Received by OCI	D: 5/27/2022 1:51:03	<u>PM</u>						Page 1 of
		S	ITE INFORM	MATION				
	Report Type	e: Work Pl	an NLWJ10	0853866	2 / NPAC	0633335	5042	
General Site I	nformation:							
Site:		Rice SWD F	#029					
Company:		Permian Wa	ter Solutions LL					
	nship and Range	Unit F	Sec. 29	T 18S	R 38E			
Lease Number	er:							
County:		Lea County						
GPS:			32.7205276			-103.1	735687	
Surface Own								
Mineral Owner Directions:	er:		ion W Mahan Dr &					
			- -					
Release Data								
Date Released			11/11/2006					
Type Release.			Produced Water					
Source of Con			Broke Connection					
Fluid Released Fluids Recove		60 bbs water	80 bbls water					
Official Comn		loo pps water	ou dos water					
Name:	Dusty McInturff				Clair Gonz	ales		
Company:	Permian Water So	olutions			Tetra Tech			
Address:	PO BOX 2106				901 W. Wa	all St.		
					Ste 100			-
City:	Midland, Texas, 7	9702			Midland, To	exas, 79701		
					1			

Site Characterization	
Depth to Groundwater:	55' bgs
Karst Potential:	Low

(432) 682-4559

clair.gonzales@tetratech.com

Recommended Remedial Action Levels (RRALs)							
Benzene	Total BTEX	TPH (GRO+DRO)	TPH (GRO+DRO+MRO)	Chlorides			
10 mg/kg	50 mg/kg	1,000 mg/kg	2,500 mg/kg	10,000 mg/kg			

Phone number:

Fax: Email: 432-634-7865

dmcinturff@dufrane.com

May 25, 2022

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

RE: Work Plan
Permian Water Solutions
Rice SWD F #029
Lea County, New Mexico
NLWJ1008538662
NPAC0633335042

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by Permian Water Solutions (Permian Water) to assess a release that occurred at the Rice SWD F #029, Unit F, Section 29, Township 18 South, Range 38 East, Lea County, New Mexico (Site). The spill site coordinates are 32.7205276°, -103.1735687°. The site location is shown on **Figures 1 and 2**.

Background

According to the State of New Mexico C-141 Initial Report, the release at the Rice SWD F #029 was caused by a broke connection at the load line, causing a release of 80 bbls of produced water. Additionally, approximately 60 bbls of water was recovered. On November 11, 2006, the release was discovered and reported to the New Mexico Oil Conservation Division (NMOCD). The incident report is shown in **Appendix A**.

Site Characterization

Significant Water Features

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

Significant Boundaries

According to Google Earth US Government City Boundaries and US School Districts, the lateral extents of the release were not within an incorporated municipal boundaries, defined

municipal fresh water well field, or a school district. Additionally, there were no occupied permanent residences, schools, hospitals, institution, or churches located within the specified distances of the lateral extents of the release.

Groundwater Review

Groundwater research was completed for the site through the USGS (United States Geological Survey) National Water Information System and New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System. Groundwater research conducted through these two resources, show the three closest water wells within a mile radius of the Site. The well reported on the NMOSE Water Rights Reporting System reports a total depth of 120 ft bgs and measured water level of 55 ft bgs and is approximately 0.13 miles of the Site. The well reported on the USGS National Water Information System reports a depth to groundwater of 55.92 ft bgs and is approximately 0.76 miles of the Site. The groundwater information is shown in **Appendix B**.

Distance from Site	Date of Data	Resource of Information	Depth of Well	Depth to Water
0.13 Miles	8/12/2002	NMOSE	120'	55'
0.76 Miles	3/20/1986	USGS	N/A	55.92'

Regulatory

A risk-based evaluation was performed for the site following the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases, updated August 14, 2018. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the site characterization, beyond the top 4.0' of soil, for TPH is 2,500 mg/kg (GRO + DRO + ORO) and 1,000 mg/kg (GRO + DRO). Additionally, based on the site characterization, beyond the top 4.0' of soil, for chlorides is 10,000 mg/kg.

Site Assessment Activities

Tetra Tech conducted site assessment activities from on May 6, 2022. A total of three (3) auger holes (AH-1 through AH-3) were installed to 2.0 ft bgs, and 4 horizontals (H-1 through H-4) were installed to total depths of 0.5 ft bgs to attempt to assess the impacted the area and provide current data. The observed impact and sample locations are shown on **Figure 3.**

The samples were submitted to Xenco Laboratory in Midland, Texas to be analyzed for TPH method 8015 modified, BTEX method 8021B, and Chloride by EPA Method 300.0. The analytical results are summarized in **Table 1** and the analytical laboratory reports are included in **Appendix C**.

Based on laboratory data from the May 6, 2022 sampling event, auger holes (AH-1 through AH-3) indicated benzene and total BTEX concentrations below laboratory detection limits. Auger holes (AH-1 through AH-3) indicated chloride concentrations above RRALs, with reported concentrations ranging from 809 mg/kg through 1,670 mg/kg, at depths raning from surface to 2.0 ft bgs. Auger hole (AH-2) indicated TPH concentations above RRALs, with reported concentrations of 254 mg/kg and 218 mg/kg, at depths of surface to 2.0 ft bgs. The remaining auger holes (AH-1 and AH-3) indicated TPH concentrations below laboratory detection limits. Additionally, all horizontals (H-1 through H-4) indicated benzene, BTEX, and chloride concentrations below RRALs. However, all horizontals (H-1 through H-4) indicated TPH concentrations above RRALS, with reported concentrations of 175 mg/kg to 300 mg/kg, at total depths of 0.5 ft bgs.

Work Plan

Based on the information provided in the incident reports (NLWJ1008538662 / NPAC0633335042) and the data collected during the site assessment activities activities, Tetra Tech proposes to install trenches prior to remediation to vertically delineate the area of auger holes (AH-1 through AH-3) for chlorides and auger hole (AH-2) for TPH. Additionally, Tetra Tech will extend the horizontal samples due to exceeding TPH concentrations, to locate proper horizontal delineation. Once vertical and horizontal delineation is found, a remediation plan will be developed based off collected data.

