

SITE INFORMATION

Report Type: Closure Report 1RP-5560

General Site Information:

Site:	Tres Equis State 2H				
Company:	Cimarex Energy				
Section, Township and Range	Unit C	Sec. 06	T 24S	R 33E	
API No:	30-025-40183				
County:	Lea County				
GPS:	32.253516°			-103.613769°	
Surface Owner:	State				
Mineral Owner:					
Directions:	From the intersection of CR 2-A and 128, head west on 128 for 1.66 miles, turn right (north) onto unnamed lease road, and go 2.87 miles, keep to the right at the fork and go north for 0.46 miles, keep to the right and go east for 0.3 miles, keep to the left and continue east for 250 feet and arrive on location.				

Release Data:

Date Released:	6/5/2019
Type Release:	Produced Water
Source of Contamination:	Flowline
Fluid Released:	10 bbls
Fluids Recovered:	0 bbls

Official Communication:

Name:	Christine Alderman		Clair Gonzales
Company:	Cimarex Energy		Tetra Tech
Address:	600 N. Marienfield St.		901 W. Wall St.
	Ste 600		Ste 100
City:	Midland Texas, 79701		Midland, Texas, 79701
Phone number:	(432) 853-7059		(432) 687-8123
Fax:			
Email:	calderman@cimarex.com		Clair.Gonzales@Tetrattech.com

Site Characterization

Depth to Groundwater:	>100' below surface
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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	20,000 mg/kg



August 22, 2019

Christine Alderman
ESH Supervisor – Permian Basin
Cimarex Energy
600 N. Marienfeld St.
Midland, Texas 79701

Re: Closure Report for the Cimarex Energy, Tres Equis State 2H, Unit C, Section 06, Township 24 South, Range 33 East, Lea County, New Mexico. 1RP-5560

Ms. Alderman:

Tetra Tech, Inc. (Tetra Tech) was contacted by Cimarex Energy (Cimarex) to prepare a closure report for a spill at the Tres Equis State 2H, Unit C, Section 06, Township 24 South, Range 33 East, Lea County, New Mexico (site). The spill site coordinates are 32.253516°, -103.613769°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release was discovered on June 5, 2019, and released approximately ten (10) barrels of produced water due to the development of a hole in a water transfer polyline. No fluids were recovered. The release occurred on the pad area and a pipeline right of way (ROW), measuring approximately 60' x 85'. The initial C-141 Form is included in Appendix A.

Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances and the site is in a low karst potential area. The nearest well is listed on the USGS National Water Information System in Section 35, Township 23 South, Range 32 East, approximately 1.68 miles northwest of the site, and has a reported depth to groundwater of 487 feet below ground surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is approximately 200'-300' below surface. The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, 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 depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg (GRO + DRO) and 2,500 mg/kg (GRO + DRO + MRO). Additionally, based on the reported depth to groundwater in the area, the proposed RRAL for chlorides is 20,000 mg/kg.

Soil Assessment and Analytical Results

On July 18, 2019, Tetra Tech personnel were onsite to evaluate and sample the release area. Six (6) auger holes (AH-1, AH-2, AH-3, AH-4, AH-5, and AH-6) were installed in the spill foot print to total depths of 5.0'-5.5' below surface. Four horizontal delineation samples (North Horizontal, South Horizontal, East, Horizontal, and West Horizontal) were also collected. Selected samples were analyzed for TPH analysis by EPA Method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The sample locations are shown in Figure 3.

Referring to Table 1, all analyzed samples showed benzene, total BTEX, TPH, and chloride concentrations below the RRAL's.

Conclusion

Based on the laboratory results and the location of the release on the facilities pad and ROW, Cimarex requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment activities for this site, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

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

Clair Gonzales, PG
Project Manager

A handwritten signature in blue ink that reads 'Johnathon Kell'.

Johnathon Kell,
Geologist

Tables

Table 1
Cimarex
Tres Equis State 2H
Lea County, New Mexico

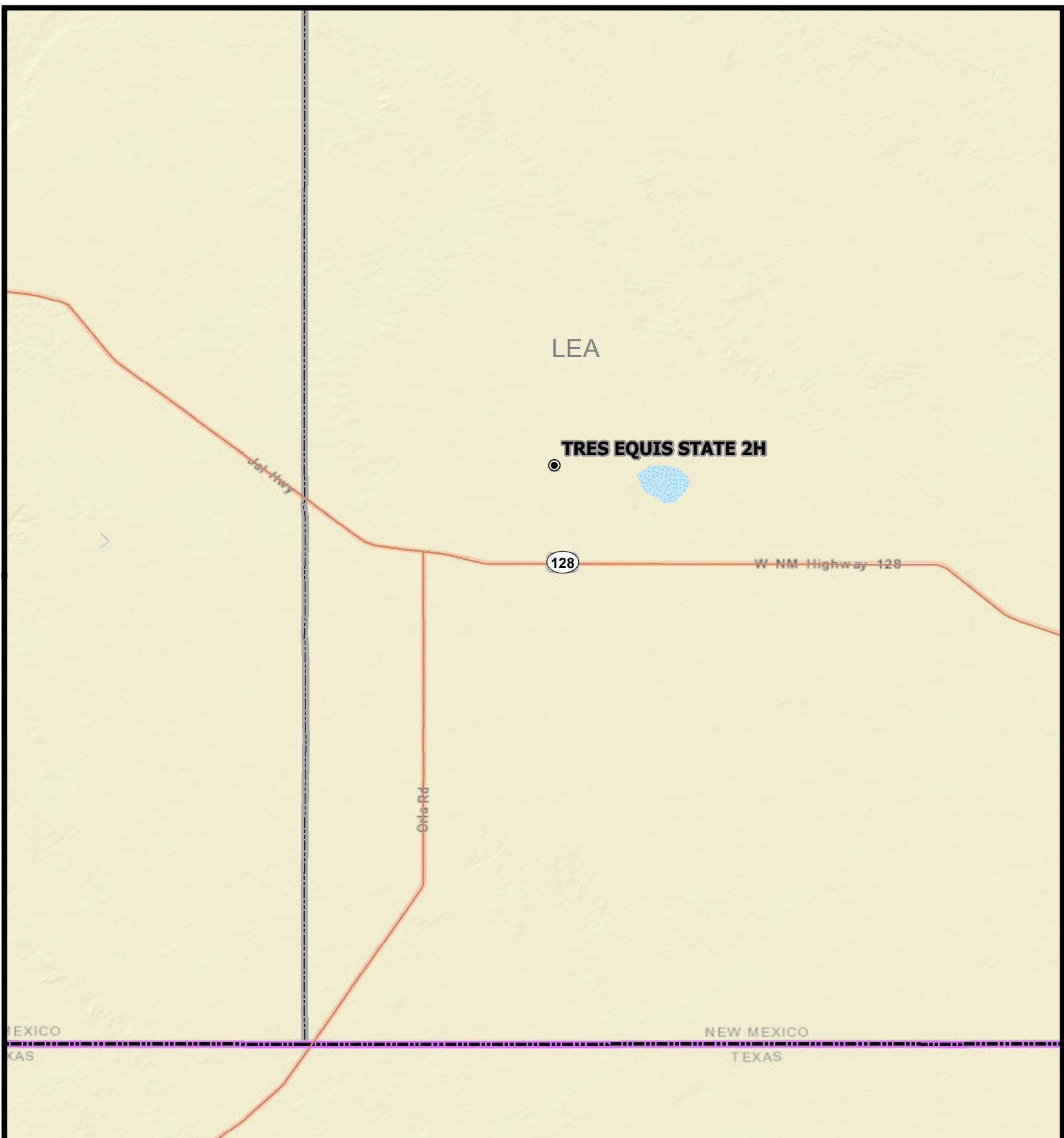
[illegible]

Table 1
Cimarex
Tres Equis State 2H
Lea County, New Mexico

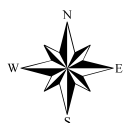
Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	ORO	Total						
AH-5	7/18/2019	0-6"	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	20.4
	"	1-1.5'	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	1.64
	"	2-2.5'	X		-	-	-	-	-	-	-	-	-	ND
	"	3-3.5'	X		-	-	-	-	-	-	-	-	-	4.43
	"	4-4.5'	X		-	-	-	-	-	-	-	-	-	1.54
	"	5-5.5'	X		-	-	-	-	-	-	-	-	-	1.1
AH-6	7/18/2019	0-6"	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	1.51
	"	1-1.5'	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	"	2-2.5'	X		-	-	-	-	-	-	-	-	-	ND
		3-3.5'	X		-	-	-	-	-	-	-	-	-	2.86
		4-4.5'	X		-	-	-	-	-	-	-	-	-	3.64
	"	5-5.5'	X		-	-	-	-	-	-	-	-	-	3.7
North Horizontal	7/18/2019	0-6"	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	1.21
South Horizontal	7/18/2019	0-6"	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	2.64
East Horizontal	7/18/2019	0-6"	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
West Horizontal	7/18/2019	0-6"	X		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

(-) Not Analyzed
ND Not Detected

Figures



SITE LOCATION



0 10,416.5 20,833

Approximate Scale in Feet

Service Layer Credits: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community



