

SITE INFORMATION

Report Type: Closure Report nRM2022645367 & nRM2034561113

General Site Information:

Site:	White City Trunk Line Release				
Company:	Cimarex Energy				
Section, Township and Range	Unit J	Sec. 1	T 25S	R 26E	
Lease Number:					
County:	Eddy County				
GPS:	32.158230° N			-104.243715° W	
Surface Owner:	Federal				
Mineral Owner:					
Directions:	From the intersection of HWY 128 & CR 1 (J-1), travel EAST on HWY 128 for approximately 3.0 miles, turn SOUTH onto lease road for 1.10 mi, turn WEST onto lease road for 0.60 mi to location on north side of lease road				

Release Data:

Date Released:	8/3/2020 & 11/30/2020
Type Release:	Produced Water
Source of Contamination:	Line Breaks
Fluid Released:	179 bbls
Fluids Recovered:	100 bbls

Official Communication:

Name:	Gloria Garza		Brittany Long
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) 234-3204		(432) 741-5813
Fax:			
Email:	GGarza@Cimarex.com		Brittany.Long@TetraTech.com

Site Characterization

Depth to Groundwater:	Less than 50' below surface
Karst Potential:	High

Recommended Remedial Action Levels (RRALs)

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



January 12, 2021

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

**Re: Closure Report for the Cimarex, White City Trunk Line Release(s), Unit J, Section 1, Township 25 South, Range 26 East, Eddy County, New Mexico.
OCD Incident ID# nRM2022645367
OCD Incident ID# nRM2034561113**

Oil Conservation Division:

Tetra Tech, Inc. (Tetra Tech) was contacted by Cimarex Energy (Cimarex) to assess and remediate a release that occurred at the Cimarex, White City Trunk Line, Unit J, Section 1, Township 25 South, Range 26 East, Eddy County, New Mexico (Site). The site coordinates are 32.158230°, -104.243715°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report's the releases were discovered on August 3, 2020 and November 30, 2020. On August 3, 2020, a main water line leaked due to corrosion of a valve, releasing approximately 24 barrels of produced water. None of the produced water was recovered. On November 30, 2020, during remediation activities of OCD ID (nRM2022645367), a fusion weld of a polyline broke, releasing approximately 155 barrels of produced water, creating another release, OCD ID (nRM2034561113). Approximately 100 barrels of the produced water was recovered. The release occurred along a right-of-way (ROW) and impacted areas measuring approximately 80' x 20'. The 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. However, the site is in a high karst potential area. The nearest well is listed in the USGS National Water Information Database website in Section 13, approximately 2.24 miles South of the site, and has a reported depth to groundwater of 6.24 feet below ground surface. Additionally, the releases were remediated to 7.0' below surface and no groundwater was encountered. Site characterization data is included in Appendix B.

Tetra Tech

901 W Wall Street, Suite 100, Midland, TX 79701

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



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 site characterization, the proposed RRAL for TPH is 100 mg/kg (GRO+DRO+MRO). Additionally, based on the site characterization, the proposed RRAL for chlorides is 600 mg/kg.

Remediation and Reclamation Activities

Tetra Tech personnel were onsite in November 30, 2020 through December 2, 2020, to supervise the remediation and reclamation activities as well as to collect confirmation samples. During remediation activities, a fusion weld of a surface line failed, and an additional release occurred (nRM2034561113). This release was contained, hydrovaccated, and remediated along with the original release (nRM2022645367). The impacted areas were excavated to a total depth ranging from 1.0' - 7.0' below surface, as shown on Figure 3 and Table 1.

Confirmation bottom hole and sidewall samples were collected every 200 square feet, a total of 13 bottom hole samples (Bottom Hole 1 through Bottom Hole 13) and 12 sidewall samples (Sidewall 1 through Sidewall 12) were collected to ensure proper removal of the impacted soils. The samples were submitted to the laboratory to be analyzed for TPH method 8015 extended, BTEX method 8021B, and Chloride by EPA Method 300.0. The sampling results are summarized in Table 1. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The excavation depths and sample locations are shown in Figure 3.

Referring to Table 1, all final confirmation samples collected showed benzene, total BTEX, and TPH concentrations below the laboratory reporting limits. Additionally, all final samples, showed chloride concentrations below the 600 mg/kg threshold.