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

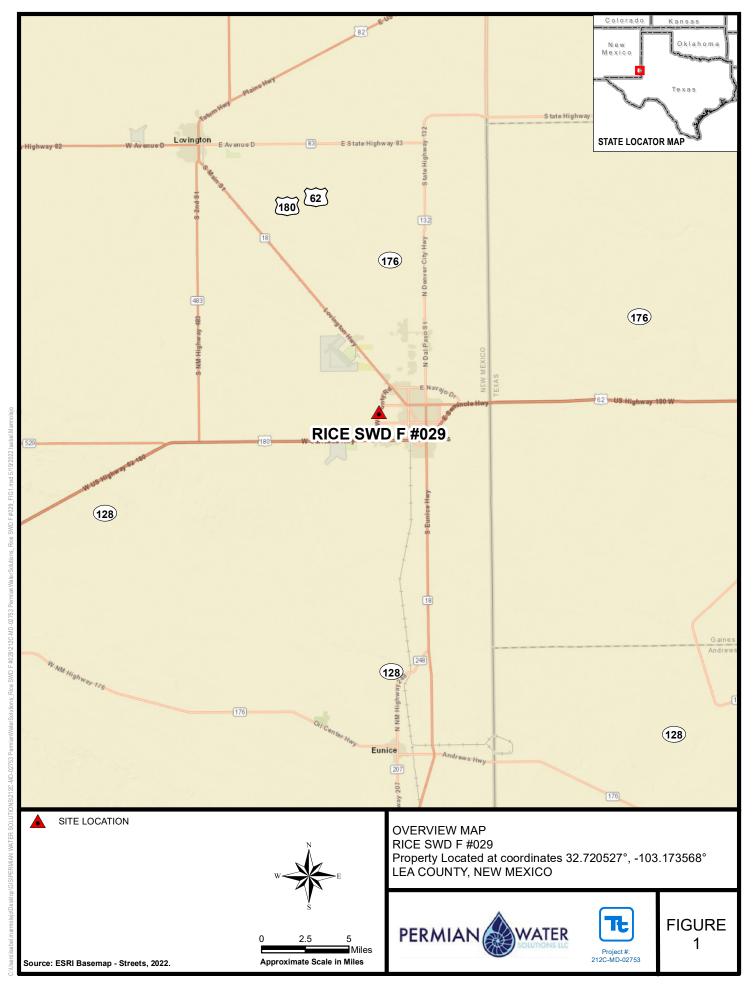
Respectfully submitted,

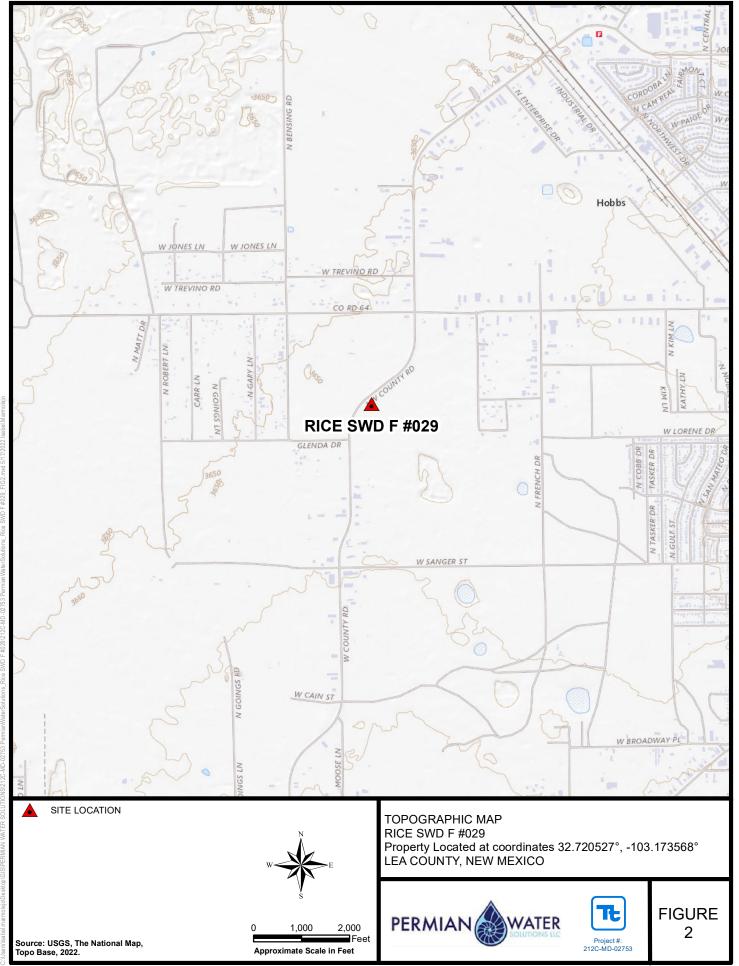
TETRA TECH

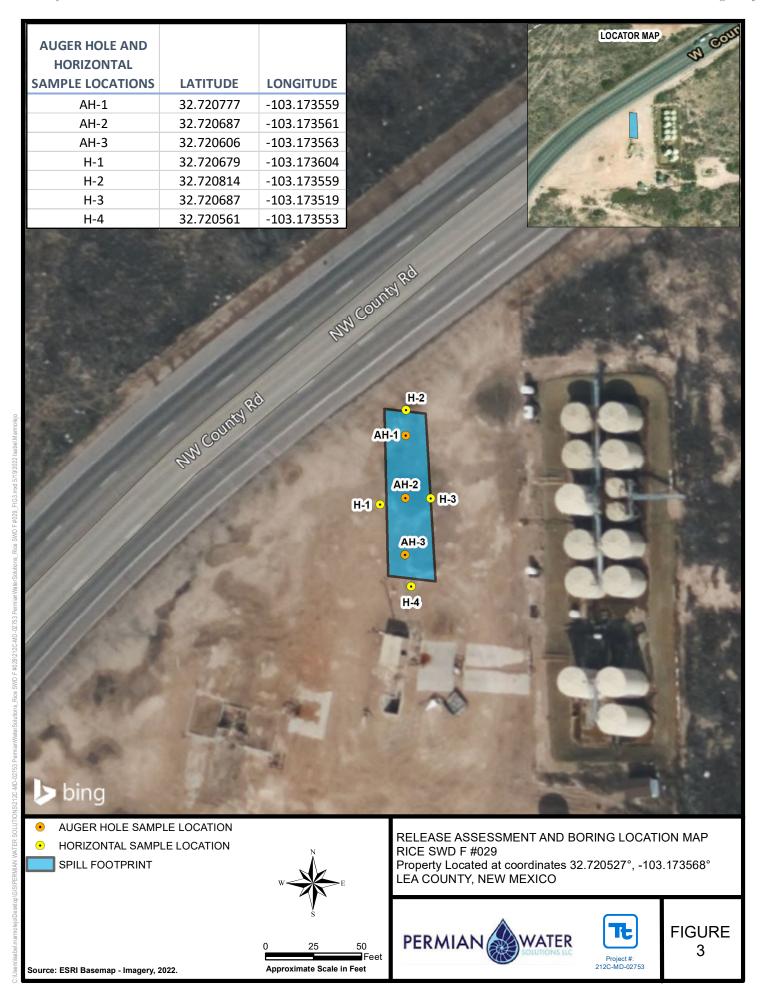
Brittany Long, Project Manager Clair Gonzales, P.G. Senior Project Manager



Figures









Tables

Received by OCD: 5/27/2022 1:51:03 PM

Table 1 **Permian Water Solutions** Rice SWD F #029 Lea County, New Mexico

	Sample	Sample	Soil	Status		TPH (m	g/kg)		_ , ,,		Ethlybenzene			Chloride
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	Benzene (mg/kg)	l oluene (mg/kg)	(mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	(mg/kg)
RRALs (Top 4.0' of Soil)								100 mg/kg	10 mg/kg				50 mg/kg	600 mg/kg
RRALs (Beyond Top 4.0' of Soil)					1,000	mg/kg		2,500 mg/kg	10 mg/kg				50 mg/kg	10,000 mg/kg
AH-1	5/6/2022	0-1.0	Χ		<50.0	67.1	<50.0	67.1	<0.00199	< 0.00199	<0.00199	<0.00398	<0.00398	1,600
All:1	5/6/2022	1.5-2.0	Χ	-	<49.8	<49.8	<49.8	<49.8	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	846
AH-2	5/6/2022	0-1.0	Χ	-	<50.0	197	56.7	254	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	346
АП-2	5/6/2022	1.5-2.0	Х	-	<49.9	165	52.6	218	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	809
AH-3	5/6/2022	0-1.0	Х	-	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	1,670
An-3	5/6/2022	1.5-2.0	Х	-	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	840
H-1	5/6/2022	0-0.5	Χ	-	<50.0	175	<50.0	175	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	430
H-2	5/6/2022	0-0.5	Х	-	<49.9	247	53.4	300	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	421
H-3	5/6/2022	0-0.5	Х	-	<50.0	227	<50.0	227	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	435
H-4	5/6/2022	0-0.5	Х	_	<50.0	284	<50.0	284	<0.00198	<0.00198	<0.00198	< 0.00396	<0.00396	424

RRALs (Recommended Remediation Action Levels) are based on NMOCD (New Mexico Oil Conservation Devision) Guidelines for Remediation of Leaks, Spills, and Releases. All screening values and results are presented in milligrams per kilogram (mg/kg)
Bolded cells represent a detected concentration above the respective screening value.

< = analyte was not detected above the respective sample detection limit

ft = feet below ground surface

(-) = not analyzed for respective constituent

TPH = total petroleum hydrocarbons

BTEX = benzene, toluene, ethylbenzene, xylene

Exceedance



Photographic Documentation

Permian Water Solutions Rice SWD F #029 Lea County, New Mexico



TETRA TECH



View of Impacted Area - View North



View of Impacted Area - View North

Permian Water Solutions Rice SWD F #029 Lea County, New Mexico







View of Impacted Area - View South



View of Impacted Area – View South



Appendix A

C-141 Document

SIGN-IN HELP Searches 🗸 Operator Data 🗸 Hearing Fee Application **OCD Permitting** Home > Searches > Incidents > Incident Details NLWJ1008538662 2006 MAJOR A OTH @ 30-025-12802 **General Incident Information** Quick Links · General Incident Information Site Name: Materials Well: [30-025-12802] RICE SWD F #029 Events Facility: [198688] CAMBRIAN MANAGEMENT LTD Operator: Associated Images Status: Closure Not Approved Severity: Major • Incident Files (0) Type: Other Surface Owner: Well Files (49) District: Hobbs Lea (25) New Searches Incident Location: F-29-18S-38E 1880 FNL 1745 FWL New Facility Search % 32.7205276,-103.1735687 NAD83 Lat/Long: • New Incident Search % Directions: New Operator Search ♥ New Pit Search ∜ New Spill Search ♥ • New Tank Search % Notes New Well Search ♥ Source of Referral: Industry Rep Action / Escalation: Referred to Environmental Inspector Resulted In Fire: Will or Has Reached Watercourse: Property Or Environmental Damage: Endangered Public Health: Fresh Water Contamination: **Contact Details** Contact Name: Contact Title: **Event Dates** Date of Discovery: 11/11/2006 OCD Notified of Release: 11/15/2018 Extension Date: Initial C-141 Received: Cancelled Date: Characterization Report Received: Characterization Report Approved: Remediation Plan Received: Remediation Plan Approved: Remediation Due: Closure Report Received: Closure Report Approved:

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Incidents Materials

Cause	Source	Material		Units			
oudoo			Unk.	Released	Recovered	Lost	
Equipment Failure	Other (Specify)	Produced Water		80	60	20	BBL

Incident Events

Date	Detail
03/26/2010	Load line connection broke spilling produced wtr. Areal 20'X 100'. PR#1131



SIGN-IN HELP

Searches 🗸 Operator Data 🗸 Hearing Fee Application **OCD Permitting** Home > Searches > Incidents > Incident Details NPAC0633335042 2006 MAJOR A SWS @ 30-025-12802 **General Incident Information** Quick Links · General Incident Information Site Name: Materials Well: [30-025-12802] RICE SWD F #029 Events [fPAC0633334726] Facility: [239926] EAGLE DISPOSAL LLC Operator: Associated Images Status: Closure Not Approved Severity: Major • Facility Files (0) Type: Produced Water Release Surface Owner: · Incident Files (0) District: Hobbs Lea (25) Well Files (49) Incident Location: F-29-18S-38E 1880 FNL 1745 FWL New Searches 32.7205276,-103.1735687 NAD83 Lat/Long: New Facility Search ♥ Directions: New Incident Search ♥ New Operator Search ♥ New Pit Search ♥ New Spill Search ♥ Notes New Tank Search ♥ Source of Referral: Industry Rep Action / Escalation: New Well Search ♥ Resulted In Fire: Will or Has Reached Watercourse: Property Or Environmental Damage: Endangered Public Health: Fresh Water Contamination: **Contact Details** Contact Name: Contact Title: **Event Dates** Date of Discovery: 11/11/2006 OCD Notified of Release: 11/15/2018 Extension Date: Initial C-141 Received: Cancelled Date: Characterization Report Received: Characterization Report Approved: Remediation Plan Received: Remediation Plan Approved: Remediation Due: Closure Report Received: Closure Report Approved: Compositional Analysis of Vented and/or Flared Natural Gas No Compositional Analysis Found Incidents Materials Cause Source Material Units Released Unk. Recovered Lost Pipeline (Any) Produced Water 80 60 20 BBL Incident Events 11/29/2006 C-141: Broken connection

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					elephone			
Contact email					Incident # (assigned by OCD)			
Contact mail	Contact mailing address							
			Location	of Release S	ource			
Latitude Longitude								
			(NAD 83 in dec	cimal degrees to 5 decir	nal places)			
Site Name				Site Type				
Date Release	Discovered			API# (if app	olicable)			
Unit Letter	Section	Township	Range	Cour	nts.	1		
Omit Letter	Section	Township	Range	Cour	ity			
Surface Owner	r: State	☐ Federal ☐ Tr	ibal Private (1	Name:)		
			Natura and	d Volume of 1	Palanca			
Crude Oil		(s) Released (Select al Volume Release		calculations or specific	Volume Reco	volumes provided below)		
Produced		Volume Release	` '		Volume Recovered (bbls)			
Troduced	vv ater		ion of total dissol	ved solids (TDS)	Yes No			
			water >10,000 mg) LI Yes LINO			
Condensa	te	Volume Release	d (bbls)		Volume Reco	vered (bbls)		
Natural G	as	Volume Release	d (Mcf)		Volume Reco	vered (Mcf)		
Other (des	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weight Recovered (provide units)			
Cause of Rele	ease							
<u> </u>								

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Page	<i>18</i>	of	6	6

Incident ID

ge 2	Oil Conservation Division	District RP	I					
		Facility ID						
		Application ID						
Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?							
Yes No								
If YES, was immediate no	otice given to the OCD? By whom? To whom? Who	en and by what means (phone, er	mail, etc)?					
	Initial Response	e						
The responsible	party must undertake the following actions immediately unless they	could create a safety hazard that would	! result in injury					
The source of the rele	ease has been stopped.							
	as been secured to protect human health and the environment	onment.						
Released materials ha	ave been contained via the use of berms or dikes, abso	orbent pads, or other containment	t devices.					
All free liquids and re	ecoverable materials have been removed and managed	d appropriately.						
If all the actions described	d above have <u>not</u> been undertaken, explain why:							
D 10.15.20.0 D (4) ND	54.C.1. 11		2 1 10 11 11					
	IAC the responsible party may commence remediation a narrative of actions to date. If remedial efforts have							
	nt area (see 19.15.29.11(A)(5)(a) NMAC), please attac							
	rmation given above is true and complete to the best of my							
	required to report and/or file certain release notifications an ment. The acceptance of a C-141 report by the OCD does n							
failed to adequately investig	gate and remediate contamination that pose a threat to ground	dwater, 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								

Date: _____

Telephone:

OCD Only

and/or regulations.

Received by: _ Jocelyn Harimon Date: 05/27/2022

Printed Name:

Signature: Jenní Usher

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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?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well 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	ls.

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.