STATE LOCATOR MAP

**SPILL ASSESSMENT MAP
TRES EQUIS STATE 2H**

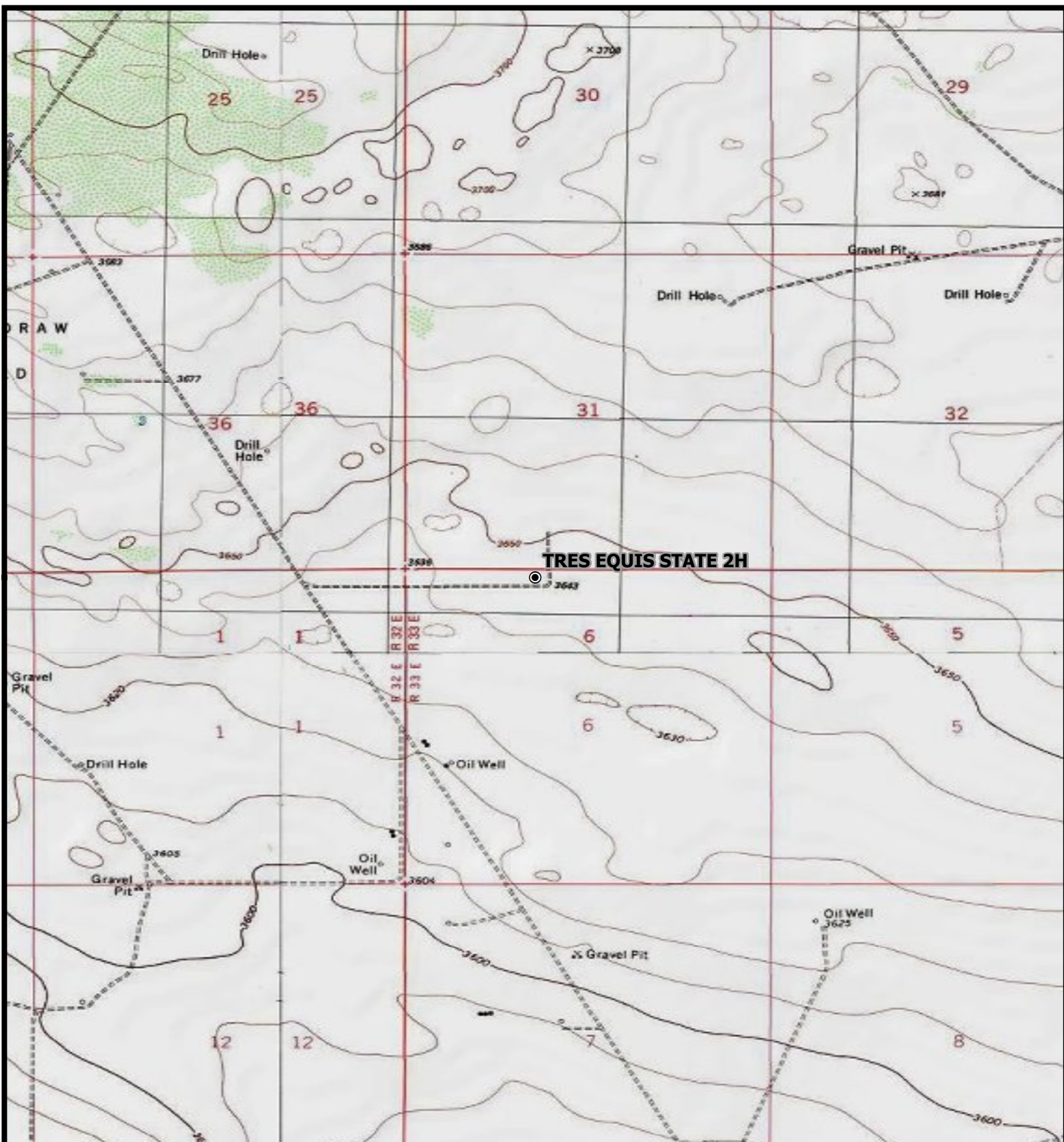
Property Located at coordinates 32.253516°,-103.613769°
LEA COUNTY, NEW MEXICO



Project #:
212C-MD-01830

**FIGURE
1**

Document Path: C:\Users\MISTI\MORGAN\Desktop\project folder\212C-MD-01830 TRES EQUIS STATE 2H\IMXD\212C-MD-01830 FIG. 2.mxd



● SITE LOCATION

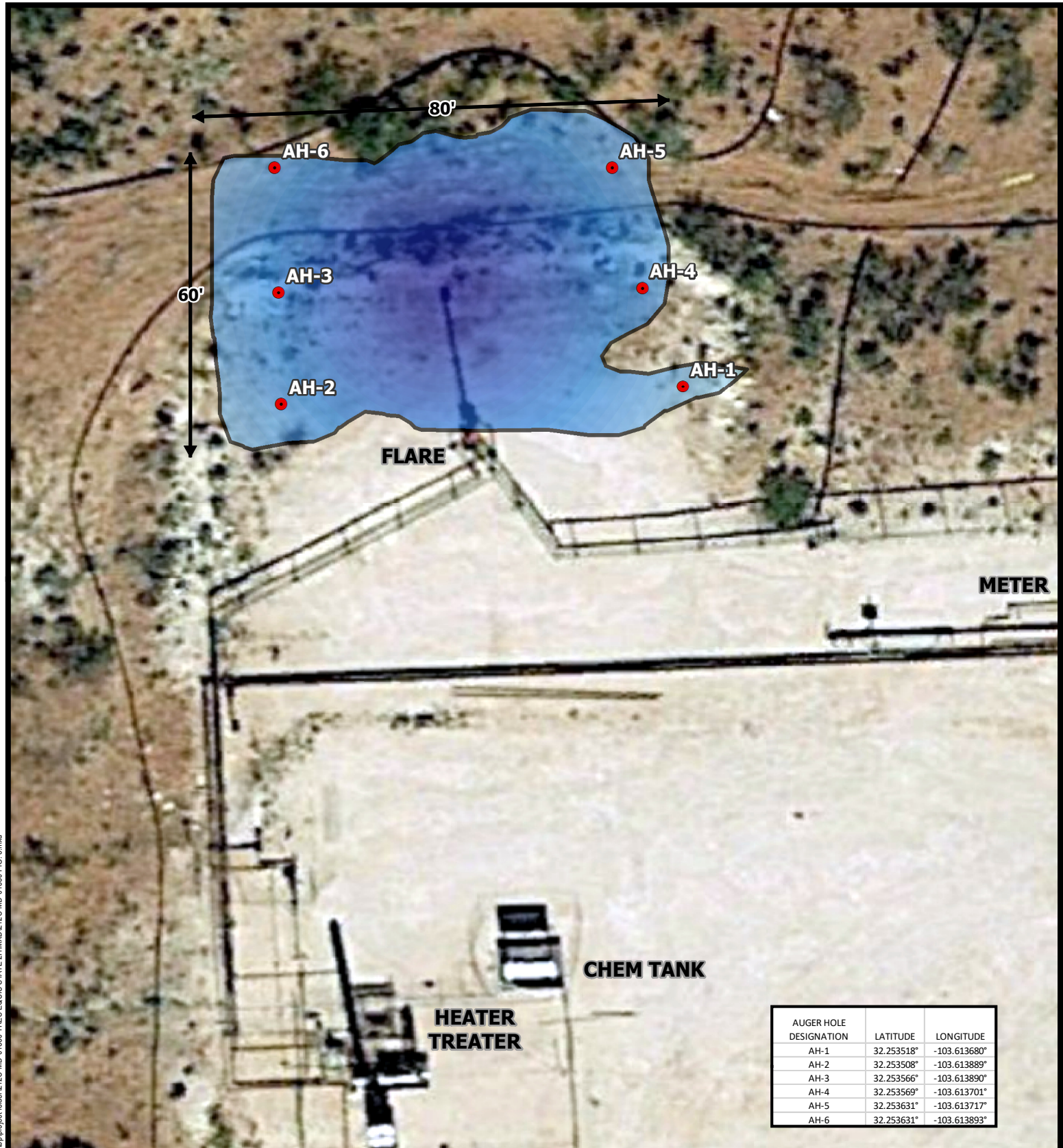


0 1,000 2,000
Approximate Scale in Feet

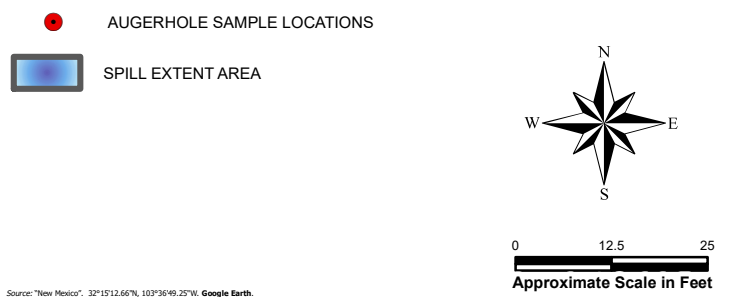
TOPOGRAPHIC MAP
TRES EQUIS STATE 2H
Property Located at coordinates 32.253516°,-103.613769°
LEA COUNTY, NEW MEXICO



FIGURE
2



AUGER HOLE DESIGNATION	LATITUDE	LONGITUDE
AH-1	32.253518°	-103.613680°
AH-2	32.253508°	-103.613889°
AH-3	32.253566°	-103.613890°
AH-4	32.253569°	-103.613701°
AH-5	32.253631°	-103.613717°
AH-6	32.253631°	-103.613893°



SPILL ASSESSMENT MAP
TRES EQUIS STATE 2H
 Property Located at coordinates 32.253516°,-103.613769°
 LEA COUNTY, NEW MEXICO

FIGURE
3

Photos

Cimarex Energy
Tres Equis State 2H
Lea County, New Mexico



TETRA TECH



Area of Release – View South



Area of Release – View Southeast

Cimarex Energy
Tres Equis State 2H
Lea County, New Mexico



TETRA TECH



Area of Release – View Northwest



Area of Release – View Southeast

Appendix A

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	NDHR1917156677
District RP	1RP-5560
Facility ID	
Application ID	pDHR1917156344

Release Notification

Responsible Party

Responsible Party Cimarex Energy	OGRID 215099
Contact Name Christine Alderman	Contact Telephone 432-853-7059
Contact email calderman@cimarex.com	Incident # (assigned by OCD)
Contact mailing address 600 N Marienfeld Ste 60, Midland, TX 79701	

Location of Release Source

Latitude 32.253587 Longitude -103.613699
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Tres Equis State 2H	Site Type production battery
Date Release Discovered 6/5/2019	API# (if applicable) 30-025-40183

Unit Letter	Section	Township	Range	County
C	06	24S	33E	Lea

Surface Owner: ☒ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)
DHR incorrect
6/20/19

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 10	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A poly line used for water transfer developed a hole and released produced water onto the location.


