &amp; Analyzed: 06-Apr-18

Chloride	229	10.0	mg/kg wet	250		91.6	85-115			
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**LCS Dup (B804052-BSD1)**

Prepared &amp; Analyzed: 06-Apr-18

Chloride	229	10.0	mg/kg wet	250		91.5	85-115	0.170	20	
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**Batch B804053 - General Prep - Wet Chem****Blank (B804053-BLK1)**

Prepared &amp; Analyzed: 06-Apr-18

Chloride	ND	10.0	mg/kg wet							
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**LCS (B804053-BS1)**

Prepared &amp; Analyzed: 06-Apr-18

Chloride	227	10.0	mg/kg wet	250		90.9	85-115			
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**LCS Dup (B804053-BSD1)**

Prepared &amp; Analyzed: 06-Apr-18

Chloride	228	10.0	mg/kg wet	250		91.4	85-115	0.597	20	
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### Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

Page 47 of 50



# ORDINAL LABORATORIES

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

Page 1 of 4

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Trinity Oilfield Services & Rentals, LLC										P.O. #:		ANALYSIS REQUEST																					
Project Manager: Ben J. Arguilo										Compan:		Trinity																					
Address: P.O. Box 2587										Attn:																							
City: Hobbs										State: NM		Zip: 88241																					
Phone #: (575)390-7208										Fax #:		Address:																					
Project #:										Project Owner: Cambrian		City:																					
Project Name: Dorstate SWD										State:		Zip:																					
Project Location: Eddy Co., NM										Phone #:																							
Sample Name: Tristan Payne										Fax #:																							
FOR LAB USE ONLY										G (G)RAB OR (C)OMP.		PRESERV		SAMPLING																			
Lab I.D. Sample I.D.										# CONTAINERS		MATRIX		DATE		TIME																	
1										SP-1 @ 1'		G 1		X		3/29/18		1000		X		X											
2										SP-1 @ 5'		G 1		X		3/29/18		1200		X		X											
3										SP-1 @ 9'		G 1		X		3/29/18		1450		X		X											
4										SP-2 @ 1'		G 1		X		3/29/18		1300		X		X											
5										SP-3 @ 1'		G 1		X		3/29/18		1340		X		X											
6										SP-4 @ 1'		G 1		X		4/2/18		1030		X		X											
7										SP-4 @ 3'		G 1		X		4/2/18		1100		X		X											
8										SP-4 @ 5'		G 1		X		4/2/18		1130		X		X											
9										SP-4 @ 6'		G 1		X		4/2/18		1200		X		X											
10										SP-5 @ 1'		G 1		X		4/2/18		1300		X		X											
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Relinquished By: [Signature]										Date: 4/4/18		Received By: [Signature]		Phone Result: [ ] Yes [ ] No		Add'l Phone #:																	
Relinquished By: [Signature]										Time: 4:30pm		Received By: [Signature]		Fax Result: [ ] Yes [ ] No		Add'l Fax #:																	
Delivered By: (Circle One) #75										Sample Condition		CHECKED BY: [Signature]																					
Cool - Intact [ ] Yes [ ] No										Initials																							
Please e-mail results to ben@trinityoilfieldservices.com & todd@trinityoilfieldservices.com																																	





## ARDINAL LABORATORIES

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 4

Company Name: Trinity Oilfield Services & Rentals, LLC		P.O. #: <b>BILL TO</b>		ANALYSIS REQUEST									
Project Manager: Ben J. Arguilo		Company: Trinity											
Address: P.O. Box 2587		Attn:											
City: Hobbs		State: NM Zip: 88241											
Phone #: (575)390-7208		Address:											
Project #:		City:											
Project Name: Dorstate SWD		State: Zip:											
Project Location: Eddy Co., NM		Phone #:											
Sampler Name: Tristian Payne		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:												ICE / COOL
11	SP-5 @ 3'	G	1	X								4/2/18	1315	X	X	X						
12	SP-6 @ 1'	G	1	X								4/2/18	1430	X	X	X						
13	SP-7 @ 1'	G	1	X								4/2/18	1450	X	X	X						
14	SP-8 @ 1'	G	1	X								4/3/18	0900	X	X	X						
15	SP-9 @ 1'	G	1	X								4/3/18	0910	X	X	X						
16	SP-10 @ 1'	G	1	X								4/3/18	0915	X	X	X						
17	SP-11 @ 1'	G	1	X								4/3/18	0920	X	X	X						
18	SP-12 @ 1'	G	1	X								4/3/18	0930	X	X	X						
19	SP-12 @ 3'	G	1	X								4/3/18	1010	X	X	X						
20	SP-12 @ 5'	G	1	X								4/3/18	1020	X	X	X						