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Incident ID		
District RP		
Facility ID		
Application ID		

	occupatifications and perform corrective actions for releases which may endanger occupations not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In
Printed Name:	Title:
Signature: Jennú Usher	Date:
email:	Telephone:
OCD Only	
Received by:	Date:

Received by OCD: 5/27/2022 1:51:03 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

	Page 21 of 66
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 19.15.29.1 ☐ Proposed schedule for remediation (note if remediation plan times)	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be com	firmed as part of any request for deferral of remediation
Deterral Requests Only. Each of the following tiems must be con-	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
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 complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local later.	ertain release notifications and perform corrective actions for releases ace of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name:	Title:
Signature: <u>Jenní Usher</u>	Date:
email:	Telephone:
OCD Only	
<u>oce omy</u>	
Received by:	Date:
Approved Approved with Attached Conditions of A	Approval
Signature:	Date:

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Incident ID
District RP
Facility ID
Application ID

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially neditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Signature:	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	Title:



Appendix B

Site Characterization Documents



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

er Q64 Q16 Q4 Sec Tws Rng

X Y

L 11365

4 4 1 29 18S 38E

671337 3621642*

9

Driller License: 571

Driller Company:

"GLASSPOOLE, GEORGE ""BILL"" W.E "

Driller Name:

GLASSPOOLE, GEORGE W.

08/11/2002

Drill Finish Date:

08/12/2002

Plug Date:

01. - 11 - ---

Drill Start Date: Log File Date:

08/23/2002

PCW Rcv Date:

Source:

Shallow

Pump Type:

06/23/2002

Pipe Discharge Size:

Estimated Yield:

60 GPM

Casing Size:

5.50

Depth Well:

120 feet

Depth Water:

55 feet

Water Bearing Stratifications:

Top Bottom Description

55 120 Other/Unknown

Casing Perforations:

Top Bottom

80 120

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

3/15/22 1:48 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 324248103094901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324248103094901 18S.38E.29.421222

Lea County, New Mexico

Latitude 32°42'48", Longitude 103°09'49" NAD27

Land-surface elevation 3,646 feet above NAVD88

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

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

Date \$	Time \$? Water- level \$ date- time accuracy	? Parameter [‡]	Water level, feet below land surface	Water level, feet above \$ specific vertical datum	Referenced vertical \$ datum	? Status	? Method of reasurement	? Measuring $\hat{}$ agency	? Source measu
1961-02-03		D	62610		3602.08	NGVD29	1	Z		
1961-02-03		D	62611		3603.31	NAVD88	1	Z		
1961-02-03		D	72019	42.69			1	Z		
1966-03-03		D	62610		3598.68	NGVD29	1	Z		
1966-03-03		D	62611		3599.91	NAVD88	1	Z		
1966-03-03		D	72019	46.09			1	Z		
1976-02-20		D	62610		3592.02	NGVD29	1	Z		
1976-02-20		D	62611		3593.25	NAVD88	1	Z		
1976-02-20		D	72019	52.75			1	Z		
1981-04-02		D	62610		3586.32	NGVD29	1	Z		
1981-04-02		D	62611		3587.55	NAVD88	1	Z		
1981-04-02		D	72019	58.45			1	Z		
1986-03-20		D	62610		3588.85	NGVD29	1	Z		
1986-03-20		D	62611		3590.08	NAVD88	1	Z		
1986-03-20		D	72019	55.92			1	Z		

Explanation

Section \$	Code	\$	Description	\$
Water-level date-time accuracy	D		Date is accurate to the Day	
Parameter code	62610		Groundwater level above NGVD 1929, feet	
Parameter code	62611		Groundwater level above NAVD 1988, feet	
Parameter code	72019		Depth to water level, feet below land surface	
Referenced vertical datum	NAVD88	3	North American Vertical Datum of 1988	
Referenced vertical datum	NGVD29	9	National Geodetic Vertical Datum of 1929	
Status	1		Static	
Method of measurement	Z		Other.	
Measuring agency			Not determined	
Source of measurement			Not determined	
Water-level approval status	А		Approved for publication Processing and review completed.	

Questions about sites/data? Feedback on this web site **Automated retrievals** <u>Help</u> <u>Data Tips</u> Explanation of terms
Subscribe for system changes **News**

Accessibility FOIA

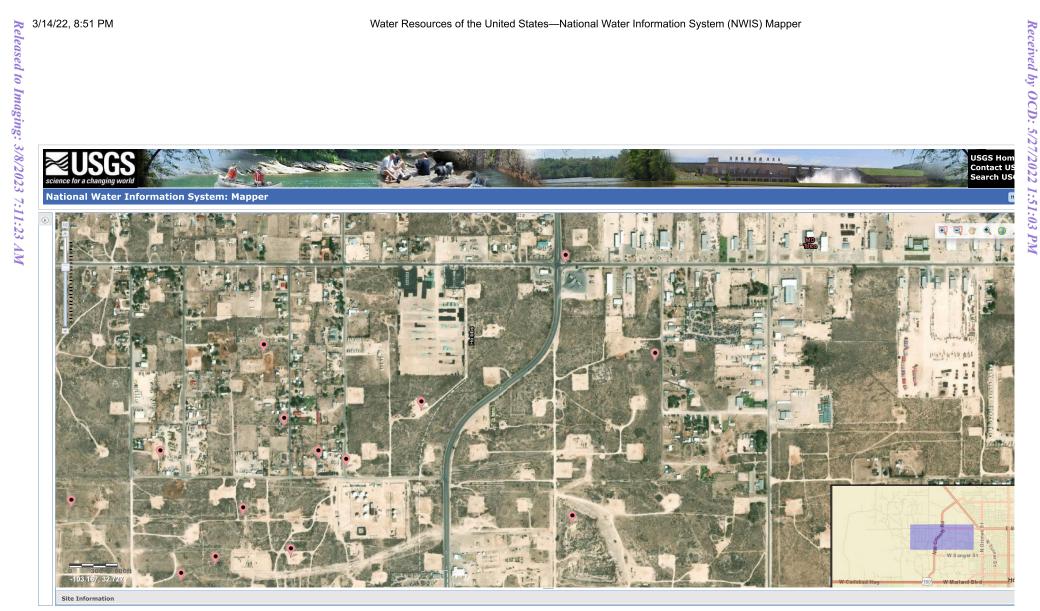
U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for New Mexico: Water Levels

URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

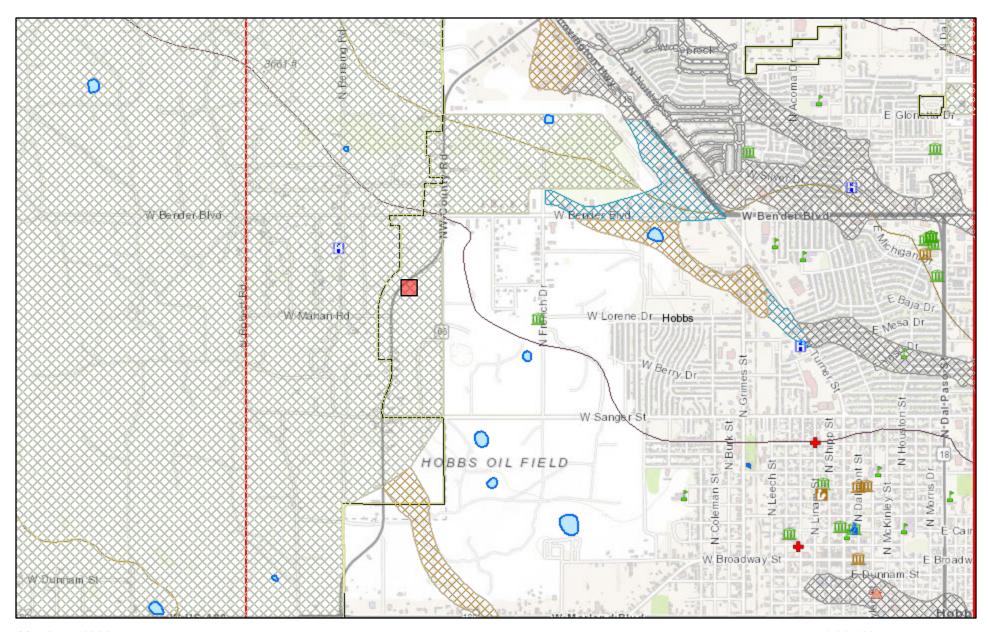
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0.33 0.3 nadww01

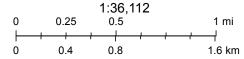




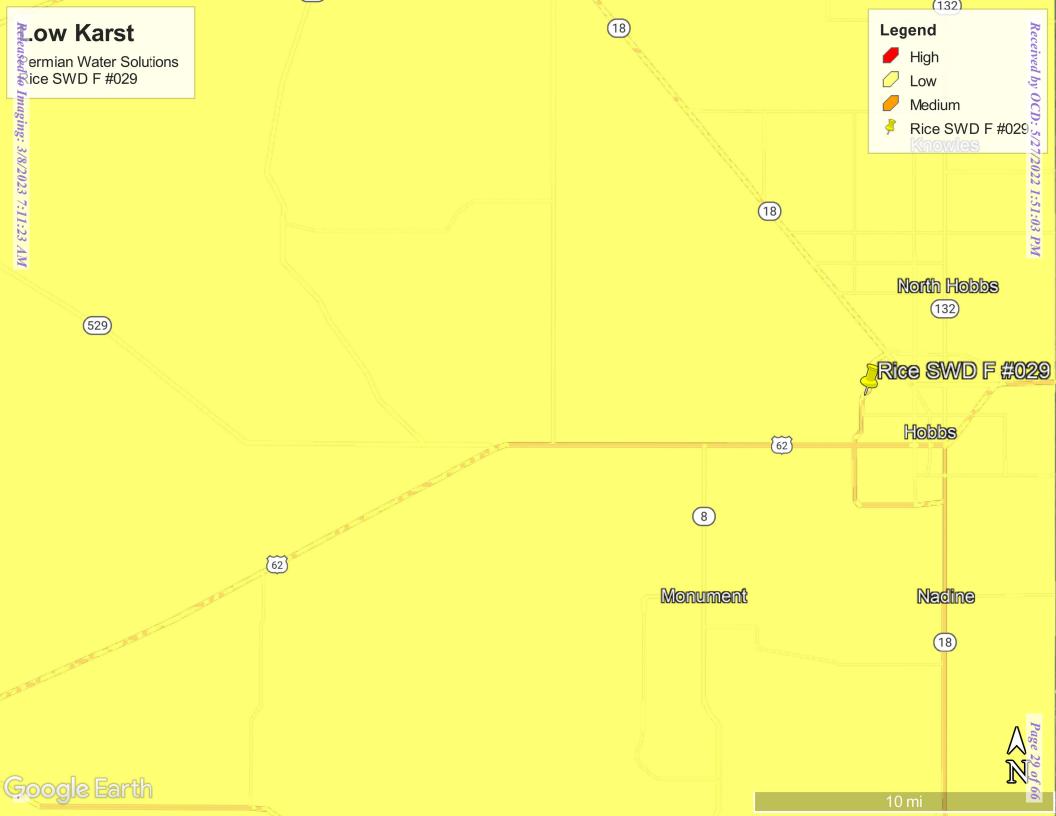
New Mexico NFHL Data



March 14, 2022



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





Appendix C

Laboratory Reports

Environment Testing America

ANALYTICAL REPORT

Eurofins Midland 1211 W. Florida Ave Midland, TX 79701 Tel: (432)704-5440

Laboratory Job ID: 880-14535-1

Laboratory Sample Delivery Group: Lea County, New Mexico

Client Project/Site: PWS-Rice SWD (F-29 SWD)

For:

Tetra Tech, Inc. 901 W Wall Ste 100 Midland, Texas 79701

Attn: Brittany Long

LAMER

Authorized for release by: 5/17/2022 1:18:28 PM

Jessica Kramer, Project Manager (432)704-5440

Jessica.Kramer@et.eurofinsus.com

----- LINKS ------**Review your project** results through EOL **Have a Question?**

www.eurofinsus.com/Env

Released to Imaging: 3/8/2023 7:11:23 AM

Visit us at:

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

Client: Tetra Tech, Inc. Project/Site: PWS-Rice SWD (F-29 SWD) Laboratory Job ID: 880-14535-1 SDG: Lea County, New Mexico

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Definitions/Glossary

Job ID: 880-14535-1 Client: Tetra Tech, Inc. Project/Site: PWS-Rice SWD (F-29 SWD)

SDG: Lea County, New Mexico

Qualifiers

GC VOA Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

MCL

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Method Detection Limit MDL Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Eurofins Midland

Case Narrative

Client: Tetra Tech, Inc.