State of New Mexico
Oil Conservation Division

Incident ID	NDHR1917156677
District RP	1RP-5560
Facility ID	
Application ID	pDHR1917156344

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Christine Alderman</u>	Title: <u>ESH Supervisor</u>
Signature: <u></u>	Date: <u>6/7/2019</u>
email: <u>calderman@cimarex.com</u>	Telephone: <u>432-853-7059</u>
<u>OCD Only</u>	
Received by: <u>Dylan Rose-Coss</u>	Date: <u>06/20/2019</u>

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

<p>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input type="checkbox"/> Field data<input type="checkbox"/> Data table of soil contaminant concentration data<input type="checkbox"/> Depth to water determination<input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input type="checkbox"/> Photographs including date and GIS information<input type="checkbox"/> Topographic/Aerial maps<input type="checkbox"/> Laboratory data including chain of custody
--

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

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____
Signature: _____ Date: _____
email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Cimarex - Tres Equis State 2H

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

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

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

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

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

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

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

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

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

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
- 90 Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD - Groundwater Data
- 121 Abandoned Waterwell (recently measured)



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

[USGS Water Resources](#)

Data Category:


Groundwater ▼

Geographic Area:

New Mexico ▼

GO

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

site_no list =

- 321555103381501

Minimum number of levels = 1

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

USGS 321555103381501 23S.32E.35.224111

Available data for this site

Groundwater: Field measurements ▼

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°15'59.0", Longitude 103°38'17.6" NAD83

Land-surface elevation 3,678.00 feet above NGVD29

The depth of the well is 700 feet below land surface.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

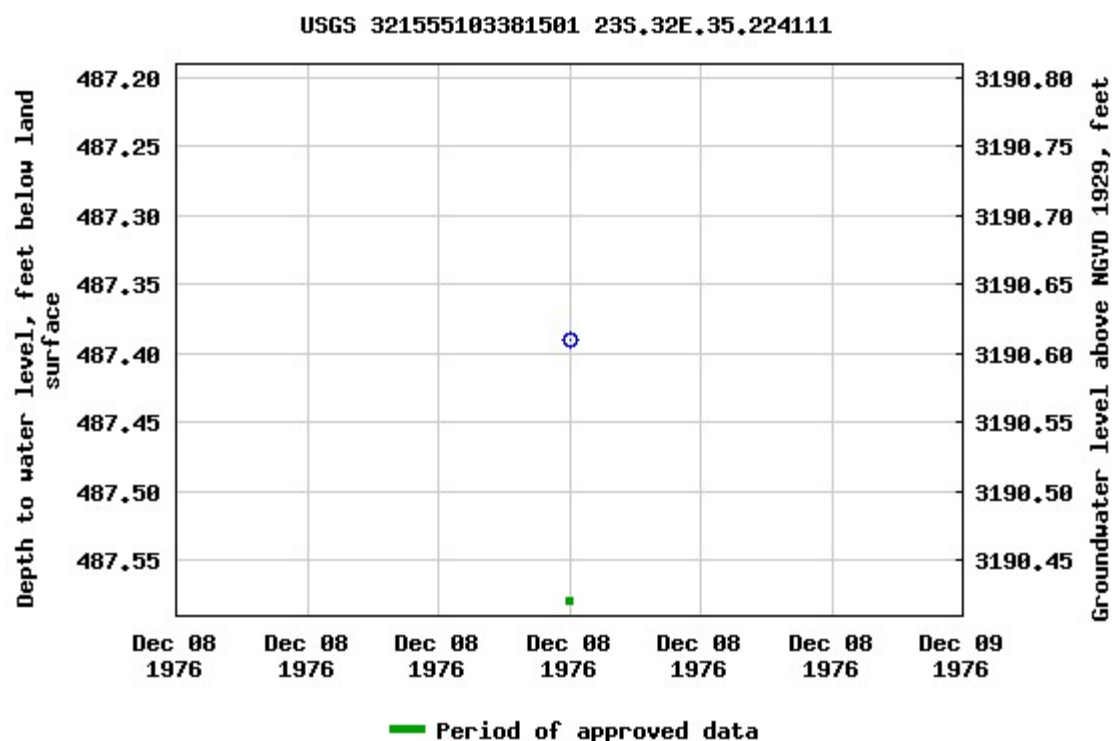
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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

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Title: Groundwater for New Mexico: Water Levels

URL: [https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?site_no=321555103381501)



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

Page Last Modified: 2019-08-06 16:03:52 EDT

0.98 0.9 nadww02

Cimarex - Tres Equis State 2H

Karst Potential

Legend

- High
- Low
- Medium
- Tres Equis

Atoka

Carlsbad

Loving

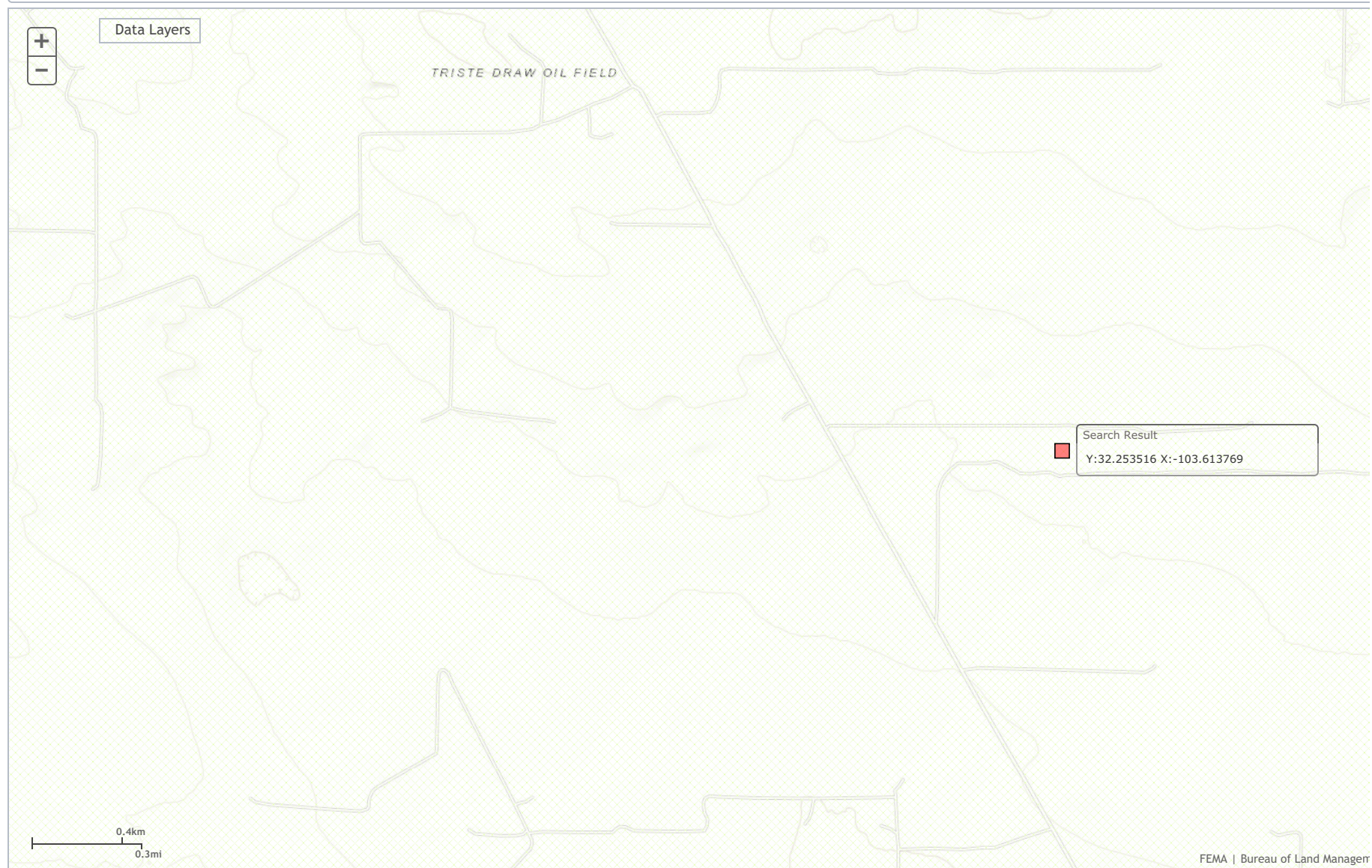
Tres Equis

Google Earth

© 2018 Google
Image Landsat / Copernicus

20 mi

NFHL Web Mapping Application



Appendix C

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

John Kell
Tetra Tech
901 W Wall Street, Ste 100
Midland, TX 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Location: Lea County, NM
Lab Order Number: 9G23021



NELAP/TCEQ # T104704516-18-9

Report Date: 07/31/19

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH 1 @ 0-1'	9G23021-01	Soil	07/18/19 00:00	07-23-2019 11:09
AH 1 @ 1-1.5'	9G23021-02	Soil	07/18/19 00:00	07-23-2019 11:09
AH 1 @ 2-2.5'	9G23021-03	Soil	07/18/19 00:00	07-23-2019 11:09
AH 1 @ 3-3.5'	9G23021-04	Soil	07/18/19 00:00	07-23-2019 11:09
AH 1 @ 4-4.5'	9G23021-05	Soil	07/18/19 00:00	07-23-2019 11:09
AH 1 @ 5-5.5'	9G23021-06	Soil	07/18/19 00:00	07-23-2019 11:09
AH 2 @ 0-1'	9G23021-07	Soil	07/18/19 00:00	07-23-2019 11:09
AH 2 @ 1-1.5'	9G23021-08	Soil	07/18/19 00:00	07-23-2019 11:09
AH 2 @ 2-2.5'	9G23021-09	Soil	07/18/19 00:00	07-23-2019 11:09
AH 2 @ 3-3.5'	9G23021-10	Soil	07/18/19 00:00	07-23-2019 11:09
AH 2 @ 4-4.5'	9G23021-11	Soil	07/18/19 00:00	07-23-2019 11:09
AH 2 @ 5-5.5'	9G23021-12	Soil	07/18/19 00:00	07-23-2019 11:09
AH 3 @ 0-1'	9G23021-13	Soil	07/18/19 00:00	07-23-2019 11:09
AH 3 @ 1-1.5'	9G23021-14	Soil	07/18/19 00:00	07-23-2019 11:09
AH 3 @ 2-2.5'	9G23021-15	Soil	07/18/19 00:00	07-23-2019 11:09
AH 3 @ 3-3.5'	9G23021-16	Soil	07/18/19 00:00	07-23-2019 11:09
AH 3 @ 4-4.5'	9G23021-17	Soil	07/18/19 00:00	07-23-2019 11:09
AH 3 @ 5-5.5'	9G23021-18	Soil	07/18/19 00:00	07-23-2019 11:09
AH 4 @ 0-1'	9G23021-19	Soil	07/18/19 00:00	07-23-2019 11:09
AH 4 @ 1-1.5'	9G23021-20	Soil	07/18/19 00:00	07-23-2019 11:09
AH 4 @ 2-2.5'	9G23021-21	Soil	07/18/19 00:00	07-23-2019 11:09
AH 4 @ 3-3.5'	9G23021-22	Soil	07/18/19 00:00	07-23-2019 11:09
AH 4 @ 4-4.5'	9G23021-23	Soil	07/18/19 00:00	07-23-2019 11:09
AH 4 @ 5-5.5'	9G23021-24	Soil	07/18/19 00:00	07-23-2019 11:09
AH 5 @ 0-1'	9G23021-25	Soil	07/18/19 00:00	07-23-2019 11:09
AH 5 @ 1-1.5'	9G23021-26	Soil	07/18/19 00:00	07-23-2019 11:09
AH 5 @ 2-2.5'	9G23021-27	Soil	07/18/19 00:00	07-23-2019 11:09
AH 5 @ 3-3.5'	9G23021-28	Soil	07/18/19 00:00	07-23-2019 11:09
AH 5 @ 4-4.5'	9G23021-29	Soil	07/18/19 00:00	07-23-2019 11:09
AH 5 @ 5-5.5'	9G23021-30	Soil	07/18/19 00:00	07-23-2019 11:09
AH 6 @ 0-1'	9G23021-31	Soil	07/18/19 00:00	07-23-2019 11:09
AH 6 @ 1-1.5'	9G23021-32	Soil	07/18/19 00:00	07-23-2019 11:09
AH 6 @ 2-2.5'	9G23021-33	Soil	07/18/19 00:00	07-23-2019 11:09
AH 6 @ 3-3.5'	9G23021-34	Soil	07/18/19 00:00	07-23-2019 11:09