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Reinquired By: <i>[Signature]</i>	Date: 4-4-18	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: <i>[Blank]</i>
Reinquired By: <i>[Signature]</i>	Date: 4-13-18	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: <i>[Blank]</i>
Reinquired By: <i>[Signature]</i>	Date: <i>[Blank]</i>	Received By: <i>[Signature]</i>	REMARKS:	

Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>
Sampler - UPS - Bus - Other: 5.12/5.15	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Please e-mail results to ben@trinityoilfieldservices.com & todd@trinityoilfieldservices.com



Page 49 of 50



**ARDINAL LABORATORIES**

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

Page 3 of 4

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Trinity Oilfield Services & Rentals, LLC						P.O. #:		ANALYSIS REQUEST																							
Project Manager: Ben J. Arguijo						Compan		Trinity																							
Address: P.O. Box 2587						Attn:																									
City: Hobbs						State: NM Zip: 88241																									
Phone #: (575)390-7208						Fax #:																									
Project #:						Project Owner: Cambrian		City:		State:		Zip:																			
Project Name: Dorstate SWD						State:		Phone #:		Fax #:																					
Project Location: Eddy Co., NM						Date:																									
Sampler Name: Tristan Payne						Matrix		PRESERV		SAMPLING																					
FOR LAB USE ONLY						(G)RAB OR (C)OMP.		# CONTAINERS		DATE		TIME																			
Lab I.D.						Sample I.D.		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :							
H800935						SP-13 @ 1'		G 1		X		4/3/18		1040		X		X		X		X		X							
A1						SP-14 @ 1'		G 1		X		4/3/18		1045		X		X		X		X		X							
B2						SP-15 @ 1'		G 1		X		4/3/18		1050		X		X		X		X		X							
B3						SP-16 @ 1'		G 1		X		4/3/18		1055		X		X		X		X		X							
B4						SP-17 @ 1'		G 1		X		4/3/18		1100		X		X		X		X		X							
B5						SP-18 @ 1'		G 1		X		4/3/18		1105		X		X		X		X		X							
B6						SP-19 @ 1'		G 1		X		4/3/18		1110		X		X		X		X		X							
B7						SP-20 @ 1'		G 1		X		4/3/18		1115		X		X		X		X		X							
B8						SP-21 @ 1'		G 1		X		4/3/18		1120		X		X		X		X		X							
B9						SP-22 @ 1'		G 1		X		4/3/18		1125		X		X		X		X		X							
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Relinquished By:						Date: 4/4/18		Received By:		Date: 4/30/18		Time: 4:30 PM		CHECKED BY: (Initials)																	
Relinquished By:						Date:		Received By:		Date:		Time:		Sample Condition																	
Delivered By: (Circle One)						Cool Intact		Yes Yes		No No		No No		No No																	
Sampler - UPS - Bus - Other: 5.22/5.15e						Sample Condition		Cool Intact		Yes Yes		No No		No No																	
Please e-mail results to ben@trinityoilfieldservices.com & todd@trinityoilfieldservices.com																															



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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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---

April 30, 2018

BEN ARGUIJO

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: DORSTATE SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/19/18 16:30.

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/09/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CC		

**Sample ID: SP- 29 @ 1' (H801094-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1310	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 29 @ 8' (H801094-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/25/2018	ND	432	108	400	3.77	

**Sample ID: SP- 30 @ 1' (H801094-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2018	ND	2.00	100	2.00	0.705	
Toluene*	<0.050	0.050	04/23/2018	ND	2.04	102	2.00	1.64	
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	104	2.00	1.34	
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.08	101	6.00	0.503	
Total BTEX	<0.300	0.300	04/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	04/25/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/09/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 30 @ 1' (H801094-03)**