Job ID: 880-14535-1 Project/Site: PWS-Rice SWD (F-29 SWD) SDG: Lea County, New Mexico

Job ID: 880-14535-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-14535-1

Receipt

The samples were received on 5/9/2022 12:00 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25601 and analytical batch 880-25595 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25270 and analytical batch 880-25229 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-25316 and analytical batch 880-25321 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-25209 and analytical batch 880-25486 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Project/Site: PWS-Rice SWD (F-29 SWD)

Client: Tetra Tech, Inc.

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-14535-1

Matrix: Solid

Client Sample ID: AH1 (0-2') Date Collected: 05/06/22 08:00

Date Received: 05/09/22 12:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/16/22 09:24	05/16/22 16:16	1
Toluene	< 0.00199	U	0.00199		mg/Kg		05/16/22 09:24	05/16/22 16:16	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		05/16/22 09:24	05/16/22 16:16	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398		mg/Kg		05/16/22 09:24	05/16/22 16:16	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		05/16/22 09:24	05/16/22 16:16	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/22 09:24	05/16/22 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				05/16/22 09:24	05/16/22 16:16	1
1,4-Difluorobenzene (Surr)	100		70 - 130				05/16/22 09:24	05/16/22 16:16	1
Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result 67.1	Qualifier	RL	MDL	Unit mg/Kg	D	Prepared	Analyzed	Dil Fac
-								05/11/22 13:40	1
Mothod: 901EP NM Diocol Pane	ao Organico (D	BO) (GC)			mg/itg			05/11/22 13:40	1
			PI	MDI		n	Propared		
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 50.0	MDL		<u>D</u>	Prepared 05/10/22 11:04		Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier		MDL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result < 50.0	Qualifier U	50.0	MDL	Unit mg/Kg	<u>D</u>	05/10/22 11:04	Analyzed 05/10/22 18:43	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 67.1	Qualifier U	50.0	MDL	Unit mg/Kg mg/Kg	<u>D</u>	05/10/22 11:04 05/10/22 11:04	Analyzed 05/10/22 18:43	Dil Fac 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 67.1 <50.0	Qualifier U	50.0 50.0 50.0	MDL	Unit mg/Kg mg/Kg	<u> </u>	05/10/22 11:04 05/10/22 11:04 05/10/22 11:04	Analyzed 05/10/22 18:43 05/10/22 18:43 05/10/22 18:43	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U	50.0 50.0 50.0 <i>Limits</i>	MDL	Unit mg/Kg mg/Kg	<u> </u>	05/10/22 11:04 05/10/22 11:04 05/10/22 11:04 Prepared	Analyzed 05/10/22 18:43 05/10/22 18:43 05/10/22 18:43 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg	<u> </u>	05/10/22 11:04 05/10/22 11:04 05/10/22 11:04 Prepared 05/10/22 11:04	Analyzed 05/10/22 18:43 05/10/22 18:43 05/10/22 18:43 Analyzed 05/10/22 18:43	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U Qualifier	50.0 50.0 50.0 Limits 70 - 130	MDL	Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	05/10/22 11:04 05/10/22 11:04 05/10/22 11:04 Prepared 05/10/22 11:04	Analyzed 05/10/22 18:43 05/10/22 18:43 05/10/22 18:43 Analyzed 05/10/22 18:43	Dil Face 1 1 1 Dil Face

Client Sample ID: AH-1 (1.5-2') Lab Sample ID: 880-14535-2 Date Collected: 05/06/22 08:30 **Matrix: Solid**

Date Received: 05/09/22 12:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/16/22 09:24	05/16/22 16:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/16/22 09:24	05/16/22 16:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/16/22 09:24	05/16/22 16:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/16/22 09:24	05/16/22 16:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/16/22 09:24	05/16/22 16:37	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/16/22 09:24	05/16/22 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				05/16/22 09:24	05/16/22 16:37	1
1,4-Difluorobenzene (Surr)	104		70 - 130				05/16/22 09:24	05/16/22 16:37	1

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Client Sample Results

Client: Tetra Tech, Inc. Project/Site: PWS-Rice SWD (F-29 SWD) Job ID: 880-14535-1

SDG: Lea County, New Mexico

Client Sample ID: AH-1 (1.5-2')

Date Collected: 05/06/22 08:30 Date Received: 05/09/22 12:00

Lab Sample ID: 880-14535-2

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			05/17/22 13:45	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			05/11/22 13:40	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		05/10/22 11:04	05/10/22 20:32	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		05/10/22 11:04	05/10/22 20:32	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		05/10/22 11:04	05/10/22 20:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/10/22 11:04	05/10/22 20:32	1
o-Terphenyl	111		70 - 130				05/10/22 11:04	05/10/22 20:32	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	846		5.00		mg/Kg		· ·	05/13/22 03:41	

Client Sample ID: AH-2 (0-1') Lab Sample ID: 880-14535-3 **Matrix: Solid**

Date Collected: 05/06/22 09:00

Date Received: 05/09/22 12:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/16/22 09:24	05/16/22 16:58	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/16/22 09:24	05/16/22 16:58	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/16/22 09:24	05/16/22 16:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/16/22 09:24	05/16/22 16:58	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/16/22 09:24	05/16/22 16:58	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/16/22 09:24	05/16/22 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				05/16/22 09:24	05/16/22 16:58	1
			70 400				05/16/22 09:24	05/16/22 16:58	1
Method: Total BTEX - Total BT		Qualifier	70 ₋ 130	MDL	Unit	D			
1,4-Difluorobenzene (Surr) : Method: Total BTEX - Total BT			70 - 130				03/10/22 09.24	03/10/22 10.38	,
Method: Total BTEX - Total BT Analyte	EX Calculation			MDL	Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/17/22 13:45	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX	CEX Calculation Result <0.00402	U	RL	MDL		<u>D</u>		Analyzed	Dil Fac
1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	EX Calculation Result <0.00402 ge Organics (DR0	U	RL			<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran	EX Calculation Result <0.00402 ge Organics (DR0	U (GC)	RL		mg/Kg		Prepared	Analyzed 05/17/22 13:45	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	EX Calculation Result <0.00402 ge Organics (DR) Result 254	O) (GC) Qualifier	RL 0.00402		mg/Kg		Prepared	Analyzed 05/17/22 13:45 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	Result 	O) (GC) Qualifier	RL 0.00402	MDL	mg/Kg		Prepared	Analyzed 05/17/22 13:45 Analyzed	Dil Fac
Method: Total BTEX - Total BT Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra	Result 	O) (GC) Qualifier RO) (GC) Qualifier	RL 0.00402 RL 50.0	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 05/17/22 13:45 Analyzed 05/11/22 13:40	Dil Fac

Eurofins Midland

Dil Fac

Client: Tetra Tech, Inc.

Job ID: 880-14535-1 Project/Site: PWS-Rice SWD (F-29 SWD)

SDG: Lea County, New Mexico

Client Sample ID: AH-2 (0-1')

Lab Sample ID: 880-14535-3

D

Prepared 05/10/22 11:04

Matrix: Solid

Analyzed

05/10/22 19:27

Date Collected: 05/06/22 09:00

Date Received: 05/09/22 12:00

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)								
Analyte	Result	Qualifier	RL	MDL	Unit			
Oll Pango Organics (Over	EG 7		50.0		malka			

C28-C36)

Limits Surrogate %Recovery Qualifier 1-Chlorooctane 88 70 - 130

o-Terphenyl 93 70 - 130

Prepared Analyzed Dil Fac 05/10/22 11:04 05/10/22 19:27 05/10/22 11:04 05/10/22 19:27

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte

RL MDL Unit D Prepared Analyzed Dil Fac Chloride 346 5.04 mg/Kg 05/13/22 03:49

Client Sample ID: AH-2 (1.5-2')

Date Collected: 05/06/22 09:30

Date Received: 05/09/22 12:00

Lab Sample ID: 880-14535-4

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac Benzene <0.00200 0.00200 mg/Kg 05/16/22 09:24 05/16/22 17:19 Toluene <0.00200 U 0.00200 mg/Kg 05/16/22 09:24 05/16/22 17:19 0.00200 05/16/22 09:24 05/16/22 17:19 <0.00200 U Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00401 U 0.00401 mg/Kg 05/16/22 09:24 05/16/22 17:19 o-Xylene <0.00200 U 0.00200 05/16/22 09:24 05/16/22 17:19 mg/Kg Xylenes, Total <0.00401 U 0.00401 mg/Kg 05/16/22 09:24 05/16/22 17:19

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 102 70 - 130 05/16/22 09:24 05/16/22 17:19 4-Bromofluorobenzene (Surr) 05/16/22 09:24 1,4-Difluorobenzene (Surr) 91 70 - 130 05/16/22 17:19

Method: Total BTEX - Total BTEX Calculation

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00401 U 0.00401 mg/Kg 05/17/22 13:45

Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte Result Qualifier MDL Unit RLD Analyzed Dil Fac Prepared 49.9 05/11/22 13:40 **Total TPH** 218 mg/Kg

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac <49.9 U 05/10/22 11:04 05/10/22 19:05 Gasoline Range Organics 49.9 mg/Kg (GRO)-C6-C10 05/10/22 11:04 05/10/22 19:05 **Diesel Range Organics (Over** 49.9 165 mg/Kg C10-C28) **Oll Range Organics (Over** 52.6 49.9 05/10/22 11:04 05/10/22 19:05 mg/Kg C28-C36)

%Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 89 70 - 130 05/10/22 11:04 05/10/22 19:05 95 70 - 130 05/10/22 11:04 05/10/22 19:05 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography - Soluble

Released to Imaging: 3/8/2023 7:11:23 AM

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 809 4.98 mg/Kg 05/13/22 03:58

Project/Site: PWS-Rice SWD (F-29 SWD)

Client: Tetra Tech, Inc.