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ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH 6 @ 4-4.5'	9G23021-35	Soil	07/18/19 00:00	07-23-2019 11:09
AH 6 @ 5-5.5'	9G23021-36	Soil	07/18/19 00:00	07-23-2019 11:09

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AH 1 @ 0-1'
9G23021-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		102 %	75-125		P9G2405	07/24/19	07/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		87.8 %	75-125		P9G2405	07/24/19	07/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	338	1.06	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		83.0 %	70-130		P9G2509	07/25/19	07/27/19	TPH 8015M	
Surrogate: o-Terphenyl		89.4 %	70-130		P9G2509	07/25/19	07/27/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	07/25/19	07/27/19	calc	

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AH 1 @ 1-1.5'
9G23021-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.1 %	75-125		P9G2405	07/24/19	07/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		113 %	75-125		P9G2405	07/24/19	07/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	90.8	1.10	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	9.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		82.0 %	70-130		P9G2509	07/25/19	07/27/19	TPH 8015M	
Surrogate: o-Terphenyl		87.3 %	70-130		P9G2509	07/25/19	07/27/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	07/25/19	07/27/19	calc	

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AH 1 @ 2-2.5'
9G23021-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	10.2	1.09	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

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AH 1 @ 3-3.5'
9G23021-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.63	1.05	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

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AH 1 @ 4-4.5'
9G23021-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.80	1.09	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0
% Moisture	8.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216

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AH 1 @ 5-5.5'
9G23021-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	11.5	1.09	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

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AH 2 @ 0-1'
9G23021-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00109	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		92.1 %	75-125		P9G2405	07/24/19	07/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.2 %	75-125		P9G2405	07/24/19	07/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	786	1.09	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	8.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		79.9 %	70-130		P9G2509	07/25/19	07/27/19	TPH 8015M	
Surrogate: o-Terphenyl		88.7 %	70-130		P9G2509	07/25/19	07/27/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	07/25/19	07/27/19	calc	

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AH 2 @ 1-1.5'
9G23021-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P9G2405	07/24/19	07/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P9G2405	07/24/19	07/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.7 %	75-125		P9G2405	07/24/19	07/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	19.3	1.02	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P9G2509	07/25/19	07/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		80.4 %	70-130		P9G2509	07/25/19	07/27/19	TPH 8015M	
Surrogate: o-Terphenyl		84.5 %	70-130		P9G2509	07/25/19	07/27/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	07/25/19	07/27/19	calc	

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AH 2 @ 2-2.5'
9G23021-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	16.7	1.02	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

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AH 2 @ 3-3.5'
9G23021-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	19.7	1.02	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

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AH 2 @ 4-4.5'
9G23021-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	18.9	1.02	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 2 @ 5-5.5'
9G23021-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	21.2	1.05	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 3 @ 0-1'
9G23021-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00110	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		110 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.0 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	147	1.10	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	9.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C12-C28	268	27.5	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C28-C35	35.7	27.5	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		83.8 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: o-Terphenyl		90.9 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	304	27.5	mg/kg dry	1	[CALC]	07/25/19	07/27/19	calc	

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AH 3 @ 1-1.5'
9G23021-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00105	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.0 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		115 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	967	1.05	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		82.8 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: o-Terphenyl		84.6 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	07/25/19	07/27/19	calc	

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Midland TX, 79705

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Project Number: 212C-MD-01830
Project Manager: John Kell

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AH 3 @ 2-2.5'
9G23021-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	487	1.05	mg/kg dry	1	P9G2802	07/28/19	07/29/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 3 @ 3-3.5'
9G23021-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	2040	5.15	mg/kg dry	5	P9G2803	07/28/19	07/29/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216

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AH 3 @ 4-4.5'
9G23021-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	4160	5.21	mg/kg dry	5	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 3 @ 5-5.5'
9G23021-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	7030	10.6	mg/kg dry	10	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 4 @ 0-1'
9G23021-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00120	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Toluene	ND	0.00120	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Ethylbenzene	ND	0.00120	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00241	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (o)	ND	0.00120	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.2 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	73.7	1.20	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	17.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	30.1	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C12-C28	ND	30.1	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C28-C35	ND	30.1	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		79.9 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: o-Terphenyl		85.6 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	30.1	mg/kg dry	1	[CALC]	07/25/19	07/27/19	calc	

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AH 4 @ 1-1.5'
9G23021-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.1 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		111 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.39	1.01	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	1.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		80.8 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: o-Terphenyl		84.0 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	07/25/19	07/27/19	calc	

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AH 4 @ 2-2.5'
9G23021-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	6.60	1.01	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	1.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 4 @ 3-3.5'
9G23021-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.54	1.00	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 4 @ 4-4.5'
9G23021-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	4.73	1.02	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 4 @ 5-5.5'
9G23021-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.15	1.05	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 5 @ 0-1'
9G23021-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.4 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	20.4	1.04	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		80.6 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: o-Terphenyl		84.5 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	07/25/19	07/27/19	calc	

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AH 5 @ 1-1.5'
9G23021-26 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00102	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Toluene	ND	0.00102	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Ethylbenzene	ND	0.00102	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00204	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (o)	ND	0.00102	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.5 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.64	1.02	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	2.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.5	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C12-C28	ND	25.5	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
>C28-C35	ND	25.5	mg/kg dry	1	P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: 1-Chlorooctane		81.5 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Surrogate: o-Terphenyl		88.3 %	70-130		P9G2510	07/25/19	07/27/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.5	mg/kg dry	1	[CALC]	07/25/19	07/27/19	calc	

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AH 5 @ 2-2.5'
9G23021-27 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	1.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 5 @ 3-3.5'
9G23021-28 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	4.43	1.05	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 5 @ 4-4.5'
9G23021-29 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.54	1.05	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	5.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 5 @ 5-5.5'
9G23021-30 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.11	1.06	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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AH 6 @ 0-1'
9G23021-31 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.2 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		116 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.51	1.03	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9G2511	07/25/19	07/25/19	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P9G2511	07/25/19	07/25/19	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P9G2511	07/25/19	07/25/19	TPH 8015M	
Surrogate: 1-Chlorooctane		84.9 %	70-130		P9G2511	07/25/19	07/25/19	TPH 8015M	
Surrogate: o-Terphenyl		90.9 %	70-130		P9G2511	07/25/19	07/25/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	07/25/19	07/25/19	calc	

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AH 6 @ 1-1.5'
9G23021-32 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00101	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Toluene	ND	0.00101	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Ethylbenzene	ND	0.00101	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (p/m)	ND	0.00202	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Xylene (o)	ND	0.00101	mg/kg dry	1	P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		112 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.8 %	75-125		P9G2405	07/24/19	07/25/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.01	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	1.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.3	mg/kg dry	1	P9G2511	07/25/19	07/25/19	TPH 8015M	
>C12-C28	ND	25.3	mg/kg dry	1	P9G2511	07/25/19	07/25/19	TPH 8015M	
>C28-C35	ND	25.3	mg/kg dry	1	P9G2511	07/25/19	07/25/19	TPH 8015M	
Surrogate: 1-Chlorooctane		86.4 %	70-130		P9G2511	07/25/19	07/25/19	TPH 8015M	
Surrogate: o-Terphenyl		90.2 %	70-130		P9G2511	07/25/19	07/25/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.3	mg/kg dry	1	[CALC]	07/25/19	07/25/19	calc	

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Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

AH 6 @ 2-2.5'
9G23021-33 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.03	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0	
% Moisture	3.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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Project Manager: John Kell

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AH 6 @ 3-3.5'
9G23021-34 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.86	1.03	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216

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AH 6 @ 4-4.5'
9G23021-35 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	3.64	1.05	mg/kg dry	1	P9G2803	07/28/19	07/29/19	EPA 300.0
% Moisture	5.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216

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Midland TX, 79705

Project: Tres Equis 2 St
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AH 6 @ 5-5.5'
9G23021-36 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	3.74	1.08	mg/kg dry	1	P9G2907	07/29/19	07/29/19	EPA 300.0	
% Moisture	7.0	0.1	%	1	P9G2501	07/25/19	07/25/19	ASTM D2216	

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2405 - General Preparation (GC)

Blank (P9G2405-BLK1)

Prepared & Analyzed: 07/24/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.125</i>		<i>"</i>	<i>0.120</i>		<i>104</i>	<i>75-125</i>			
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.108</i>		<i>"</i>	<i>0.120</i>		<i>89.8</i>	<i>75-125</i>			

LCS (P9G2405-BS1)

Prepared & Analyzed: 07/24/19

Benzene	0.111	0.00100	mg/kg wet	0.100		111	70-130			
Toluene	0.117	0.00100	"	0.100		117	70-130			
Ethylbenzene	0.112	0.00100	"	0.100		112	70-130			
Xylene (p/m)	0.212	0.00200	"	0.200		106	70-130			
Xylene (o)	0.113	0.00100	"	0.100		113	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.132</i>		<i>"</i>	<i>0.120</i>		<i>110</i>	<i>75-125</i>			
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.143</i>		<i>"</i>	<i>0.120</i>		<i>119</i>	<i>75-125</i>			

LCS Dup (P9G2405-BSD1)

Prepared & Analyzed: 07/24/19

Benzene	0.112	0.00100	mg/kg wet	0.100		112	70-130	1.62	20	
Toluene	0.114	0.00100	"	0.100		114	70-130	2.96	20	
Ethylbenzene	0.116	0.00100	"	0.100		116	70-130	3.44	20	
Xylene (p/m)	0.225	0.00200	"	0.200		113	70-130	5.93	20	
Xylene (o)	0.113	0.00100	"	0.100		113	70-130	0.177	20	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.124</i>		<i>"</i>	<i>0.120</i>		<i>103</i>	<i>75-125</i>			
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.137</i>		<i>"</i>	<i>0.120</i>		<i>114</i>	<i>75-125</i>			

Calibration Blank (P9G2405-CCB2)

Prepared: 07/24/19 Analyzed: 07/25/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
<i>Surrogate: 1,4-Difluorobenzene</i>	<i>0.112</i>		<i>"</i>	<i>0.120</i>		<i>93.0</i>	<i>75-125</i>			
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>0.134</i>		<i>"</i>	<i>0.120</i>		<i>112</i>	<i>75-125</i>			