Approximately 454 cubic yards of material was excavated and transported offsite for proper disposal. The areas were then backfilled with clean material to surface grade.



Conclusion

Based on the laboratory results and remediation activities performed, 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 or remediation activities for this site, please call at (432) 741-5813.

Respectfully submitted,
TETRA TECH

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

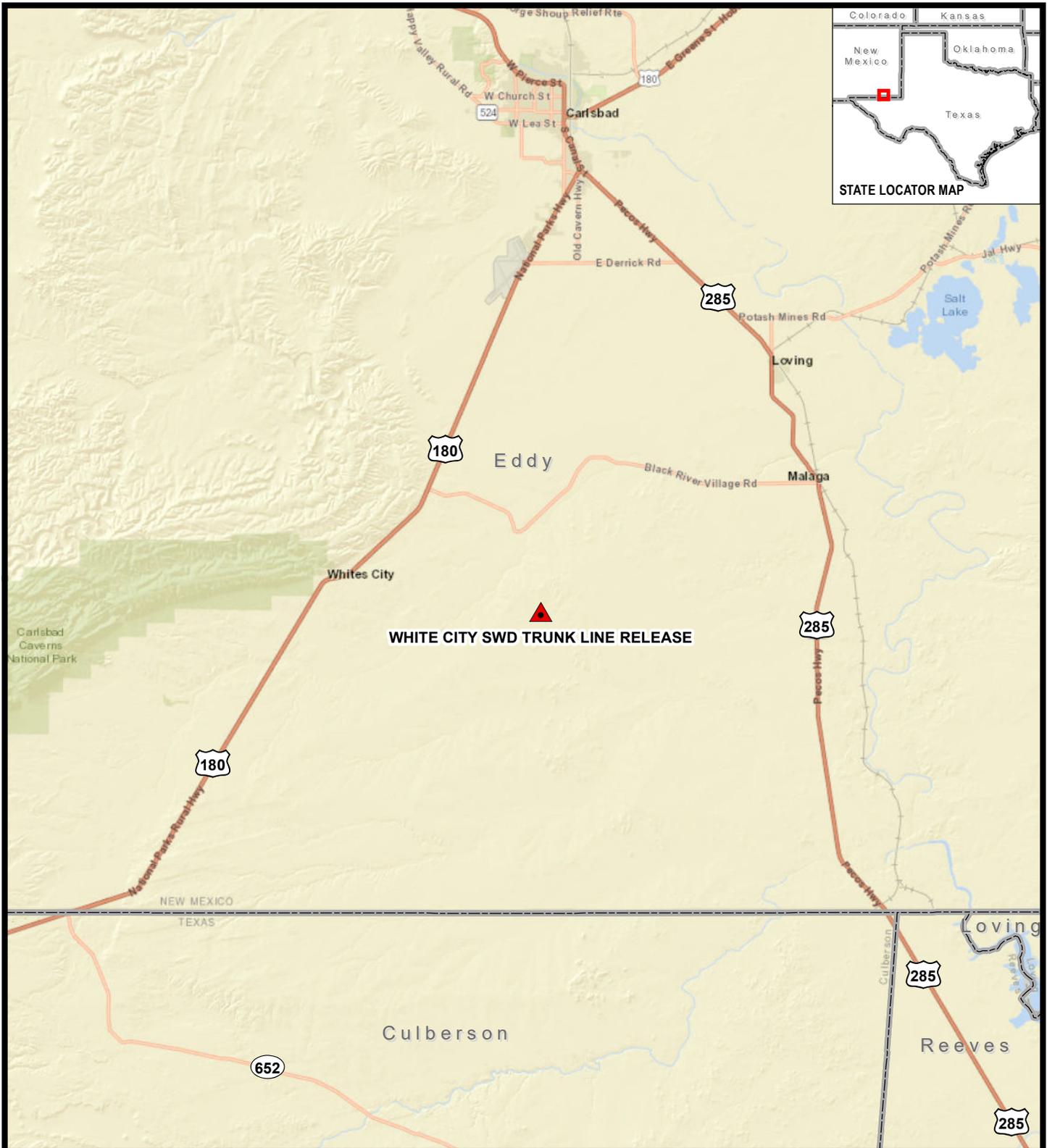
Brittany Long,
Project Manager

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

Clair Gonzales,
Senior Project Manager

cc:
Gloria Garza-Cimarex
Laci Luig-Cimarex
Stewart Wittenbach-Cimarex

Figures



 SITE LOCATION



0 2.5 5 Miles
Approximate Scale in Miles

OVERVIEW MAP
WHITE CITY SWD TRUNK LINE RELEASE
 Property Located at coordinates 32.158230°, -104.243715°
 EDDY COUNTY, NEW MEXICO