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Client Sample ID: AH-3 (0-1')

Date Collected: 05/06/22 10:00 Date Received: 05/09/22 12:00 Lab Sample ID: 880-14535-5

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:24	05/16/22 17:39	
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:24	05/16/22 17:39	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:24	05/16/22 17:39	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/22 09:24	05/16/22 17:39	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:24	05/16/22 17:39	
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/22 09:24	05/16/22 17:39	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	101		70 - 130				05/16/22 09:24	05/16/22 17:39	
1,4-Difluorobenzene (Surr)	99		70 - 130				05/16/22 09:24	05/16/22 17:39	
- Method: Total BTEX - Total BTEX	(Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			05/17/22 13:45	•
Method: 8015 NM - Diesel Range	•								
Analyte		Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			05/11/22 13:40	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/10/22 11:04	05/10/22 20:10	,
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/10/22 11:04	05/10/22 20:10	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/10/22 11:04	05/10/22 20:10	,
							Prepared	Analyzed	Dil Eo
Surrogate	%Recovery	Qualifier	Limits				rreparea	Analyzea	DII Fa
Surrogate 1-Chlorooctane	%Recovery 85	Qualifier	70 - 130				05/10/22 11:04	05/10/22 20:10	
		Qualifier							
1-Chlorooctane	85 90		70 - 130				05/10/22 11:04	05/10/22 20:10	1
1-Chlorooctane o-Terphenyl	85 90 omatography -		70 - 130	MDL	Unit	D	05/10/22 11:04	05/10/22 20:10	Dil Fac

Client Sample ID: AH-3 (1.5-2')

Date Collected: 05/06/22 10:30

Lab Sample ID: 880-14535-6

Matrix: Solid

Date Received: 05/09/22 12:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		05/16/22 09:24	05/16/22 18:00	1
Toluene	<0.00201	U	0.00201		mg/Kg		05/16/22 09:24	05/16/22 18:00	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		05/16/22 09:24	05/16/22 18:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		05/16/22 09:24	05/16/22 18:00	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		05/16/22 09:24	05/16/22 18:00	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		05/16/22 09:24	05/16/22 18:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				05/16/22 09:24	05/16/22 18:00	1
1.4-Difluorobenzene (Surr)	90		70 - 130				05/16/22 09:24	05/16/22 18:00	1

Eurofins Midland

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Client Sample Results

Client: Tetra Tech, Inc. Project/Site: PWS-Rice SWD (F-29 SWD) Job ID: 880-14535-1

SDG: Lea County, New Mexico

Client Sample ID: AH-3 (1.5-2')

Date Collected: 05/06/22 10:30 Date Received: 05/09/22 12:00 Lab Sample ID: 880-14535-6

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			05/17/22 13:45	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			05/11/22 13:40	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		05/10/22 11:04	05/10/22 20:53	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		05/10/22 11:04	05/10/22 20:53	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/10/22 11:04	05/10/22 20:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				05/10/22 11:04	05/10/22 20:53	1
o-Terphenyl	105		70 - 130				05/10/22 11:04	05/10/22 20:53	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	840		5.00		mg/Kg			05/13/22 04:30	

Client Sample ID: H-1 (0-5') Lab Sample ID: 880-14535-7 Date Collected: 05/06/22 10:00 **Matrix: Solid**

Date Received: 05/09/22 12:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/16/22 09:24	05/16/22 18:21	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/16/22 09:24	05/16/22 18:21	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/16/22 09:24	05/16/22 18:21	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/16/22 09:24	05/16/22 18:21	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/16/22 09:24	05/16/22 18:21	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/16/22 09:24	05/16/22 18:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				05/16/22 09:24	05/16/22 18:21	1
1,4-Difluorobenzene (Surr)	98		70 - 130				05/16/22 09:24	05/16/22 18:21	1
Method: Total BTEX - Total BT						_			
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed 05/17/22 13:45	Dil Fac
Analyte Total BTEX	<0.00398	U	RL 0.00398	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/17/22 13:45	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran	Result <0.00398	U				<u>D</u>	Prepared Prepared		1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte	Result <0.00398	U (GC)	0.00398		mg/Kg			05/17/22 13:45	Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH	Result <0.00398 ge Organics (DR Result 175	O) (GC) Qualifier	0.00398		mg/Kg			05/17/22 13:45 Analyzed	1
Analyte Total BTEX Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ra	ge Organics (DR) Result 175 unge Organics (D	O) (GC) Qualifier	0.00398	MDL	mg/Kg			05/17/22 13:45 Analyzed	1
Analyte	ge Organics (DR) Result 175 unge Organics (D	O) (GC) Qualifier RO) (GC) Qualifier	0.00398 RL 50.0	MDL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	05/17/22 13:45 Analyzed 05/11/22 13:40	Dil Fac

Client: Tetra Tech, Inc. Job ID: 880-14535-1 Project/Site: PWS-Rice SWD (F-29 SWD) SDG: Lea County, New Mexico

Client Sample ID: H-1 (0-5')

Date Collected: 05/06/22 10:00 Date Received: 05/09/22 12:00

Lab Sample ID: 880-14535-7

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/10/22 11:04	05/10/22 19:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				05/10/22 11:04	05/10/22 19:48	1
o-Terphenyl	75		70 - 130				05/10/22 11:04	05/10/22 19:48	1

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 430 4.98 05/13/22 04:38 Chloride mg/Kg

Client Sample ID: H-2 (0-0.5')

Date Collected: 05/06/22 11:30 Date Received: 05/09/22 12:00

Lab Sample ID: 880-14535-8

Matrix: Solid

Analyte	nic Compounds (Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/16/22 09:24	05/16/22 18:42	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/16/22 09:24	05/16/22 18:42	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/16/22 09:24	05/16/22 18:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/16/22 09:24	05/16/22 18:42	
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/16/22 09:24	05/16/22 18:42	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/16/22 09:24	05/16/22 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130				05/16/22 09:24	05/16/22 18:42	1
1,4-Difluorobenzene (Surr)	99		70 - 130				05/16/22 09:24	05/16/22 18:42	1
Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			05/17/22 13:45	1
Method: 8015 NM - Diesel Rang Analyte	Result	O) (GC) Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
	•		RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/11/22 13:40	
Analyte	Result 300	Qualifier		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result 300	Qualifier				<u>D</u>	Prepared Prepared		Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra	Result 300	Qualifier RO) (GC)	49.9		mg/Kg			05/11/22 13:40	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics	Result 300 nge Organics (Di	Qualifier RO) (GC) Qualifier	49.9		mg/Kg		Prepared	05/11/22 13:40 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 300 nge Organics (Di Result <49.9	Qualifier RO) (GC) Qualifier	49.9 RL 49.9		mg/Kg Unit mg/Kg		Prepared 05/11/22 09:33	05/11/22 13:40 Analyzed 05/11/22 15:01	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over	Result 300 nge Organics (Di Result <49.9	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 05/11/22 09:33 05/11/22 09:33	05/11/22 13:40 Analyzed 05/11/22 15:01 05/11/22 15:01	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 300	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9		mg/Kg Unit mg/Kg mg/Kg		Prepared 05/11/22 09:33 05/11/22 09:33	Analyzed 05/11/22 15:01 05/11/22 15:01 05/11/22 15:01	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 300	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits		mg/Kg Unit mg/Kg mg/Kg		Prepared 05/11/22 09:33 05/11/22 09:33 05/11/22 09:33 Prepared	Analyzed 05/11/22 13:40 Analyzed 05/11/22 15:01 05/11/22 15:01 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 300	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130		mg/Kg Unit mg/Kg mg/Kg		Prepared 05/11/22 09:33 05/11/22 09:33 05/11/22 09:33 Prepared 05/11/22 09:33	Analyzed 05/11/22 15:01 05/11/22 15:01 05/11/22 15:01 Analyzed 05/11/22 15:01	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ra Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 300	Qualifier RO) (GC) Qualifier U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	MDL	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/11/22 09:33 05/11/22 09:33 05/11/22 09:33 Prepared 05/11/22 09:33	Analyzed 05/11/22 15:01 05/11/22 15:01 05/11/22 15:01 Analyzed 05/11/22 15:01	1

Client: Tetra Tech, Inc.

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Lab Sample ID: 880-14535-9

Matrix: Solid

Date	Collected:	05/06/22	13:30
Date	Received:	05/09/22 1	12:00

Project/Site: PWS-Rice SWD (F-29 SWD)

Client Sample ID: H-3 (0-0.5')

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:33	05/17/22 05:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:33	05/17/22 05:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:33	05/17/22 05:44	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/16/22 09:33	05/17/22 05:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:33	05/17/22 05:44	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/16/22 09:33	05/17/22 05:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				05/16/22 09:33	05/17/22 05:44	1
1,4-Difluorobenzene (Surr)	89		70 - 130				05/16/22 09:33	05/17/22 05:44	1
- Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			05/17/22 13:45	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	227		50.0		mg/Kg			05/11/22 13:40	1
- Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/11/22 09:33	05/11/22 15:23	1
(GRO)-C6-C10									
Diesel Range Organics (Over	227		50.0		mg/Kg		05/11/22 09:33	05/11/22 15:23	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/22 09:33	05/11/22 15:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130				05/11/22 09:33	05/11/22 15:23	1
o-Terphenyl	109		70 - 130				05/11/22 09:33	05/11/22 15:23	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte		Qualifier	RL			D		Analyzed	

Client Sample ID: H-4 (0-0.5') Lab Sample ID: 880-14535-10 Date Collected: 05/06/22 14:00 **Matrix: Solid**

435

4.97

mg/Kg

Date Received: 05/09/22 12:00

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/16/22 09:24	05/16/22 20:47	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/16/22 09:24	05/16/22 20:47	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/16/22 09:24	05/16/22 20:47	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/16/22 09:24	05/16/22 20:47	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/16/22 09:24	05/16/22 20:47	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/16/22 09:24	05/16/22 20:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				05/16/22 09:24	05/16/22 20:47	1
1.4-Difluorobenzene (Surr)	101		70 - 130				05/16/22 09:24	05/16/22 20:47	1

Eurofins Midland

05/13/22 04:55

Client Sample Results

Client: Tetra Tech, Inc.