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Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2405 - General Preparation (GC)

Calibration Check (P9G2405-CCV2)

Prepared: 07/24/19 Analyzed: 07/25/19

Benzene	0.0992	0.00100	mg/kg wet	0.100		99.2	80-120			
Toluene	0.112	0.00100	"	0.100		112	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.235	0.00200	"	0.200		117	80-120			
Xylene (o)	0.110	0.00100	"	0.100		110	80-120			
Surrogate: 4-Bromofluorobenzene	0.128		"	0.120		107	75-125			
Surrogate: 1,4-Difluorobenzene	0.137		"	0.120		114	75-125			

Calibration Check (P9G2405-CCV3)

Prepared: 07/24/19 Analyzed: 07/25/19

Benzene	0.119	0.00100	mg/kg wet	0.100		119	80-120			
Toluene	0.119	0.00100	"	0.100		119	80-120			
Ethylbenzene	0.119	0.00100	"	0.100		119	80-120			
Xylene (p/m)	0.222	0.00200	"	0.200		111	80-120			
Xylene (o)	0.118	0.00100	"	0.100		118	80-120			
Surrogate: 1,4-Difluorobenzene	0.134		"	0.120		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.131		"	0.120		110	75-125			

Matrix Spike (P9G2405-MS1)

Source: 9G23020-09

Prepared: 07/24/19 Analyzed: 07/25/19

Benzene	0.0730	0.00108	mg/kg dry	0.108	ND	67.9	80-120			QM-05
Toluene	0.0810	0.00108	"	0.108	ND	75.3	80-120			QM-05
Ethylbenzene	0.0857	0.00108	"	0.108	ND	79.7	80-120			QM-05
Xylene (p/m)	0.196	0.00215	"	0.215	ND	91.2	80-120			
Xylene (o)	0.0873	0.00108	"	0.108	ND	81.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.151		"	0.129		117	75-125			
Surrogate: 4-Bromofluorobenzene	0.139		"	0.129		108	75-125			

Matrix Spike Dup (P9G2405-MSD1)

Source: 9G23020-09

Prepared: 07/24/19 Analyzed: 07/25/19

Benzene	0.0559	0.00108	mg/kg dry	0.108	ND	52.0	80-120	26.5	20	QM-05
Toluene	0.0678	0.00108	"	0.108	ND	63.1	80-120	17.6	20	QM-05
Ethylbenzene	0.0747	0.00108	"	0.108	ND	69.4	80-120	13.8	20	QM-05
Xylene (p/m)	0.195	0.00215	"	0.215	ND	90.6	80-120	0.567	20	
Xylene (o)	0.0813	0.00108	"	0.108	ND	75.6	80-120	7.19	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.161		"	0.129		125	75-125			
Surrogate: 1,4-Difluorobenzene	0.150		"	0.129		117	75-125			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2404 - * DEFAULT PREP *****

Blank (P9G2404-BLK1)

Prepared & Analyzed: 07/24/19

% Moisture ND 0.1 %

Duplicate (P9G2404-DUP1)

Source: 9G23009-01

Prepared & Analyzed: 07/24/19

% Moisture 5.0 0.1 % 2.0 85.7 20

Duplicate (P9G2404-DUP2)

Source: 9G23019-09

Prepared & Analyzed: 07/24/19

% Moisture 10.0 0.1 % 10.0 0.00 20

Duplicate (P9G2404-DUP3)

Source: 9G23021-10

Prepared & Analyzed: 07/24/19

% Moisture 2.0 0.1 % 2.0 0.00 20

Batch P9G2501 - * DEFAULT PREP *****

Blank (P9G2501-BLK1)

Prepared & Analyzed: 07/25/19

% Moisture ND 0.1 %

Duplicate (P9G2501-DUP1)

Source: 9G23021-36

Prepared & Analyzed: 07/25/19

% Moisture 7.0 0.1 % 7.0 0.00 20

Duplicate (P9G2501-DUP2)

Source: 9G23024-13

Prepared & Analyzed: 07/25/19

% Moisture ND 0.1 % ND 20

Duplicate (P9G2501-DUP3)

Source: 9G24009-01

Prepared & Analyzed: 07/25/19

% Moisture 1.0 0.1 % 1.0 0.00 20

Duplicate (P9G2501-DUP4)

Source: 9G24018-02

Prepared & Analyzed: 07/25/19

% Moisture 6.0 0.1 % 5.0 18.2 20

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Project Manager: John Kell

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2802 - * DEFAULT PREP *****

Blank (P9G2802-BLK1)

Prepared & Analyzed: 07/28/19

Chloride	ND	1.00	mg/kg wet
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LCS (P9G2802-BS1)

Prepared & Analyzed: 07/28/19

Chloride	202	1.00	mg/kg wet	200	101	80-120
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LCS Dup (P9G2802-BSD1)

Prepared & Analyzed: 07/28/19

Chloride	198	1.00	mg/kg wet	200	98.8	80-120	2.34	20
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Calibration Blank (P9G2802-CCB1)

Prepared & Analyzed: 07/28/19

Chloride	0.00		mg/kg wet
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Calibration Blank (P9G2802-CCB2)

Prepared: 07/28/19 Analyzed: 07/29/19

Chloride	0.00		mg/kg wet
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Calibration Check (P9G2802-CCV1)

Prepared & Analyzed: 07/28/19

Chloride	9.89		mg/kg	10.0	98.9	0-200
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Calibration Check (P9G2802-CCV2)

Prepared: 07/28/19 Analyzed: 07/29/19

Chloride	10.3		mg/kg	10.0	103	0-200
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Calibration Check (P9G2802-CCV3)

Prepared: 07/28/19 Analyzed: 07/29/19

Chloride	10.2		mg/kg	10.0	102	0-200
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Matrix Spike (P9G2802-MS1)

Source: 9G23020-09

Prepared: 07/28/19 Analyzed: 07/29/19

Chloride	7650	10.8	mg/kg dry	1080	6590	98.9	80-120
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Matrix Spike (P9G2802-MS2)

Source: 9G23021-06

Prepared: 07/28/19 Analyzed: 07/29/19

Chloride	547	1.09	mg/kg dry	543	11.5	98.5	80-120
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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9G2802 - *** DEFAULT PREP ***										
Matrix Spike Dup (P9G2802-MSD1)		Source: 9G23020-09		Prepared: 07/28/19		Analyzed: 07/29/19				
Chloride	7550	10.8	mg/kg dry	1080	6590	90.0	80-120	1.27	20	
Matrix Spike Dup (P9G2802-MSD2)		Source: 9G23021-06		Prepared: 07/28/19		Analyzed: 07/29/19				
Chloride	527	1.09	mg/kg dry	543	11.5	94.9	80-120	3.60	20	
Batch P9G2803 - *** DEFAULT PREP ***										
Blank (P9G2803-BLK1)				Prepared: 07/28/19		Analyzed: 07/29/19				
Chloride	ND	1.00	mg/kg wet							
LCS (P9G2803-BS1)				Prepared: 07/28/19		Analyzed: 07/29/19				
Chloride	198	1.00	mg/kg wet	200		98.8	80-120			
LCS Dup (P9G2803-BSD1)				Prepared: 07/28/19		Analyzed: 07/29/19				
Chloride	202	1.00	mg/kg wet	200		101	80-120	2.03	20	
Calibration Blank (P9G2803-CCB1)				Prepared: 07/28/19		Analyzed: 07/29/19				
Chloride	0.00		mg/kg wet							
Calibration Blank (P9G2803-CCB2)				Prepared: 07/28/19		Analyzed: 07/29/19				
Chloride	0.00		mg/kg wet							
Calibration Check (P9G2803-CCV1)				Prepared: 07/28/19		Analyzed: 07/29/19				
Chloride	10.2		mg/kg	10.0		102	0-200			
Calibration Check (P9G2803-CCV2)				Prepared: 07/28/19		Analyzed: 07/29/19				
Chloride	9.90		mg/kg	10.0		99.0	0-200			

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2803 - * DEFAULT PREP *****

Calibration Check (P9G2803-CCV3)

Prepared: 07/28/19 Analyzed: 07/29/19

Chloride	10.2		mg/kg	10.0		102	0-200		
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Matrix Spike (P9G2803-MS1)

Source: 9G23021-16

Prepared: 07/28/19 Analyzed: 07/29/19

Chloride	2580	5.15	mg/kg dry	515	2040	105	80-120		
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Matrix Spike (P9G2803-MS2)

Source: 9G23021-26

Prepared: 07/28/19 Analyzed: 07/29/19

Chloride	486	1.02	mg/kg dry	510	1.64	94.9	80-120		
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Matrix Spike Dup (P9G2803-MSD1)

Source: 9G23021-16

Prepared: 07/28/19 Analyzed: 07/29/19

Chloride	2580	5.15	mg/kg dry	515	2040	105	80-120	0.0480	20
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Matrix Spike Dup (P9G2803-MSD2)

Source: 9G23021-26

Prepared: 07/28/19 Analyzed: 07/29/19

Chloride	496	1.02	mg/kg dry	510	1.64	96.9	80-120	2.11	20
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Batch P9G2907 - * DEFAULT PREP *****

Blank (P9G2907-BLK1)

Prepared & Analyzed: 07/29/19

Chloride	ND	1.00	mg/kg wet						
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LCS (P9G2907-BS1)

Prepared & Analyzed: 07/29/19

Chloride	202	1.00	mg/kg wet	200		101	80-120		
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LCS Dup (P9G2907-BSD1)

Prepared & Analyzed: 07/29/19

Chloride	202	1.00	mg/kg wet	200		101	80-120	0.282	20
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Calibration Blank (P9G2907-CCB1)

Prepared & Analyzed: 07/29/19

Chloride	0.00		mg/kg wet						
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Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

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General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P9G2907 - *** DEFAULT PREP ***										
Calibration Blank (P9G2907-CCB2)				Prepared & Analyzed: 07/29/19						
Chloride	0.00		mg/kg wet							
Calibration Check (P9G2907-CCV1)				Prepared & Analyzed: 07/29/19						
Chloride	10.2		mg/kg	10.0		102	0-200			
Calibration Check (P9G2907-CCV2)				Prepared & Analyzed: 07/29/19						
Chloride	10.3		mg/kg	10.0		103	0-200			
Calibration Check (P9G2907-CCV3)				Prepared: 07/29/19 Analyzed: 07/30/19						
Chloride	9.88		mg/kg	10.0		98.8	0-200			
Matrix Spike (P9G2907-MS1)				Source: 9G24003-01 Prepared & Analyzed: 07/29/19						
Chloride	9640	27.2	mg/kg dry	2720	7240	88.3	80-120			
Matrix Spike (P9G2907-MS2)				Source: 9G24004-02 Prepared: 07/29/19 Analyzed: 07/30/19						
Chloride	10100	28.1	mg/kg dry	2810	7190	102	80-120			
Matrix Spike Dup (P9G2907-MSD1)				Source: 9G24003-01 Prepared & Analyzed: 07/29/19						
Chloride	9790	27.2	mg/kg dry	2720	7240	93.9	80-120	1.56	20	
Matrix Spike Dup (P9G2907-MSD2)				Source: 9G24004-02 Prepared: 07/29/19 Analyzed: 07/30/19						
Chloride	10100	28.1	mg/kg dry	2810	7190	103	80-120	0.315	20	