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	<10.0	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	04/23/2018	ND					
Surrogate: 1-Chlorooctane	82.7 %	41-142							
Surrogate: 1-Chlorooctadecane	74.7 %	37.6-147							

**Sample ID: SP- 30 @ 6' (H801094-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 31 @ 1' (H801094-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 31 @ 10' (H801094-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	04/25/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/10/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 32 @ 1' (H801094-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 32 @ 10' (H801094-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 33 @ 1' (H801094-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4240	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 33 @ 10' (H801094-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 34 @ 1' (H801094-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7100	16.0	04/25/2018	ND	432	108	400	3.77	QM-07	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/10/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 34 @ 10' (H801094-12)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1540</b>	16.0	04/25/2018	ND	432	108	400	3.77	

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/10/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 35 @ 1' (H801094-13)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2018	ND	2.13	106	2.00	2.90	
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39	
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60	
Total BTEx	<0.300	0.300	04/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8200	16.0	04/25/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	97.7	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	38.0	10.0	04/23/2018	ND					

Surrogate: 1-Chlorooctane 85.7 % 41-142

Surrogate: 1-Chlorooctadecane 87.2 % 37.6-147

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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  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/10/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 35 @ 10' (H801094-14)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>4300</b>	16.0	04/25/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/11/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 36 @ 1' (H801094-15)**

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2018	ND	2.13	106	2.00	2.90	
<b>Toluene*</b>	<b>0.062</b>	0.050	04/23/2018	ND	2.09	104	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39	
<b>Total Xylenes*</b>	<b>1.12</b>	0.150	04/23/2018	ND	6.32	105	6.00	4.60	
<b>Total BTEX</b>	<b>1.18</b>	0.300	04/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 139 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>12000</b>	16.0	04/25/2018	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10*</b>	<b>38.1</b>	10.0	04/23/2018	ND	213	107	200	0.870	
<b>DRO &gt;C10-C28*</b>	<b>1190</b>	10.0	04/23/2018	ND	209	104	200	2.13	
<b>EXT DRO &gt;C28-C36</b>	<b>216</b>	10.0	04/23/2018	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

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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  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/11/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 36 @ 10' (H801094-16)**

BTEx 8021B		mg/kg		Analyzed By: MS				I-02	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/27/2018	ND	2.00	100	2.00	1.95	QM-07
Toluene*	<0.050	0.050	04/27/2018	ND	1.98	98.8	2.00	2.40	
Ethylbenzene*	<0.050	0.050	04/27/2018	ND	1.93	96.3	2.00	1.74	
Total Xylenes*	<0.150	0.150	04/27/2018	ND	5.91	98.6	6.00	1.54	
Total BTEX	<0.300	0.300	04/27/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 72-148

Chloride, SM4500Cl-B			mg/kg					Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	04/25/2018	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS				I-03	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/27/2018	ND	208	104	200	0.405	
DRO >C10-C28*	19.2	10.0	04/27/2018	ND	204	102	200	0.173	
EXT DRO >C28-C36	<10.0	10.0	04/27/2018	ND					

Surrogate: 1-Chlorooctane 88.7 % 41-142

Surrogate: 1-Chlorooctadecane 76.1 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/11/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 37 @ 1' (H801094-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	04/25/2018	ND	432	108	400	3.77	

**Sample ID: SP- 37 @ 10' (H801094-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4560	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 38 @ 1' (H801094-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	04/25/2018	ND	432	108	400	3.77	

**Sample ID: SP- 38 @ 10' (H801094-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1650	16.0	04/25/2018	ND	432	108	400	3.77		

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**Analytical Results For:**

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 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/11/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 39 @ 4' (H801094-21)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2018	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48		
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39		
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60		
Total BTX	<0.300	0.300	04/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15600	16.0	04/25/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	<10.0	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	04/23/2018	ND					

Surrogate: 1-Chlorooctane 87.6 % 41-142

Surrogate: 1-Chlorooctadecane 82.9 % 37.6-147

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**Analytical Results For:**

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 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/11/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 39 @ 10' (H801094-22)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7000	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 40 @ 1' (H801094-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 40 @ 10' (H801094-24)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	04/25/2018	ND	432	108	400	3.77	