Project/Site: PWS-Rice SWD (F-29 SWD)

SDG: Le

Job ID: 880-14535-1

Project/Site: PWS-Rice SWD (F-29 SWD)

SDG: Lea County, New Mexico

Lab Sample ID: 880-14535-10

Client Sample ID: H-4 (0-0.5')
Date Collected: 05/06/22 14:00

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			05/17/22 13:45	-
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	284		50.0		mg/Kg			05/11/22 13:40	
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/11/22 09:33	05/11/22 15:45	
(GRO)-C6-C10									
Diesel Range Organics (Over	284		50.0		mg/Kg		05/11/22 09:33	05/11/22 15:45	
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/22 09:33	05/11/22 15:45	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	119		70 - 130				05/11/22 09:33	05/11/22 15:45	
o-Terphenyl	124		70 - 130				05/11/22 09:33	05/11/22 15:45	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		5.00		mg/Kg			05/13/22 05:03	

Surrogate Summary

Client: Tetra Tech, Inc. Job ID: 880-14535-1 Project/Site: PWS-Rice SWD (F-29 SWD)

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-14535-1	AH1 (0-2')	98	100	
880-14535-1 MS	AH1 (0-2')	108	101	
880-14535-1 MSD	AH1 (0-2')	106	102	
880-14535-2	AH-1 (1.5-2')	98	104	
880-14535-3	AH-2 (0-1')	103	99	
880-14535-4	AH-2 (1.5-2')	102	91	
880-14535-5	AH-3 (0-1')	101	99	
880-14535-6	AH-3 (1.5-2')	105	90	
880-14535-7	H-1 (0-5')	104	98	
880-14535-8	H-2 (0-0.5')	106	99	
880-14535-9	H-3 (0-0.5')	103	89	
880-14535-10	H-4 (0-0.5')	93	101	
LCS 880-25601/1-A	Lab Control Sample	94	101	
LCS 880-25603/1-A	Lab Control Sample	97	102	
LCSD 880-25601/2-A	Lab Control Sample Dup	103	101	
LCSD 880-25603/2-A	Lab Control Sample Dup	114	97	
MB 880-25601/5-A	Method Blank	99	98	
MB 880-25603/5-A	Method Blank	106	93	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1001	0.75114	Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-14535-1	AH1 (0-2')	93	99	
880-14535-2	AH-1 (1.5-2')	102	111	
380-14535-3	AH-2 (0-1')	88	93	
880-14535-4	AH-2 (1.5-2')	89	95	
380-14535-5	AH-3 (0-1')	85	90	
380-14535-6	AH-3 (1.5-2')	102	105	
380-14535-7	H-1 (0-5')	72	75	
380-14535-8	H-2 (0-0.5')	116	121	
380-14535-9	H-3 (0-0.5')	103	109	
880-14535-10	H-4 (0-0.5')	119	124	
380-14580-A-1-F MS	Matrix Spike	81	73	
880-14580-A-1-G MSD	Matrix Spike Duplicate	82	74	
390-2291-A-1-C MS	Matrix Spike	92	80	
390-2291-A-1-D MSD	Matrix Spike Duplicate	82	72	
LCS 880-25270/2-A	Lab Control Sample	102	99	
CS 880-25316/2-A	Lab Control Sample	118	113	
_CSD 880-25270/3-A	Lab Control Sample Dup	103	101	
LCSD 880-25316/3-A	Lab Control Sample Dup	120	116	
MB 880-25270/1-A	Method Blank	88	99	
MB 880-25316/1-A	Method Blank	97	109	

Surrogate Summary

Client: Tetra Tech, Inc.

Project/Site: PWS-Rice SWD (F-29 SWD)

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Project/Site: PWS-Rice SWD (F-29 SWD)

Client: Tetra Tech, Inc.

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-25601/5-A

Matrix: Solid

Analysis Batch: 25595

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25601

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:24	05/16/22 15:54	
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:24	05/16/22 15:54	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:24	05/16/22 15:54	
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/22 09:24	05/16/22 15:54	
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:24	05/16/22 15:54	
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		05/16/22 09:24	05/16/22 15:54	•

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	05	5/16/22 09:24	05/16/22 15:54	1
1,4-Difluorobenzene (Surr)	98		70 - 130	05	5/16/22 09:24	05/16/22 15:54	1

Lab Sample ID: LCS 880-25601/1-A

Matrix: Solid

Analysis Batch: 25595

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25601

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09745		mg/Kg		97	70 - 130	
Toluene	0.100	0.09612		mg/Kg		96	70 - 130	
Ethylbenzene	0.100	0.08365		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	0.200	0.1726		mg/Kg		86	70 - 130	
o-Xylene	0.100	0.08729		mg/Kg		87	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	94		70 - 130		
1,4-Difluorobenzene (Surr)	101		70 - 130		

Lab Sample ID: LCSD 880-25601/2-A

Matrix: Solid

Analysis Batch: 25595

Prep Type: Total/NA

Prep Batch: 25601

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1059		mg/Kg		106	70 - 130	8	35
Toluene	0.100	0.1041		mg/Kg		104	70 - 130	8	35
Ethylbenzene	0.100	0.09131		mg/Kg		91	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1918		mg/Kg		96	70 - 130	11	35
o-Xylene	0.100	0.09679		mg/Kg		97	70 - 130	10	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	103		70 - 130		
1.4-Difluorobenzene (Surr)	101		70 - 130		

Lab Sample ID: 880-14535-1 MS

Matrix: Solid

Analysis Batch: 25595

Client Sample ID: AH1 (0-2')

Prep Type: Total/NA

Prep Batch: 25601

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.08773		mg/Kg		87	70 - 130	-
Toluene	< 0.00199	U	0.100	0.08825		mg/Kg		88	70 - 130	

Eurofins Midland

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QC Sample Results

Job ID: 880-14535-1 Client: Tetra Tech, Inc. Project/Site: PWS-Rice SWD (F-29 SWD) SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-14535-1 MS

Matrix: Solid

Analysis Batch: 25595

Client Sample ID: AH1 (0-2')

Prep Type: Total/NA Prep Batch: 25601

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00199 U 0.100 0.07500 75 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00398 UF1 0.201 0.1553 mg/Kg 77 70 - 130 0.100 o-Xylene <0.00199 U 0.07812 mg/Kg 78 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	108		70 - 130		
1,4-Difluorobenzene (Surr)	101		70 - 130		

Lab Sample ID: 880-14535-1 MSD

Matrix: Solid

Analysis Batch: 25595

Client Sample ID: AH1 (0-2')

Prep Type: Total/NA

Prep Batch: 25601

Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Unit Limits 0.100 0.07517 Benzene <0.00199 U mg/Kg 75 70 - 130 15 35 Toluene <0.00199 0.100 0.07965 79 mg/Kg 70 - 130 10 35 Ethylbenzene <0.00199 U 0.100 0.07106 mg/Kg 71 70 - 130 5 35 <0.00398 UF1 0.200 0.1390 F1 70 - 130 11 35 m-Xylene & p-Xylene mg/Kg 69 0.100 <0.00199 U 0.07011 70 70 - 130 o-Xylene mg/Kg 11

MSD MSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	106		70 - 130		
1,4-Difluorobenzene (Surr)	102		70 - 130		

Lab Sample ID: MB 880-25603/5-A

Matrix: Solid

Analysis Batch: 25595

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25603

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:33	05/17/22 02:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:33	05/17/22 02:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:33	05/17/22 02:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/16/22 09:33	05/17/22 02:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/16/22 09:33	05/17/22 02:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/16/22 09:33	05/17/22 02:37	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	05/16/22 09:33	05/17/22 02:37	1
1,4-Difluorobenzene (Surr)	93		70 - 130	05/16/22 09:33	05/17/22 02:37	1

Lab Sample ID: LCS 880-25603/1-A

Matrix: Solid

Analysis Batch: 25595

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25603

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1020		mg/Kg		102	70 - 130
Toluene	0.100	0.09657		mg/Kg		97	70 - 130
Ethylbenzene	0.100	0.08230		mg/Kg		82	70 - 130
m-Xylene & p-Xylene	0.200	0.1704		mg/Kg		85	70 - 130

Client: Tetra Tech, Inc.

Project/Site: PWS-Rice SWD (F-29 SWD)

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 880-25603/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 25595** Prep Batch: 25603

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
o-Xylene	0.100	0.08715		mg/Kg		87	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-25603/2-A Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 25595							Prep	Batch:	25603
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09287		mg/Kg		93	70 - 130	9	35
Toluene	0.100	0.09913		mg/Kg		99	70 - 130	3	35
Ethylbenzene	0.100	0.09105		mg/Kg		91	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1961		mg/Kg		98	70 - 130	14	35
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130	14	35
I and the second									

LCSD LCSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 114 70 - 130 1,4-Difluorobenzene (Surr) 97 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-25270/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25229

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/10/22 11:04	05/10/22 11:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/10/22 11:04	05/10/22 11:21	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/10/22 11:04	05/10/22 11:21	1

	МВ	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	05/10/22 11:04	05/10/22 11:21	1
o-Terphenyl	99		70 - 130	05/10/22 11:04	05/10/22 11:21	1

Lab Sample ID: LCS 880-25270/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 25229

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	871.9		mg/Kg		87	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	978.6		mg/Kg		98	70 - 130	
C10-C28)								

Prep Batch: 25270

Prep Batch: 25270

Prep Batch: 25270

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Job ID: 880-14535-1

Client: Tetra Tech, Inc. Project/Site: PWS-Rice SWD (F-29 SWD) SDG: Lea County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-25270/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 25229

Surrogate 1-Chlorooctane o-Terphenyl

LCS	LCS	
%Recovery	Qualifier	Limits
102		70 _ 130
99		70 - 130

Lab Sample ID: LCSD 880-25270/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 25229							Prep	Batch:	25270
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	814.5		mg/Kg		81	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	987.6		mg/Kg		99	70 - 130	1	20

LCSD LCSD Surrogate %Recovery Qualifier Limits 103 70 - 130 1-Chlorooctane o-Terphenyl 101 70 - 130

Lab Sample ID: 880-14580-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 25229									Prep	Batch: 25270
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1003		mg/Kg		98	70 - 130	
Diesel Range Organics (Over C10-C28)	81.9	F1	1000	747.7	F1	mg/Kg		67	70 - 130	

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 81 o-Terphenyl 73 70 - 130

Lab Sample ID: 880-14580-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 25229									Prep Batch: 2			
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	1026		mg/Kg		100	70 - 130	2	20	
Diesel Range Organics (Over	81.9	F1	998	761.4	F1	mg/Kg		68	70 - 130	2	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	74		70 - 130

Client: Tetra Tech, Inc.

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 880-25316/1-A

Project/Site: PWS-Rice SWD (F-29 SWD)

Matrix: Solid

Analysis Batch: 25321

Lab Sample ID: LCS 880-25316/2-A

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25316

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		05/11/22 09:33	05/11/22 10:55	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		05/11/22 09:33	05/11/22 10:55	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/11/22 09:33	05/11/22 10:55	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				05/11/22 09:33	05/11/22 10:55	1
o-Terphenyl	109		70 - 130				05/11/22 09:33	05/11/22 10:55	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25316

Analysis Batch: 25321 LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits 916.7 Gasoline Range Organics 1000 92 70 - 130 mg/Kg

(GRO)-C6-C10 1000 Diesel Range Organics (Over 1109 mg/Kg 111 70 - 130

C10-C28)

Matrix: Solid

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 118 70 - 130 o-Terphenyl 113 70 - 130

Lab Sample ID: LCSD 880-25316/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 25321

Prep Type: Total/NA

Prep Batch: 25316

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	954.5		mg/Kg		95	70 - 130	4	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1119		mg/Kg		112	70 - 130	1	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: 890-2291-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 25321 Prep Batch: 25316 Sample Sample

	Sample	Sample	Spike	IVIO	IVIO				/onec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<50.0	U	1000	1064		mg/Kg		104	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<50.0	U F1	1000	804.5		mg/Kg		76	70 - 130	
C10-C28)										

Project/Site: PWS-Rice SWD (F-29 SWD)

Client: Tetra Tech, Inc.