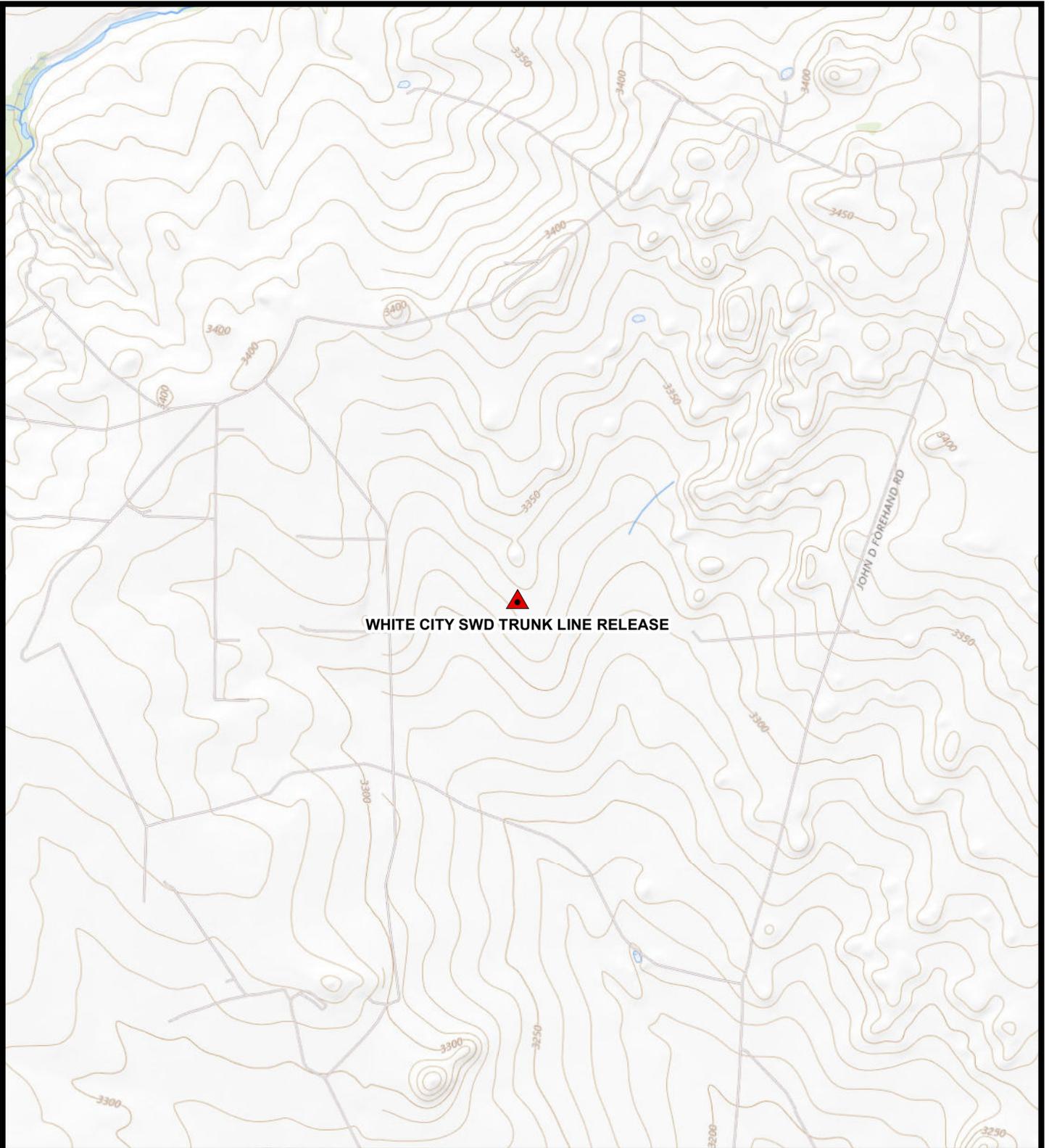


Project #:
212C-MD-02370

FIGURE
1

Source: ESRI Basemap - Streets, 2021.