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2509 - TX 1005

Blank (P9G2509-BLK1)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
<i>Surrogate: 1-Chlorooctane</i>	<i>87.4</i>		<i>"</i>	<i>100</i>		<i>87.4</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>45.2</i>		<i>"</i>	<i>50.0</i>		<i>90.5</i>	<i>70-130</i>			

LCS (P9G2509-BS1)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	843	25.0	mg/kg wet	1000		84.3	75-125			
>C12-C28	854	25.0	"	1000		85.4	75-125			
<i>Surrogate: 1-Chlorooctane</i>	<i>111</i>		<i>"</i>	<i>100</i>		<i>111</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>43.5</i>		<i>"</i>	<i>50.0</i>		<i>87.1</i>	<i>70-130</i>			

LCS Dup (P9G2509-BSD1)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	805	25.0	mg/kg wet	1000		80.5	75-125	4.58	20	
>C12-C28	832	25.0	"	1000		83.2	75-125	2.55	20	
<i>Surrogate: 1-Chlorooctane</i>	<i>107</i>		<i>"</i>	<i>100</i>		<i>107</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>40.9</i>		<i>"</i>	<i>50.0</i>		<i>81.8</i>	<i>70-130</i>			

Calibration Blank (P9G2509-CCB1)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	14.2		mg/kg wet							
>C12-C28	5.15		"							
<i>Surrogate: 1-Chlorooctane</i>	<i>89.2</i>		<i>"</i>	<i>100</i>		<i>89.2</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>46.8</i>		<i>"</i>	<i>50.0</i>		<i>93.7</i>	<i>70-130</i>			

Calibration Blank (P9G2509-CCB2)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	11.0		mg/kg wet							
>C12-C28	10.5		"							
<i>Surrogate: 1-Chlorooctane</i>	<i>90.4</i>		<i>"</i>	<i>100</i>		<i>90.4</i>	<i>70-130</i>			
<i>Surrogate: o-Terphenyl</i>	<i>47.5</i>		<i>"</i>	<i>50.0</i>		<i>95.0</i>	<i>70-130</i>			

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2509 - TX 1005

Calibration Check (P9G2509-CCV1)

Prepared: 07/25/19 Analyzed: 07/26/19

C6-C12	493	25.0	mg/kg wet	500		98.5	85-115			
>C12-C28	489	25.0	"	500		97.9	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	49.2		"	50.0		98.4	70-130			

Calibration Check (P9G2509-CCV2)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	509	25.0	mg/kg wet	500		102	85-115			
>C12-C28	514	25.0	"	500		103	85-115			
Surrogate: 1-Chlorooctane	115		"	100		115	70-130			
Surrogate: o-Terphenyl	50.9		"	50.0		102	70-130			

Duplicate (P9G2509-DUP1)

Source: 9G23021-09

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	14.3	25.5	mg/kg dry		13.3			7.17	20	
>C12-C28	ND	25.5	"		23.8				20	
Surrogate: 1-Chlorooctane	87.5		"	102		85.8	70-130			
Surrogate: o-Terphenyl	47.2		"	51.0		92.6	70-130			

Batch P9G2510 - TX 1005

Blank (P9G2510-BLK1)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	93.9		"	100		93.9	70-130			
Surrogate: o-Terphenyl	46.6		"	50.0		93.2	70-130			

LCS (P9G2510-BS1)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	861	25.0	mg/kg wet	1000		86.1	75-125			
>C12-C28	872	25.0	"	1000		87.2	75-125			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	44.1		"	50.0		88.3	70-130			

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2510 - TX 1005

LCS Dup (P9G2510-BSD1)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	918	25.0	mg/kg wet	1000		91.8	75-125	6.39	20	
>C12-C28	946	25.0	"	1000		94.6	75-125	8.15	20	
Surrogate: 1-Chlorooctane	123		"	100		123	70-130			
Surrogate: o-Terphenyl	46.5		"	50.0		93.0	70-130			

Calibration Blank (P9G2510-CCB1)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	16.6		mg/kg wet							
>C12-C28	7.43		"							
Surrogate: 1-Chlorooctane	97.0		"	100		97.0	70-130			
Surrogate: o-Terphenyl	50.4		"	50.0		101	70-130			

Calibration Blank (P9G2510-CCB2)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	12.9		mg/kg wet							
>C12-C28	6.98		"							
Surrogate: 1-Chlorooctane	74.9		"	100		74.9	70-130			
Surrogate: o-Terphenyl	38.1		"	50.0		76.2	70-130			

Calibration Check (P9G2510-CCV1)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	501	25.0	mg/kg wet	500		100	85-115			
>C12-C28	507	25.0	"	500		101	85-115			
Surrogate: 1-Chlorooctane	110		"	100		110	70-130			
Surrogate: o-Terphenyl	48.3		"	50.0		96.5	70-130			

Calibration Check (P9G2510-CCV2)

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	445	25.0	mg/kg wet	500		89.0	85-115			
>C12-C28	443	25.0	"	500		88.6	85-115			
Surrogate: 1-Chlorooctane	88.2		"	100		88.2	70-130			
Surrogate: o-Terphenyl	37.8		"	50.0		75.7	70-130			

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2510 - TX 1005

Duplicate (P9G2510-DUP1)

Source: 9G23021-29

Prepared: 07/25/19 Analyzed: 07/27/19

C6-C12	14.1	26.3	mg/kg dry		13.9			1.43	20	
>C12-C28	ND	26.3	"		ND				20	
Surrogate: 1-Chlorooctane	88.8		"	105		84.4	70-130			
Surrogate: o-Terphenyl	47.0		"	52.6		89.4	70-130			

Batch P9G2511 - TX 1005

Blank (P9G2511-BLK1)

Prepared & Analyzed: 07/25/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	88.0		"	100		88.0	70-130			
Surrogate: o-Terphenyl	46.6		"	50.0		93.1	70-130			

LCS (P9G2511-BS1)

Prepared & Analyzed: 07/25/19

C6-C12	840	25.0	mg/kg wet	1000		84.0	75-125			
>C12-C28	886	25.0	"	1000		88.6	75-125			
Surrogate: 1-Chlorooctane	114		"	100		114	70-130			
Surrogate: o-Terphenyl	44.8		"	50.0		89.6	70-130			

LCS Dup (P9G2511-BSD1)

Prepared & Analyzed: 07/25/19

C6-C12	820	25.0	mg/kg wet	1000		82.0	75-125	2.39	20	
>C12-C28	858	25.0	"	1000		85.8	75-125	3.23	20	
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	42.4		"	50.0		84.7	70-130			

Calibration Blank (P9G2511-CCB1)

Prepared & Analyzed: 07/25/19

C6-C12	12.6		mg/kg wet							
>C12-C28	6.35		"							
Surrogate: 1-Chlorooctane	88.5		"	100		88.5	70-130			
Surrogate: o-Terphenyl	46.9		"	50.0		93.8	70-130			

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2511 - TX 1005

Calibration Blank (P9G2511-CCB2)

Prepared & Analyzed: 07/25/19

C6-C12	11.9		mg/kg wet							
>C12-C28	15.7		"							
Surrogate: 1-Chlorooctane	95.2		"	100		95.2	70-130			
Surrogate: o-Terphenyl	50.0		"	50.0		100	70-130			

Calibration Check (P9G2511-CCV1)

Prepared & Analyzed: 07/25/19

C6-C12	453	25.0	mg/kg wet	500		90.5	85-115			
>C12-C28	466	25.0	"	500		93.2	85-115			
Surrogate: 1-Chlorooctane	102		"	100		102	70-130			
Surrogate: o-Terphenyl	46.4		"	50.0		92.9	70-130			

Calibration Check (P9G2511-CCV2)

Prepared & Analyzed: 07/25/19

C6-C12	467	25.0	mg/kg wet	500		93.4	85-115			
>C12-C28	482	25.0	"	500		96.4	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	47.0		"	50.0		94.1	70-130			

Calibration Check (P9G2511-CCV3)

Prepared: 07/25/19 Analyzed: 07/26/19

C6-C12	476	25.0	mg/kg wet	500		95.2	85-115			
>C12-C28	493	25.0	"	500		98.6	85-115			
Surrogate: 1-Chlorooctane	107		"	100		107	70-130			
Surrogate: o-Terphenyl	47.8		"	50.0		95.5	70-130			

Duplicate (P9G2511-DUP1)

Source: 9G25011-01

Prepared & Analyzed: 07/25/19

C6-C12	ND	26.0	mg/kg dry		ND				20	
>C12-C28	ND	26.0	"		ND				20	
Surrogate: 1-Chlorooctane	49.6		"	52.1		95.2	70-130			
Surrogate: o-Terphenyl	26.3		"	26.0		101	70-130			

Notes and Definitions

ROI	Received on Ice
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
BULK	Samples received in Bulk soil containers
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:



Date:

7/31/2019

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.



Tetra Tech, Inc.

901 W. Wall Street, Ste 100
Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

9623021

Client Name:

Cimarox

Site Manager:

John Kell

Project Name:

Tres Equis 2 St

Project Location:

Lea Co, NM

Project #:

212C-MN-01830

Invoice to:

Cimarox - Christine Alderman

Receiving Laboratory:

P8c

Sampler Signature:

Tony Lagarda

Comments:

Run deeper samples for BTEX Benzene if greater than 50 mg/kg TPH

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD		# CONTAINERS	FILTERED (Y/N)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃		

1	AH 1	0-1'	7/18/19		X			X	
2	AH 1	1-1.5'							
3	AH 1	2-2.5'							
4	AH 1	3-3.5'							
5	AH 1	4-4.5'							
6	AH 1	5-5.5'							
7	AH 2	0-1'							
8	AH 2	1-1.5'							
9	AH 2	2-2.5'							
10	AH 2	3-3.5'							

Relinquished by:

7/18/19 1108 AM

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

Relinquished by:

Date: Time:

Received by:

Date: Time:

ANALYSIS REQUEST

(Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	

Hold

LAB USE ONLY

REMARKS:

STANDARD

Sample Temperature

4.2

5.2

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY



Tetra Tech, Inc.