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

MS MS

Lab Sample ID: 890-2291-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 25321 Prep Batch: 25316

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 92 70 - 130 o-Terphenyl 80 70 - 130

Lab Sample ID: 890-2291-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA Analysis Batch: 25321 Prep Batch: 25316

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit

<50.0 U 998 1056 103 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 998 68 <50.0 U F1 724.0 F1 mg/Kg 70 - 13011 20 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 82 70 - 130 1-Chlorooctane 72 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25209/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Soluble

Analysis Batch: 25486

мв мв

Analyte Result Qualifier RL MDL D Dil Fac Unit Prepared Analyzed 5.00 Chloride <5.00 U mg/Kg 05/13/22 02:52

Lab Sample ID: LCS 880-25209/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Released to Imaging: 3/8/2023 7:11:23 AM

Analysis Batch: 25486

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 266.1 mg/Kg 106 90 - 110

Lab Sample ID: LCSD 880-25209/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Analysis Batch: 25486

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 265.8 106 mg/Kg

Lab Sample ID: 880-14535-1 MS Client Sample ID: AH1 (0-2')

Matrix: Solid Prep Type: Soluble

Analysis Batch: 25486 Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier %Rec Limits Unit F1 1250 Chloride 1600 3233 F1 mg/Kg 131 90 - 110

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Prep Type: Soluble

90 - 110 20

QC Sample Results

Client: Tetra Tech, Inc.

Job ID: 880-14535-1

Project/Site: PWS-Rice SWD (F-29 SWD)

SDG: Lea County, New Mexico

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-14535-1 MSD

Client Sample ID: AH1 (0-2')

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 25486

RPD Sample Sample Spike MSD MSD %Rec Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits Chloride 1600 F1 1250 3037 F1 mg/Kg 115 90 - 110 6 20

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Client: Tetra Tech, Inc.

Job ID: 880-14535-1 Project/Site: PWS-Rice SWD (F-29 SWD) SDG: Lea County, New Mexico

GC VOA

Analysis Batch: 25595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-1	AH1 (0-2')	Total/NA	Solid	8021B	25601
880-14535-2	AH-1 (1.5-2')	Total/NA	Solid	8021B	25601
880-14535-3	AH-2 (0-1')	Total/NA	Solid	8021B	25601
880-14535-4	AH-2 (1.5-2')	Total/NA	Solid	8021B	25601
880-14535-5	AH-3 (0-1')	Total/NA	Solid	8021B	25601
880-14535-6	AH-3 (1.5-2')	Total/NA	Solid	8021B	25601
880-14535-7	H-1 (0-5')	Total/NA	Solid	8021B	25601
880-14535-8	H-2 (0-0.5')	Total/NA	Solid	8021B	25601
880-14535-9	H-3 (0-0.5')	Total/NA	Solid	8021B	25603
880-14535-10	H-4 (0-0.5')	Total/NA	Solid	8021B	25601
MB 880-25601/5-A	Method Blank	Total/NA	Solid	8021B	25601
MB 880-25603/5-A	Method Blank	Total/NA	Solid	8021B	25603
LCS 880-25601/1-A	Lab Control Sample	Total/NA	Solid	8021B	25601
LCS 880-25603/1-A	Lab Control Sample	Total/NA	Solid	8021B	25603
LCSD 880-25601/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25601
LCSD 880-25603/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	25603
880-14535-1 MS	AH1 (0-2')	Total/NA	Solid	8021B	25601
880-14535-1 MSD	AH1 (0-2')	Total/NA	Solid	8021B	25601

Prep Batch: 25601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-1	AH1 (0-2')	Total/NA	Solid	5035	
880-14535-2	AH-1 (1.5-2')	Total/NA	Solid	5035	
880-14535-3	AH-2 (0-1')	Total/NA	Solid	5035	
880-14535-4	AH-2 (1.5-2')	Total/NA	Solid	5035	
880-14535-5	AH-3 (0-1')	Total/NA	Solid	5035	
880-14535-6	AH-3 (1.5-2')	Total/NA	Solid	5035	
880-14535-7	H-1 (0-5')	Total/NA	Solid	5035	
880-14535-8	H-2 (0-0.5')	Total/NA	Solid	5035	
880-14535-10	H-4 (0-0.5')	Total/NA	Solid	5035	
MB 880-25601/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25601/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25601/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-14535-1 MS	AH1 (0-2')	Total/NA	Solid	5035	
880-14535-1 MSD	AH1 (0-2')	Total/NA	Solid	5035	

Prep Batch: 25603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-9	H-3 (0-0.5')	Total/NA	Solid	5035	<u> </u>
MB 880-25603/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-25603/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-25603/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 25746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-1	AH1 (0-2')	Total/NA	Solid	Total BTEX	
880-14535-2	AH-1 (1.5-2')	Total/NA	Solid	Total BTEX	
880-14535-3	AH-2 (0-1')	Total/NA	Solid	Total BTEX	
880-14535-4	AH-2 (1.5-2')	Total/NA	Solid	Total BTEX	
880-14535-5	AH-3 (0-1')	Total/NA	Solid	Total BTEX	
880-14535-6	AH-3 (1.5-2')	Total/NA	Solid	Total BTEX	

Client: Tetra Tech, Inc.

Project/Site: PWS-Rice SWD (F-29 SWD)

Job ID: 880-14535-1

SDG: Lea County, New Mexico

GC VOA (Continued)

Analysis Batch: 25746 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
880-14535-7	H-1 (0-5')	Total/NA	Solid	Total BTEX
880-14535-8	H-2 (0-0.5')	Total/NA	Solid	Total BTEX
880-14535-9	H-3 (0-0.5')	Total/NA	Solid	Total BTEX
880-14535-10	H-4 (0-0.5')	Total/NA	Solid	Total BTEX

GC Semi VOA

Analysis Batch: 25229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-1	AH1 (0-2')	Total/NA	Solid	8015B NM	25270
880-14535-2	AH-1 (1.5-2')	Total/NA	Solid	8015B NM	25270
880-14535-3	AH-2 (0-1')	Total/NA	Solid	8015B NM	25270
880-14535-4	AH-2 (1.5-2')	Total/NA	Solid	8015B NM	25270
880-14535-5	AH-3 (0-1')	Total/NA	Solid	8015B NM	25270
880-14535-6	AH-3 (1.5-2')	Total/NA	Solid	8015B NM	25270
880-14535-7	H-1 (0-5')	Total/NA	Solid	8015B NM	25270
MB 880-25270/1-A	Method Blank	Total/NA	Solid	8015B NM	25270
LCS 880-25270/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25270
LCSD 880-25270/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25270
880-14580-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	25270
880-14580-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25270

Prep Batch: 25270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-1	AH1 (0-2')	Total/NA	Solid	8015NM Prep	
880-14535-2	AH-1 (1.5-2')	Total/NA	Solid	8015NM Prep	
880-14535-3	AH-2 (0-1')	Total/NA	Solid	8015NM Prep	
880-14535-4	AH-2 (1.5-2')	Total/NA	Solid	8015NM Prep	
880-14535-5	AH-3 (0-1')	Total/NA	Solid	8015NM Prep	
880-14535-6	AH-3 (1.5-2')	Total/NA	Solid	8015NM Prep	
880-14535-7	H-1 (0-5')	Total/NA	Solid	8015NM Prep	
MB 880-25270/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25270/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25270/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-14580-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-14580-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 25316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-8	H-2 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-14535-9	H-3 (0-0.5')	Total/NA	Solid	8015NM Prep	
880-14535-10	H-4 (0-0.5')	Total/NA	Solid	8015NM Prep	
MB 880-25316/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25316/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25316/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2291-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2291-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 25321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-8	H-2 (0-0.5')	Total/NA	Solid	8015B NM	25316

Client: Tetra Tech, Inc. Project/Site: PWS-Rice SWD (F-29 SWD)

Job ID: 880-14535-1 SDG: Lea County, New Mexico

GC Semi VOA (Continued)

Analysis Batch: 25321 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-9	H-3 (0-0.5')	Total/NA	Solid	8015B NM	25316
880-14535-10	H-4 (0-0.5')	Total/NA	Solid	8015B NM	25316
MB 880-25316/1-A	Method Blank	Total/NA	Solid	8015B NM	25316
LCS 880-25316/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25316
LCSD 880-25316/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25316
890-2291-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	25316
890-2291-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25316

Analysis Batch: 25357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-1	AH1 (0-2')	Total/NA	Solid	8015 NM	
880-14535-2	AH-1 (1.5-2')	Total/NA	Solid	8015 NM	
880-14535-3	AH-2 (0-1')	Total/NA	Solid	8015 NM	
880-14535-4	AH-2 (1.5-2')	Total/NA	Solid	8015 NM	
880-14535-5	AH-3 (0-1')	Total/NA	Solid	8015 NM	
880-14535-6	AH-3 (1.5-2')	Total/NA	Solid	8015 NM	
880-14535-7	H-1 (0-5')	Total/NA	Solid	8015 NM	
880-14535-8	H-2 (0-0.5')	Total/NA	Solid	8015 NM	
880-14535-9	H-3 (0-0.5')	Total/NA	Solid	8015 NM	
880-14535-10	H-4 (0-0.5')	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 25209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-14535-1	AH1 (0-2')	Soluble	Solid	DI Leach	_
880-14535-2	AH-1 (1.5-2')	Soluble	Solid	DI Leach	
880-14535-3	AH-2 (0-1')	Soluble	Solid	DI Leach	
880-14535-4	AH-2 (1.5-2')	Soluble	Solid	DI Leach	
880-14535-5	AH-3 (0-1')	Soluble	Solid	DI Leach	
880-14535-6	AH-3 (1.5-2')	Soluble	Solid	DI Leach	
880-14535-7	H-1 (0-5')	Soluble	Solid	DI Leach	
880-14535-8	H-2 (0-0.5')	Soluble	Solid	DI Leach	
880-14535-9	H-3 (0-0.5')	Soluble	Solid	DI Leach	
880-14535-10	H-4 (0-0.5')	Soluble	Solid	DI Leach	
MB 880-25209/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25209/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25209/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-14535-1 MS	AH1 (0-2')	Soluble	Solid	DI Leach	
880-14535-1 MSD	AH1 (0-2')	Soluble	Solid	DI Leach	

Analysis Batch: 25486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-1	AH1 (0-2')	Soluble	Solid	300.0	25209
880-14535-2	AH-1 (1.5-2')	Soluble	Solid	300.0	25209
880-14535-3	AH-2 (0-1')	Soluble	Solid	300.0	25209
880-14535-4	AH-2 (1.5-2')	Soluble	Solid	300.0	25209
880-14535-5	AH-3 (0-1')	Soluble	Solid	300.0	25209
880-14535-6	AH-3 (1.5-2')	Soluble	Solid	300.0	25209
880-14535-7	H-1 (0-5')	Soluble	Solid	300.0	25209
880-14535-8	H-2 (0-0.5')	Soluble	Solid	300.0	25209

Client: Tetra Tech, Inc.