C:\GIS\Cimarex\212C-MD-02370_WhiteCitySWDTrunkLine\FIG1.mxd 1/13/2021 1:18:37 PM



 SITE LOCATION



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

TOPOGRAPHIC MAP
WHITE CITY SWD TRUNK LINE RELEASE
Property Located at coordinates 32.158230°, -104.243715°
EDDY COUNTY, NEW MEXICO



Project #:
212C-MD-02370

FIGURE
2

Source: USGS, The National Map, Topo Base, 2021.

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C:\GIS\Cimarex\212C-MD-02370_WhiteCitySWDTrunkLine\FIG3.mxd 1/13/2021 1:18:37 PM

- BH** BOTTOM HOLE SAMPLE LOCATION
- SIDEWALL DESIGNATION
- 1' EXCAVATED DEPTH AREA
- 7' EXCAVATED DEPTH AREA



Source: ESRI Basemap - Imagery, 2018.

EXCAVATION DEPTH MAP
 WHITE CITY SWD TRUNK LINE RELEASE
 Property Located at coordinates 32.158230°, -104.243715°
 EDDY COUNTY, NEW MEXICO



Project #:
212C-MD-02370

FIGURE
3

Tables

Table 1
Cimarex Energy
Crescent Hale 10 Fed 3H
Eddy County, New Mexico

Sample ID	Sample Date	Excavation 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	MRO	Total						
BH-1	12/2/2020	7.0'	X	-	<26.3	<26.3	<26.3	<26.3	<0.00105	<0.00105	<0.00105	<0.00105	<0.00105	302
BH-2	12/2/2020	7.0'	X	-	<26.9	<26.9	<26.9	<26.9	<0.00108	<0.00108	<0.00108	<0.00108	<0.00108	196
BH-3	12/2/2020	7.0'	X	-	<27.2	<27.2	<27.2	<27.2	<0.00109	<0.00109	<0.00109	<0.00109	<0.00109	299
BH-4	12/2/2020	7.0'	X	-	<27.5	<27.5	<27.5	<27.5	<0.00110	<0.00110	<0.00110	<0.00110	<0.00110	463
BH-5	12/2/2020	7.0'	X	-	<27.8	<27.8	<27.8	<27.8	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	277
BH-6	12/2/2020	7.0'	X	-	<26.9	<26.9	<26.9	<26.9	<0.00108	<0.00108	<0.00108	<0.00108	<0.00108	341
BH-7	12/2/2020	7.0'	X	-	<27.5	<27.5	<27.5	<27.5	<0.00110	<0.00110	<0.00110	<0.00110	<0.00110	366
BH-8	12/2/2020	7.0'	X	-	<27.8	<27.8	<27.8	<27.8	<0.00111	<0.00111	<0.00111	<0.00111	<0.00111	11.1
BH-9	12/2/2020	1.0'	X	-	<31.2	<31.2	<31.2	<31.2	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	363
BH-10	12/2/2020	1.0'	X	-	<31.2	<31.2	<31.2	<31.2	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	399
BH-11	12/2/2020	1.0'	X	-	<31.2	<31.2	<31.2	<31.2	<0.00125	<0.00125	<0.00125	<0.00125	<0.00125	500
BH-12	12/2/2020	1.0'	X	-	<31.6	<31.6	<31.6	<31.6	<0.00127	<0.00127	<0.00127	<0.00127	<0.00127	398
BH-13	12/2/2020	1.0'	X	-	<25.8	<25.8	<25.8	<25.8	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	26.9
SW-1	12/2/2020	-	X	-	<27.2	<27.2	<27.2	<27.2	<0.00109	<0.00109	<0.00109	<0.00109	<0.00109	8.95
SW-2	12/2/2020	-	X	-	<27.2	<27.2	<27.2	<27.2	<0.00109	<0.00109	<0.00109	<0.00109	<0.00109	59.6
SW-3	12/2/2020	-	X	-	<27.5	<27.5	<27.5	<27.5	<0.00110	<0.00110	<0.00110	<0.00110	<0.00110	2.45
SW-4	12/2/2020	-	X	-	<27.2	<27.2	<27.2	<27.2	<0.00109	<0.00109	<0.00109	<0.00109	<0.00109	7.46
SW-5	12/2/2020	-	X	-	<27.5	<27.5	<27.5	<27.5	<0.00110	<0.00110	<0.00110	<0.00110	<0.00110	7.32
SW-6	12/2/2020	-	X	-	<27.5	<27.5	<27.5	<27.5	<0.00110	<0.00110	<0.00110	<0.00110	<0.00110	9.62
SW-7	12/2/2020	-	X	-	<27.2	<27.2	<27.2	<27.2	<0.00109	<0.00109	<0.00109	<0.00109	<0.00109	5.39
SW-8	12/2/2020	-	X	-	<27.5	<27.5	<27.5	<27.5	<0.00110	<0.00110	<0.00110	<0.00110	<0.00110	219
SW-9	12/2/2020	-	X	-	<25.8	<25.8	<25.8	<25.8	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	126
SW-10	12/2/2020	-	X	-	<25.8	<25.8	<25.8	<25.8	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	49.1
SW-11	12/2/2020	-	X	-	<25.8	<25.8	<25.8	<25.8	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	38.6
SW-12	12/2/2020	-	X	-	<25.8	<25.8	<25.8	<25.8	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	58.1