 901 W Wall Street, Ste 100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

9623021

Client Name:

Cimarron

Site Manager:

John Kell

Project Name:

Tres Equis 2 St

Project Location:

Lea Co, NM

Project #:

212C-MN-01830

Invoice to:

Cimarron - Christine Alderman

Receiving Laboratory:

PBE

Sampler Signature:

Tony Lagarda

Comments:

Run deeper sample if BTEX Benzene if greater than 50 mg/kg TPH

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD				# CONTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)
		DATE	TIME	WATER	SOIL	HCL	HNO ₃	ICE	None			
11	AH 2 4-4.5'	7/18/19		X				X		1	N	BTEX 8021B BTEX 8260B
12	AH 2 5-5.5'											TPH TX1005 (Ext to C35)
13	AH 3 0-1'											TPH 8015M (GRD - DRO - ORO - MRO)
14	AH 3 1-1.5'											PAH 8270C
15	AH 3 2-2.5'											Total Metals Ag As Ba Cd Cr Pb Se Hg
16	AH 3 3-3.5'											TCLP Metals Ag As Ba Cd Cr Pb Se Hg
17	AH 3 4-4.5'											TCLP Volatiles
18	AH 3 5-5.5'											TCLP Semi Volatiles
19	AH 4 0-1'											RCI
20	AH 4 1-1.5'											GC/MS Vol. 8260B / 624
												GC/MS Semi. Vol. 8270C/625
												PCB's 8082 / 608
												NORM
												PLM (Asbestos)
												Chloride
												Chloride Sulfate TDS
												General Water Chemistry (see attached list)
												Anion/Cation Balance
												Hold

Relinquished by:

Date: 7/18/19

Time: 11:08am

Received by:

Date: 7/23/19

Time: 11:08am

Relinquished by:

Date: 7/23/19

Time: 11:08am

Received by:

Date: 7/23/19

Time: 11:08am

Relinquished by:

Date: 7/23/19

Time: 11:08am

Received by:

Date: 7/23/19

Time: 11:08am

LAB USE ONLY

REMARKS:

☒ STANDARD

Sample Temperature

4.252

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

CF112

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Tetra Tech, Inc.

 9011W Wall Street, Ste 100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

9673021

Client Name:

Cimarex

Site Manager:

John Kell

Project Name:

Tres Equis 2 St

Project Location:

Lea Co, NM

Project #:

212C-MN-01830

Invoice to:

Cimarex - Christine Alderman

Receiving Laboratory:

PBE

Sampler Signature:

Tony Lagardg

Comments:

Run deeper samples if BTEX Benzene is greater than 50 mg/kg

SAMPLE IDENTIFICATION

LAB # (LAB USE ONLY)		DATE	TIME	WATER SOIL	HCL HNO ₃ ICE None	# CONTAINERS	FILTERED (Y/N)	LAB USE ONLY	REMARKS
21	AH 4	2-2.5'	7/8/19	X	X	1	N		
22	AH 4	3-3.5'		X	X	1	N		
23	AH 4	4-4.5'		X	X	1	N		
24	AH 4	5-5.5'		X	X	1	N		
25	AH 5	0-1'		X	X	1	N		
26	AH 5	1-1.5'		X	X	1	N		
27	AH 5	2-2.5'		X	X	1	N		
28	AH 5	3-3.5'		X	X	1	N		
29	AH 5	4-4.5'		X	X	1	N		
30	AH 5	5-5.5'		X	X	1	N		

Relinquished by:

Date: 7/8/19

Time: 11:08am

Relinquished by:

Date: 7/8/19

Time: 11:08am

Relinquished by:

Date: 7/8/19

Time: 11:08am

 ANALYSIS REQUEST
 (Circle or Specify Method No.)

BTEX 8021B	BTEX 8260B
TPH TX1005 (Ext to C35)	
TPH 8015M (GRO - DRO - ORO - MRO)	
PAH 8270C	
Total Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Metals Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles	
TCLP Semi Volatiles	
RCI	
GC/MS Vol. 8260B / 624	
GC/MS Semi. Vol. 8270C/625	
PCB's 8082 / 608	
NORM	
PLM (Asbestos)	
Chloride	
Chloride Sulfate TDS	
General Water Chemistry (see attached list)	
Anion/Cation Balance	
Hold	

LAB USE ONLY

REMARKS:

STANDARD

Sample Temperature
4.25.2

- ☒ RUSH: Same Day 24 hr 48 hr 72 hr
☐ Rush Charges Authorized
☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Tetra Tech, Inc.

 901W Wall Street, Ste. 100
 Midland, Texas 79705
 Tel (432) 682-4559
 Fax (432) 682-3946

9623021

Client Name:

Cimarron

Site Manager:

John Kell

Project Name:

Tres Equis 2 St

Project Location:

Lea Co, NM

Project #:

212C-MN-01830

Invoice to:

Cimarron - Christine Alderman

Receiving Laboratory:

PBC

Sample Signature:

Tony Lagard

Comments:

Run deeper samples for BTEX if greater than 500 mg/kg

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX	PRESERVATIVE METHOD	# CDNTAINERS	FILTERED (Y/N)	ANALYSIS REQUEST (Circle or Specify Method No.)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
		DATE	TIME					WATER	SOIL	HCL	HNO ₃	ICE	None	GC/MS Vol.	GC/MS Semi. Vol.	PCB's	NORM	Chloride	Chloride Sulfate	General Water Chem	Anion/Cation Balance																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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								BTEX 8021B	BTEX 8021C	TPH TX1005 (Ext to 1000)	TPH 8015M (GRO to 1500)	PAH 8270C	Total Metals Ag As B Cd Cr Cu Hg Mn Ni Pb Se V Zn	TCLP Metals Ag As B Cd Cr Cu Hg Mn Ni Pb Se V Zn	TCLP Volatiles	TCLP Semi Volatiles	RCI																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					</

31	AH 6	0-1		7/21/19								1	N														
32	AH 6	1-1.5'										1	N														
33	AH 6	2-2.5'										1	N														
34	AH 6	3-3.5'										1	N														
35	AH 6	4-4.5'										1	N														
36	AH 6	5-5.5'										1	N														

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	LAB USE ONLY	REMARKS:	STANDARD	Sample Temperature	4.2	5.2	CE1.19	Special Report Limits or TRRP Report
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Relinquished by:	Date:	Time:	Received by:	Date:	Time:	LAB USE ONLY	REMARKS:	STANDARD	Sample Temperature	4.2	5.2	CE1.19	Special Report Limits or TRRP Report
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Relinquished by:	Date:	Time:	Received by:	Date:	Time:	LAB USE ONLY	REMARKS:	STANDARD	Sample Temperature	4.2	5.2	CE1.19	Special Report Limits or TRRP Report
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ORIGINAL COPY

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

John Kell
Tetra Tech
901 W Wall Street, Ste 100
Midland, TX 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Location: Lea County, NM
Lab Order Number: 9G23018



NELAP/TCEQ # T104704516-18-9

Report Date: 07/30/19

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Horizontal	9G23018-01	Soil	07/18/19 00:00	07-23-2019 11:08
South Horizontal	9G23018-02	Soil	07/18/19 00:00	07-23-2019 11:08
East Horizontal	9G23018-03	Soil	07/18/19 00:00	07-23-2019 11:08
West Horizontal	9G23018-04	Soil	07/18/19 00:00	07-23-2019 11:08

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

North Horizontal
9G23018-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00103	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B
Toluene	ND	0.00103	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B
Ethylbenzene	ND	0.00103	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B
Xylene (o)	ND	0.00103	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B
Surrogate: 4-Bromofluorobenzene		99.1 %	75-125		P9G2403	07/24/19	07/24/19	EPA 8021B
Surrogate: 1,4-Difluorobenzene		88.8 %	75-125		P9G2403	07/24/19	07/24/19	EPA 8021B

General Chemistry Parameters by EPA / Standard Methods

Chloride	1.21	1.03	mg/kg dry	1	P9G2513	07/25/19	07/26/19	EPA 300.0
% Moisture	3.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M
>C12-C28	ND	25.8	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M
>C28-C35	ND	25.8	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M
Surrogate: 1-Chlorooctane		81.0 %	70-130		P9G2508	07/25/19	07/26/19	TPH 8015M
Surrogate: o-Terphenyl		85.4 %	70-130		P9G2508	07/25/19	07/26/19	TPH 8015M
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	07/25/19	07/26/19	calc

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

South Horizontal
9G23018-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00100	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Toluene	ND	0.00100	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Ethylbenzene	ND	0.00100	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00200	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Xylene (o)	ND	0.00100	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		85.9 %	75-125		P9G2403	07/24/19	07/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.2 %	75-125		P9G2403	07/24/19	07/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.64	1.00	mg/kg dry	1	P9G2513	07/25/19	07/26/19	EPA 300.0	
% Moisture	ND	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.0	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M	
>C12-C28	ND	25.0	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M	
>C28-C35	ND	25.0	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		80.5 %	70-130		P9G2508	07/25/19	07/26/19	TPH 8015M	
Surrogate: o-Terphenyl		87.0 %	70-130		P9G2508	07/25/19	07/26/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.0	mg/kg dry	1	[CALC]	07/25/19	07/26/19	calc	

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

East Horizontal
9G23018-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00104	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Toluene	ND	0.00104	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Ethylbenzene	ND	0.00104	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00208	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Xylene (o)	ND	0.00104	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.8 %	75-125		P9G2403	07/24/19	07/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.0 %	75-125		P9G2403	07/24/19	07/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.04	mg/kg dry	1	P9G2513	07/25/19	07/26/19	EPA 300.0	
% Moisture	4.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.0	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M	
>C12-C28	ND	26.0	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M	
>C28-C35	ND	26.0	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		78.2 %	70-130		P9G2508	07/25/19	07/26/19	TPH 8015M	
Surrogate: o-Terphenyl		84.0 %	70-130		P9G2508	07/25/19	07/26/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.0	mg/kg dry	1	[CALC]	07/25/19	07/26/19	calc	

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

West Horizontal
9G23018-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.