**Sample ID: SP- 41 @ 1' (H801094-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	04/25/2018	ND	432	108	400	3.77	

**Sample ID: SP- 41 @ 5' (H801094-26)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/25/2018	ND	432	108	400	3.77	

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**Analytical Results For:**

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 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/12/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 42 @ 1' (H801094-27)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2018	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48		
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39		
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60		
Total BTEX	<0.300	0.300	04/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2600	16.0	04/25/2018	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	<10.0	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	04/23/2018	ND					

Surrogate: 1-Chlorooctane 86.9 % 41-142

Surrogate: 1-Chlorooctadecane 81.7 % 37.6-147

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/12/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 42 @ 6' (H801094-28)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	04/25/2018	ND	432	108	400	3.77	

**Sample ID: SP- 43 @ 1' (H801094-29)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 43 @ 10' (H801094-30)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	04/25/2018	ND	432	108	400	3.77		

**Sample ID: SP- 44 @ 1' (H801094-31)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	04/25/2018	ND	416	104	400	3.77	QM-07	

**Sample ID: SP- 44 @ 7' (H801094-32)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/25/2018	ND	416	104	400	3.77	

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TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/12/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 45 @ 1' (H801094-33)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	04/25/2018	ND	416	104	400	3.77		

**Sample ID: SP- 45 @ 3' (H801094-34)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	04/25/2018	ND	416	104	400	3.77		

**Sample ID: SP- 46 @ 1' (H801094-35)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/25/2018	ND	416	104	400	3.77	

**Sample ID: SP- 47 @ 1' (H801094-36)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	04/25/2018	ND	416	104	400	3.77		

**Sample ID: SP- 47 @ 10' (H801094-37)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	04/25/2018	ND	416	104	400	3.77		

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/13/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 48 @ 1' (H801094-38)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2018	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48		
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39		
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60		
Total BTEx	<0.300	0.300	04/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	04/25/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	<10.0	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	04/23/2018	ND					

Surrogate: 1-Chlorooctane 84.5 % 41-142

Surrogate: 1-Chlorooctadecane 80.6 % 37.6-147

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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/13/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 48 @ 10' (H801094-39)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	04/25/2018	ND	416	104	400	3.77		

**Sample ID: SP- 49 @ 1' (H801094-40)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	04/25/2018	ND	416	104	400	3.77	

**Sample ID: SP- 49 @ 10' (H801094-41)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	04/25/2018	ND	416	104	400	3.77		

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 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/13/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 50 @ 1' (H801094-42)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/23/2018	ND	2.13	106	2.00	2.90	
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48	
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39	
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60	
Total BTEx	<0.300	0.300	04/23/2018	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	04/25/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	67.8	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	58.0	10.0	04/23/2018	ND					

Surrogate: 1-Chlorooctane 67.6 % 41-142

Surrogate: 1-Chlorooctadecane 64.5 % 37.6-147

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/13/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 50 @ 10' (H801094-43)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	04/25/2018	ND	416	104	400	3.77		

**Sample ID: SP- 51 @ 1' (H801094-44)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	04/25/2018	ND	416	104	400	3.77		

**Sample ID: SP- 51 @ 10' (H801094-45)**

Chloride, SM4500Cl-B		mg / kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	04/25/2018	ND	416	104	400	3.77	

**Sample ID: SP- 52 @ 1' (H801094-46)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	04/25/2018	ND	416	104	400	3.77	

**Sample ID: SP- 52 @ 10' (H801094-47)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	04/25/2018	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/13/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 53 @ 1' (H801094-48)**

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/23/2018	ND	2.13	106	2.00	2.90		
Toluene*	<0.050	0.050	04/23/2018	ND	2.09	104	2.00	2.48		
Ethylbenzene*	<0.050	0.050	04/23/2018	ND	2.07	103	2.00	4.39		
Total Xylenes*	<0.150	0.150	04/23/2018	ND	6.32	105	6.00	4.60		
Total BTEX	<0.300	0.300	04/23/2018	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	04/25/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/23/2018	ND	213	107	200	0.870	
DRO >C10-C28*	13.8	10.0	04/23/2018	ND	209	104	200	2.13	
EXT DRO >C28-C36	<10.0	10.0	04/23/2018	ND					