Job ID: 880-14535-1

Project/Site: PWS-Rice SWD (F-29 SWD)

SDG: Lea County, New Mexico

HPLC/IC (Continued)

Analysis Batch: 25486 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-14535-9	H-3 (0-0.5')	Soluble	Solid	300.0	25209
880-14535-10	H-4 (0-0.5')	Soluble	Solid	300.0	25209
MB 880-25209/1-A	Method Blank	Soluble	Solid	300.0	25209
LCS 880-25209/2-A	Lab Control Sample	Soluble	Solid	300.0	25209
LCSD 880-25209/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25209
880-14535-1 MS	AH1 (0-2')	Soluble	Solid	300.0	25209
880-14535-1 MSD	AH1 (0-2')	Soluble	Solid	300.0	25209

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Project/Site: PWS-Rice SWD (F-29 SWD)

Client Sample ID: AH1 (0-2')

Lab Sample ID: 880-14535-1

Date Collected: 05/06/22 08:00 Date Received: 05/09/22 12:00 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	25601	05/16/22 09:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25595	05/16/22 16:16	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25746	05/17/22 13:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25357	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25229	05/10/22 18:43	SM	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	25209	05/09/22 16:54	SC	XEN MID
Soluble	Analysis	300.0		5			25486	05/13/22 03:17	CH	XEN MID

Lab Sample ID: 880-14535-2

Date Collected: 05/06/22 08:30

Client Sample ID: AH-1 (1.5-2')

Date Received: 05/09/22 12:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	25601	05/16/22 09:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25595	05/16/22 16:37	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25746	05/17/22 13:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25357	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25229	05/10/22 20:32	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25209	05/09/22 16:54	SC	XEN MID
Soluble	Analysis	300.0		1			25486	05/13/22 03:41	CH	XEN MID

Client Sample ID: AH-2 (0-1')

Lab Sample ID: 880-14535-3

Date Collected: 05/06/22 09:00 Date Received: 05/09/22 12:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25601	05/16/22 09:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25595	05/16/22 16:58	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25746	05/17/22 13:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25357	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25229	05/10/22 19:27	SM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	25209	05/09/22 16:54	SC	XEN MID
Soluble	Analysis	300.0		1			25486	05/13/22 03:49	CH	XEN MID

Client Sample ID: AH-2 (1.5-2')

Lab Sample ID: 880-14535-4

Date Collected: 05/06/22 09:30

Matrix: Solid

Date	Received:	05/09/22	12:00
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	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25601	05/16/22 09:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25595	05/16/22 17:19	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25746	05/17/22 13:45	AJ	XEN MID

Client: Tetra Tech, Inc.

Project/Site: PWS-Rice SWD (F-29 SWD)

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Client Sample ID: AH-2 (1.5-2')

Date Collected: 05/06/22 09:30 Date Received: 05/09/22 12:00 Lab Sample ID: 880-14535-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			25357	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25229	05/10/22 19:05	SM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	25209	05/09/22 16:54	SC	XEN MID
Soluble	Analysis	300.0		1			25486	05/13/22 03:58	CH	XEN MID

Client Sample ID: AH-3 (0-1') Lab Sample ID: 880-14535-5 Date Collected: 05/06/22 10:00 **Matrix: Solid**

Date Received: 05/09/22 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	25601	05/16/22 09:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25595	05/16/22 17:39	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25746	05/17/22 13:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25357	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25229	05/10/22 20:10	SM	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	25209	05/09/22 16:54	SC	XEN MID
Soluble	Analysis	300.0		5			25486	05/13/22 04:06	CH	XEN MID

Client Sample ID: AH-3 (1.5-2') Lab Sample ID: 880-14535-6

Date Collected: 05/06/22 10:30

Date Received: 05/09/22 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	25601	05/16/22 09:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25595	05/16/22 18:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25746	05/17/22 13:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25357	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25270	05/10/22 11:04	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25229	05/10/22 20:53	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25209	05/09/22 16:54	SC	XEN MID
Soluble	Analysis	300.0		1			25486	05/13/22 04:30	CH	XEN MID

Lab Sample ID: 880-14535-7 Client Sample ID: H-1 (0-5')

Date Collected: 05/06/22 10:00 Date Received: 05/09/22 12:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	25601	05/16/22 09:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25595	05/16/22 18:21	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25746	05/17/22 13:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25357	05/11/22 13:40	SM	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g	10 mL	25270 25229	05/10/22 11:04 05/10/22 19:48	DM SM	XEN MID XEN MID

Eurofins Midland

Matrix: Solid

Matrix: Solid

Client: Tetra Tech, Inc.

Project/Site: PWS-Rice SWD (F-29 SWD)

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Client Sample ID: H-1 (0-5')

Date Collected: 05/06/22 10:00 Date Received: 05/09/22 12:00 Lab Sample ID: 880-14535-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	25209	05/09/22 16:54	SC	XEN MID
Soluble	Analysis	300.0		1			25486	05/13/22 04:38	CH	XEN MID

Client Sample ID: H-2 (0-0.5')

Date Collected: 05/06/22 11:30

Date Received: 05/09/22 12:00

Lab Sample ID: 880-14535-8	ab Sam	ple ID:	880-1	4535-8
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Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	25601	05/16/22 09:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25595	05/16/22 18:42	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25746	05/17/22 13:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25357	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25316	05/11/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25321	05/11/22 15:01	SM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25209	05/09/22 16:54	SC	XEN MID
Soluble	Analysis	300.0		1			25486	05/13/22 04:47	CH	XEN MID

Client Sample ID: H-3 (0-0.5') Lab Sample ID: 880-14535-9

Date Collected: 05/06/22 13:30

Date Received: 05/09/22 12:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	25603	05/16/22 09:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25595	05/17/22 05:44	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25746	05/17/22 13:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25357	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25316	05/11/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25321	05/11/22 15:23	SM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	25209	05/09/22 16:54	SC	XEN MID
Soluble	Analysis	300.0		1			25486	05/13/22 04:55	CH	XEN MID

Client Sample ID: H-4 (0-0.5')

Date Collected: 05/06/22 14:00

Date Received: 05/09/22 12:00

Lab Sample ID:	880-14535-10
	Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	25601	05/16/22 09:24	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	25595	05/16/22 20:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			25746	05/17/22 13:45	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			25357	05/11/22 13:40	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	25316	05/11/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25321	05/11/22 15:45	SM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25209	05/09/22 16:54	SC	XEN MID
Soluble	Analysis	300.0		1			25486	05/13/22 05:03	CH	XEN MID

Lab Chronicle

Client: Tetra Tech, Inc.

Project/Site: PWS-Rice SWD (F-29 SWD)

Job ID: 880-14535-1 SDG: Lea County, New Mexico

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Tetra Tech, Inc.

Job ID: 880-14535-1

Project/Site: PWS-Rice SWD (F-29 SWD)

SDG: Lea County, New Mexico

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		rogram	Identification Number	Expiration Date	
exas		ELAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report hi	it the laboratory is not certifi	ed by the governing authority. This list ma	v include analytes for	
the agency does not of	• •	at the laboratory is not certifi	ed by the governing authority. This list his	ay include analytes lo	
0 ,	• •	Matrix	Analyte	ay include analytes to	
the agency does not of	fer certification.	•	, , ,	ay include analytes lo	

Method Summary

Client: Tetra Tech, Inc.

Project/Site: PWS-Rice SWD (F-29 SWD)

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
Ol Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Tetra Tech, Inc.

Project/Site: PWS-Rice SWD (F-29 SWD)

Job ID: 880-14535-1

SDG: Lea County, New Mexico

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
880-14535-1	AH1 (0-2')	Solid	05/06/22 08:00	05/09/22 12:00
880-14535-2	AH-1 (1.5-2')	Solid	05/06/22 08:30	05/09/22 12:00
880-14535-3	AH-2 (0-1')	Solid	05/06/22 09:00	05/09/22 12:00
880-14535-4	AH-2 (1.5-2')	Solid	05/06/22 09:30	05/09/22 12:00
880-14535-5	AH-3 (0-1')	Solid	05/06/22 10:00	05/09/22 12:00
880-14535-6	AH-3 (1.5-2')	Solid	05/06/22 10:30	05/09/22 12:00
880-14535-7	H-1 (0-5')	Solid	05/06/22 10:00	05/09/22 12:00
880-14535-8	H-2 (0-0.5')	Solid	05/06/22 11:30	05/09/22 12:00
880-14535-9	H-3 (0-0.5')	Solid	05/06/22 13:30	05/09/22 12:00
880-14535-10	H-4 (0-0.5')	Solid	05/06/22 14:00	05/09/22 12:00

Analysis Request	Analysis Request of Chain of Custody Record			Page. 1 of 1
responsive and	Tetra Tech, Inc.		901 West Wall Street, Suite 100 Midland, Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946	14535
Client Name:	Permian Water Solutions	Site Manager:	Brittany Long	
Project Name:	PWS - Rice SWD (F-29 SWD)	Contact Info:	Email brittany long@tetratech com Phone (432) 741-5813	To an analysis of the second s
Project Location:	Lea County, New Mexico	Project #:	919C-MD-09753	

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Accounts, con	Tetra Tech, Inc.			9	901 West Wall Street Midland, Texas Tel (432) 682 Fax (432) 682	est W Idlani Tel (4	West Wall Stree Midland, Texas Tel (432) 682- Fax (432) 682-	treet, treet, kas 79 82-45	t, Suite 100 79701 4559 -3946										The same of the sa	2	(5)	4535	Ćν!	9	١ ،	1				
Client Name:	Permian Water Solutions	Site Manager:		Brittany Long	y Lon	g							- 1								[]			= 1			1		1	
Project Name:	PWS - Rice SWD (F-29 SWD)	Contact Info:		Email brittany long@tetrat Phone (432) 741-5813	britta (432	ny lor) 741	ng@t	etrate	tech com																					
Project Location: (county, state)	Lea County, New Mexico	Project #:		212C-MD-02753	MD-02	2753										8º-1	<u> </u>	4535	Chain		3≣	of Custody	ğ =	`						
Invoice to:	PWS Dusty McInturff dmcinturff@dufrane com			1																		—							'	
Receiving Laboratory:	Eurofins	Sampler Signature:	ature:	Ą	Adrian Garcıa	àarcıa		1				MDO	1011(0)	e Hg	Se Hg										ached lis					
Comments:										l	60B	OBO	0110	Cr Pb S	Cr Pb 9				625						see atta					
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(LAB USE)		DATE	TIME	WATER SOIL		HCL HNO₃	ICE	NONE	# CONT	FILTERE	BTEX 802	TPH TX10	PAH 8270	Total Meta	TCLP Met	TCLP Vola	TCLP Sem	GC/MS Vo	GC/MS Se	PCB's 808	NORM	PLM (Asbe	Chloride 3	Chloride	General W	Anion/Cation	PH 8015		IOLD	
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Login Sample Receipt Checklist

Client: Tetra Tech, Inc. Job Number: 880-14535-1

SDG Number: Lea County, New Mexico

List Source: Eurofins Midland

Login Number: 14535 List Number: 1 Creator: Teel, Brianna

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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

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**

COMMENTS

Action 111643

COMMENTS

Operator:	OGRID:
Permian Water Solutions, LLC	373626
PO Box 2106	Action Number:
Midland, TX 79702	111643
	Action Type:
	[C-141] Release Corrective Action (C-141)

COMMENTS

Created By		Comment Date
jharimon	Initial to remediation	6/7/2022

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CONDITIONS

Action 111643

CONDITIONS

Operator:	OGRID:
Permian Water Solutions, LLC	373626
PO Box 2106	Action Number:
Midland, TX 79702	111643
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Submitted report accepted as information only. Proceed with additional delineation and workplan development. Submit workplan via the OCD permitting portal by 6/9/2023.	3/8/2023