Organics by GC

Benzene	ND	0.00106	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Toluene	ND	0.00106	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Ethylbenzene	ND	0.00106	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Xylene (p/m)	ND	0.00213	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Xylene (o)	ND	0.00106	mg/kg dry	1	P9G2403	07/24/19	07/24/19	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		88.0 %	75-125		P9G2403	07/24/19	07/24/19	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.8 %	75-125		P9G2403	07/24/19	07/24/19	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	ND	1.06	mg/kg dry	1	P9G2513	07/25/19	07/26/19	EPA 300.0	
% Moisture	6.0	0.1	%	1	P9G2404	07/24/19	07/24/19	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.6	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M	
>C12-C28	ND	26.6	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M	
>C28-C35	ND	26.6	mg/kg dry	1	P9G2508	07/25/19	07/26/19	TPH 8015M	
Surrogate: 1-Chlorooctane		83.3 %	70-130		P9G2508	07/25/19	07/26/19	TPH 8015M	
Surrogate: o-Terphenyl		88.3 %	70-130		P9G2508	07/25/19	07/26/19	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.6	mg/kg dry	1	[CALC]	07/25/19	07/26/19	calc	

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2403 - General Preparation (GC)

Blank (P9G2403-BLK1)

Prepared & Analyzed: 07/24/19

Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.102		"	0.120		85.3	75-125			

LCS (P9G2403-BS1)

Prepared & Analyzed: 07/24/19

Benzene	0.117	0.00100	mg/kg wet	0.100		117	70-130			
Toluene	0.114	0.00100	"	0.100		114	70-130			
Ethylbenzene	0.110	0.00100	"	0.100		110	70-130			
Xylene (p/m)	0.226	0.00200	"	0.200		113	70-130			
Xylene (o)	0.119	0.00100	"	0.100		119	70-130			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		100	75-125			
Surrogate: 4-Bromofluorobenzene	0.109		"	0.120		90.7	75-125			

LCS Dup (P9G2403-BSD1)

Prepared & Analyzed: 07/24/19

Benzene	0.111	0.00100	mg/kg wet	0.100		111	70-130	5.34	20	
Toluene	0.112	0.00100	"	0.100		112	70-130	2.15	20	
Ethylbenzene	0.110	0.00100	"	0.100		110	70-130	0.00	20	
Xylene (p/m)	0.233	0.00200	"	0.200		117	70-130	3.07	20	
Xylene (o)	0.119	0.00100	"	0.100		119	70-130	0.0924	20	
Surrogate: 4-Bromofluorobenzene	0.112		"	0.120		93.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.119		"	0.120		98.9	75-125			

Calibration Blank (P9G2403-CCB2)

Prepared & Analyzed: 07/24/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.103		"	0.120		86.1	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		96.0	75-125			

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2403 - General Preparation (GC)

Calibration Blank (P9G2403-CCB3)

Prepared & Analyzed: 07/24/19

Benzene	0.00		mg/kg wet							
Toluene	0.00		"							
Ethylbenzene	0.00		"							
Xylene (p/m)	0.00		"							
Xylene (o)	0.00		"							
Surrogate: 1,4-Difluorobenzene	0.108		"	0.120		89.7	75-125			
Surrogate: 4-Bromofluorobenzene	0.115		"	0.120		95.8	75-125			

Calibration Check (P9G2403-CCV2)

Prepared & Analyzed: 07/24/19

Benzene	0.109	0.00100	mg/kg wet	0.100		109	80-120			
Toluene	0.106	0.00100	"	0.100		106	80-120			
Ethylbenzene	0.0984	0.00100	"	0.100		98.4	80-120			
Xylene (p/m)	0.211	0.00200	"	0.200		105	80-120			
Xylene (o)	0.117	0.00100	"	0.100		117	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.0	75-125			
Surrogate: 1,4-Difluorobenzene	0.113		"	0.120		94.4	75-125			

Calibration Check (P9G2403-CCV3)

Prepared & Analyzed: 07/24/19

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.107	0.00100	"	0.100		107	80-120			
Xylene (p/m)	0.204	0.00200	"	0.200		102	80-120			
Xylene (o)	0.113	0.00100	"	0.100		113	80-120			
Surrogate: 4-Bromofluorobenzene	0.123		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.139		"	0.120		116	75-125			

Matrix Spike (P9G2403-MS1)

Source: 9G23016-01

Prepared & Analyzed: 07/24/19

Benzene	0.0973	0.00108	mg/kg dry	0.108	ND	90.5	80-120			
Toluene	0.106	0.00108	"	0.108	ND	98.3	80-120			
Ethylbenzene	0.101	0.00108	"	0.108	ND	93.5	80-120			
Xylene (p/m)	0.235	0.00215	"	0.215	ND	109	80-120			
Xylene (o)	0.105	0.00108	"	0.108	ND	97.8	80-120			
Surrogate: 1,4-Difluorobenzene	0.144		"	0.129		112	75-125			
Surrogate: 4-Bromofluorobenzene	0.148		"	0.129		115	75-125			

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

Organics by GC - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2403 - General Preparation (GC)

Matrix Spike Dup (P9G2403-MSD1)

Source: 9G23016-01

Prepared & Analyzed: 07/24/19

Benzene	0.0945	0.00108	mg/kg dry	0.108	ND	87.9	80-120	2.90	20	
Toluene	0.105	0.00108	"	0.108	ND	97.8	80-120	0.500	20	
Ethylbenzene	0.109	0.00108	"	0.108	ND	102	80-120	8.24	20	
Xylene (p/m)	0.228	0.00215	"	0.215	ND	106	80-120	3.00	20	
Xylene (o)	0.111	0.00108	"	0.108	ND	103	80-120	5.47	20	
Surrogate: 1,4-Difluorobenzene	0.143		"	0.129		110	75-125			
Surrogate: 4-Bromofluorobenzene	0.142		"	0.129		110	75-125			

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2404 - * DEFAULT PREP *****

Blank (P9G2404-BLK1)

Prepared & Analyzed: 07/24/19

% Moisture ND 0.1 %

Duplicate (P9G2404-DUP1)

Source: 9G23009-01

Prepared & Analyzed: 07/24/19

% Moisture 5.0 0.1 % 2.0 85.7 20

Duplicate (P9G2404-DUP2)

Source: 9G23019-09

Prepared & Analyzed: 07/24/19

% Moisture 10.0 0.1 % 10.0 0.00 20

Duplicate (P9G2404-DUP3)

Source: 9G23021-10

Prepared & Analyzed: 07/24/19

% Moisture 2.0 0.1 % 2.0 0.00 20

Batch P9G2513 - * DEFAULT PREP *****

Blank (P9G2513-BLK1)

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride ND 1.00 mg/kg wet

LCS (P9G2513-BS1)

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride 200 1.00 mg/kg wet 200 100 80-120

LCS Dup (P9G2513-BSD1)

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride 205 1.00 mg/kg wet 200 103 80-120 2.50 20

Calibration Blank (P9G2513-CCB1)

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride 0.00 mg/kg wet

Calibration Blank (P9G2513-CCB2)

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride 0.00 mg/kg wet

Tetra Tech
901 W Wall Street, Ste 100
Midland TX, 79705

Project: Tres Equis 2 St
Project Number: 212C-MD-01830
Project Manager: John Kell

Fax: (432) 686-8085

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2513 - * DEFAULT PREP *****

Calibration Check (P9G2513-CCV1)

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride	10.1		mg/kg	10.0		101	0-200			
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Calibration Check (P9G2513-CCV2)

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride	9.64		mg/kg	10.0		96.4	0-200			
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Calibration Check (P9G2513-CCV3)

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride	9.68		mg/kg	10.0		96.8	0-200			
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Matrix Spike (P9G2513-MS1)

Source: 9G23016-04

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride	521	1.04	mg/kg dry	521	12.3	97.7	80-120			
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Matrix Spike (P9G2513-MS2)

Source: 9G23019-02

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride	513	1.06	mg/kg dry	532	3.02	96.0	80-120			
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Matrix Spike Dup (P9G2513-MSD1)

Source: 9G23016-04

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride	523	1.04	mg/kg dry	521	12.3	98.0	80-120	0.347	20	
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Matrix Spike Dup (P9G2513-MSD2)

Source: 9G23019-02

Prepared: 07/25/19 Analyzed: 07/26/19

Chloride	520	1.06	mg/kg dry	532	3.02	97.2	80-120	1.26	20	
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Project Manager: John Kell

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2508 - TX 1005

Blank (P9G2508-BLK1)

Prepared: 07/25/19 Analyzed: 07/26/19

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	88.8		"	100		88.8	70-130			
Surrogate: o-Terphenyl	46.4		"	50.0		92.8	70-130			

LCS (P9G2508-BS1)

Prepared: 07/25/19 Analyzed: 07/26/19

C6-C12	831	25.0	mg/kg wet	1000		83.1	75-125			
>C12-C28	867	25.0	"	1000		86.7	75-125			
Surrogate: 1-Chlorooctane	112		"	100		112	70-130			
Surrogate: o-Terphenyl	47.2		"	50.0		94.3	70-130			

LCS Dup (P9G2508-BSD1)

Prepared: 07/25/19 Analyzed: 07/26/19

C6-C12	816	25.0	mg/kg wet	1000		81.6	75-125	1.92	20	
>C12-C28	854	25.0	"	1000		85.4	75-125	1.51	20	
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	44.9		"	50.0		89.8	70-130			

Calibration Blank (P9G2508-CCB1)

Prepared: 07/25/19 Analyzed: 07/26/19

C6-C12	12.2		mg/kg wet							
>C12-C28	8.12		"							
Surrogate: 1-Chlorooctane	91.0		"	100		91.0	70-130			
Surrogate: o-Terphenyl	47.6		"	50.0		95.2	70-130			

Calibration Blank (P9G2508-CCB2)

Prepared: 07/25/19 Analyzed: 07/26/19

C6-C12	9.65		mg/kg wet							
>C12-C28	12.3		"							
Surrogate: 1-Chlorooctane	91.7		"	100		91.7	70-130			
Surrogate: o-Terphenyl	48.0		"	50.0		96.1	70-130			

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Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P9G2508 - TX 1005

Calibration Check (P9G2508-CCV1)

Prepared: 07/25/19 Analyzed: 07/26/19

C6-C12	460	25.0	mg/kg wet	500		92.0	85-115			
>C12-C28	475	25.0	"	500		95.0	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	47.7		"	50.0		95.4	70-130			

Calibration Check (P9G2508-CCV2)

Prepared: 07/25/19 Analyzed: 07/26/19

C6-C12	473	25.0	mg/kg wet	500		94.5	85-115			
>C12-C28	479	25.0	"	500		95.9	85-115			
Surrogate: 1-Chlorooctane	106		"	100		106	70-130			
Surrogate: o-Terphenyl	47.3		"	50.0		94.6	70-130			

Duplicate (P9G2508-DUP1)

Source: 9G23020-02

Prepared: 07/25/19 Analyzed: 07/26/19

C6-C12	14.4	26.0	mg/kg dry		16.7			15.1	20	
>C12-C28	ND	26.0	"		ND				20	
Surrogate: 1-Chlorooctane	83.7		"	104		80.4	70-130			
Surrogate: o-Terphenyl	44.9		"	52.1		86.3	70-130			

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Notes and Definitions

ROI Received on Ice
BULK Samples received in Bulk soil containers
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

7/30/2019

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Appendix D