Surrogate: 1-Chlorooctane 84.3 % 41-142

Surrogate: 1-Chlorooctadecane 83.4 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC  
 BEN ARGUIJO  
 P. O. BOX 2587  
 HOBBS NM, 88241  
 Fax To: NONE

Received:	04/19/2018	Sampling Date:	04/13/2018
Reported:	04/30/2018	Sampling Type:	Soil
Project Name:	DORSTATE SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	PERMIAN WATER SOLUTIONS - EDDY CO		

**Sample ID: SP- 53 @ 10' (H801094-49)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AC**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>784</b>	16.0	04/25/2018	ND	416	104	400	3.77	

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### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
I-03	This result was extracted outside of the EPA recommended holding time of 14 days.
I-02	This result was analyzed outside of the EPA recommended holding time.
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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Page 1 of 5

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]





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Page 2 of 5

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

<b>Company Name:</b> Trinity Oilfield Services & Rentals, LLC				<b>P.O. #:</b>				
<b>Project Manager:</b> Ben J. Argujio				<b>Compan:</b>	Trinity			
<b>Address:</b> P.O. Box 2587				<b>Attn:</b>				
<b>City:</b> Hobbs				<b>State:</b> NM	<b>Zip:</b>	88241		
<b>Phone #:</b> (575)390-7208				<b>Fax #:</b>				
<b>Project #:</b>				<b>Project Owner:</b>	Permian Water Solutions			
<b>Project Name:</b> Dorstate SWD				<b>State:</b>	<b>Zip:</b>			
<b>Project Location:</b> Eddy, NM				<b>Phone #:</b>				
<b>Sample Name:</b> Tristan Payne				<b>Fax #:</b>				

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV	SAMPLING DATE	TIME	TPH (8015M)	BTEX (8021B)	Chloride (300)								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :														ACID/BASE:
H801094																							
11	SP-34 @ 1'	G	1	X								4/10/18	1400			X							
12	SP-34 @ 10'	G	1	X								4/10/18	1445			X							
13	SP-35 @ 1'	G	1	X								4/10/18	1450	X	X	X							
14	SP-35 @ 10'	G	1	X								4/10/18	1535			X							
15	SP-36 @ 1'	G	1	X								4/11/18	1015	X	X	X							
16	SP-36 @ 10'	G	1	X								4/11/18	1100	X	X	X							
17	SP-37 @ 1'	G	1	X								4/11/18	1105			X							
18	SP-37 @ 10'	G	1	X								4/11/18	1150			X							
19	SP-38 @ 1'	G	1	X								4/11/18	1350			X							
20	SP-38 @ 10'	G	1	X								4/11/18	1435			X							

\* added as per Ben. 4/12/18 Ck





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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 3 of 5

Company Name: Trinity Oilfield Services & Rentals, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Ben J. Arguilo		Compan: Trinity					
Address: P.O. Box 2587		Attn:					
City: Hobbs		Address:					
Phone #: (575)390-7208		City:					
Fax #: (575)390-7208		State: Zip:					
Project #:		Project Owner: Permian Water Solutions					
Project Name: Dorstate SMD		State: Zip:					
Project Location: Eddy, NM		Phone #:					
Sampler Name: Tristan Payne		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:												ICE / COOL
21	SP-39 @ 4'	G	1	X								4/11/18	1300	X	X	X						
22	SP-39 @ 10'	G	1	X								4/11/18	1345			X						
23	SP-40 @ 1'	G	1	X								4/11/18	1440			X						
24	SP-40 @ 10'	G	1	X								4/11/18	1525			X						
25	SP-41 @ 1'	G	1	X								4/12/18	1030			X						
26	SP-41 @ 5'	G	1	X								4/12/18	1050			X						
27	SP-42 @ 1'	G	1	X								4/12/18	1100	X	X	X						
28	SP-42 @ 6'	G	1	X								4/12/18	1125			X						
29	SP-43 @ 1'	G	1	X								4/12/18	1135			X						
30	SP-43 @ 10'	G	1	X								4/12/18	1220			X						

Relinquished By: <i>[Signature]</i>	Date: 4/19/18	Time: 4:30	Received By: <i>[Signature]</i>
Delivered By: (Circle One) <i>75</i>	Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <i>[Signature]</i>	REMARKS:
Sampler - UPS - Bus - Other: <i>1.10 / 1.05</i>	Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476		





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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 5

Company Name: Trinity Oilfield Services & Rentals, LLC		P.O. #: <b>BILL TO</b>		ANALYSIS REQUEST	
Project Manager: Ben J. Arguilo		Company: Trinity			
Address: P.O. Box 2587		Attn:			
City: Hobbs		Address:			
Phone #: (575)390-7208		City:			
Fax #: (575)393-2326		State: Zip:			
Project #: <b>Project Owner: Permian Water Solutions</b>		Phone #:			
Project Name: Dorstate SMD		Fax #:			
Project Location: Eddy, NM					
Sampler Name: Tristan Payne					

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 :					
31	SP-44 @ 1'	G	1	X						4/12/18	1300			
32	SP-44 @ 7'	G	1	X						4/12/18	1330			
33	SP-45 @ 1'	G	1	X						4/12/18	1335			
34	SP-45 @ 3'	G	1	X						4/12/18	1345			
35	SP-46 @ 1'	G	1	X						4/12/18	1440			
36	SP-47 @ 1'	G	1	X						4/13/18	1000			
37	SP-47 @ 10'	G	1	X						4/13/18	1045			
38	SP-48 @ 1'	G	1	X						4/13/18	1050	X		
39	SP-48 @ 10'	G	1	X						4/13/18	1135	X		
40	SP-49 @ 1'	G	1	X						4/13/18	1140	X		

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Relinquished By: <i>[Signature]</i>	Date: _____	Received By: <i>[Signature]</i>	Date: _____
Time: _____	Time: _____	Time: _____	Time: _____

Delivered By: (Circle One) <b>#175</b>	Sample Condition <b>CHECKED BY: [Signature]</b>
Sampler - UPS - Bus - Other: <b>1.12 / 1.05c</b>	Cool / Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

REMARKS:

Please e-mail results to ben@trinityoilfieldservices.com & todd@trinityoilfieldservices.com

FORM-006  
Revision 1.0

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





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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5

Company Name: Trinity Oilfield Services & Rentals, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Ben J. Arguilo		Compan: Trinity					
Address: P.O. Box 2587		Attn:					
City: Hobbs		State: NM Zip: 88241					
Phone #: (575)390-7208		Fax #:					
Project #:		Project Owner: Permian Water Solutions		City:			
Project Name: Dorstate SWD		State:		Zip:			
Project Location: Eddy, NM		Phone #:					
Sampler Name: Tristan Payne		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:						ICE / COOL
41	SP-49 @ 10'	G	1	X								4/13/18	1225			X
42	SP-50 @ 1'	G	1	X								4/13/18	1230	X	X	X
43	SP-50 @ 10'	G	1	X								4/13/18	1315		X	
44	SP-51 @ 1'	G	1	X								4/13/18	1320		X	
45	SP-51 @ 10'	G	1	X								4/13/18	1405		X	
46	SP-52 @ 1'	G	1	X								4/13/18	1410		X	
47	SP-52 @ 10'	G	1	X								4/13/18	1455		X	
48	SP-53 @ 1'	G	G	X								4/13/18	1500	X	X	X
49	SP-53 @ 10'	G	G	X								4/13/18	1545		X	

Relinquished By:	Date: 4/19/18	Received By:	Date: 4/19/18
Relinquished By:	Time: 4:30	Received By:	Time:

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other: 1.12/1.050	Cool/Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Signature)

Please e-mail results to ben@trinityoilfieldservices.com & todd@trinityoilfieldservices.com

FORM-006  
Revision 1.0

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

**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 111644

**CONDITIONS**

Operator: Permian Water Solutions, LLC PO Box 2106 Midland, TX 79702	OGRID: 373626
	Action Number: 111644
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. The release area needs confirmation samples representing no more than 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. If the fluids from the release entered the old legacy reserve pit, the spill and the legacy reserve pit will need to be cleaned up. The liners are approved with the stipulation that as much of the contaminated soil is safely removed as possible or the vertical delineation meets the strictest closure criteria standards. The 3 borings being completed as temporary monitoring wells will allow Apache to verify that there was no groundwater impact. It is important that the OCD have one boring in the release area to compare to the "Up Gradient Boring Location" and the "Down Gradient Boring Location". The borings will need to be safely drilled and purged.	6/27/2023