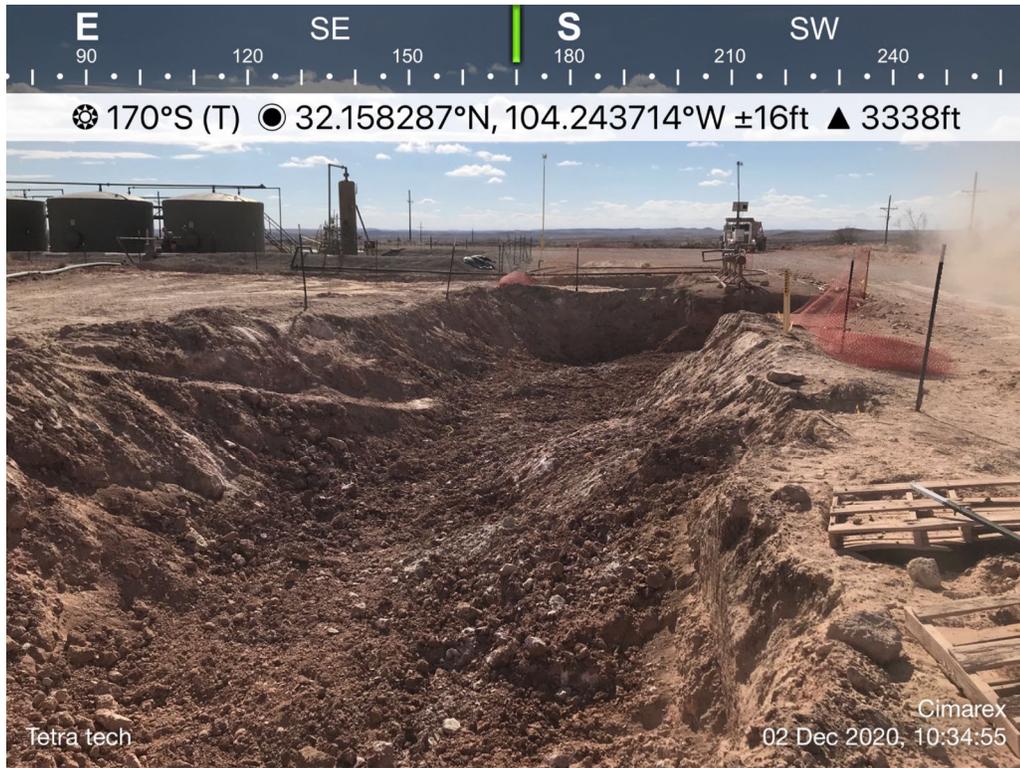
(-) Not Analyzed
 Exceedance

Photos

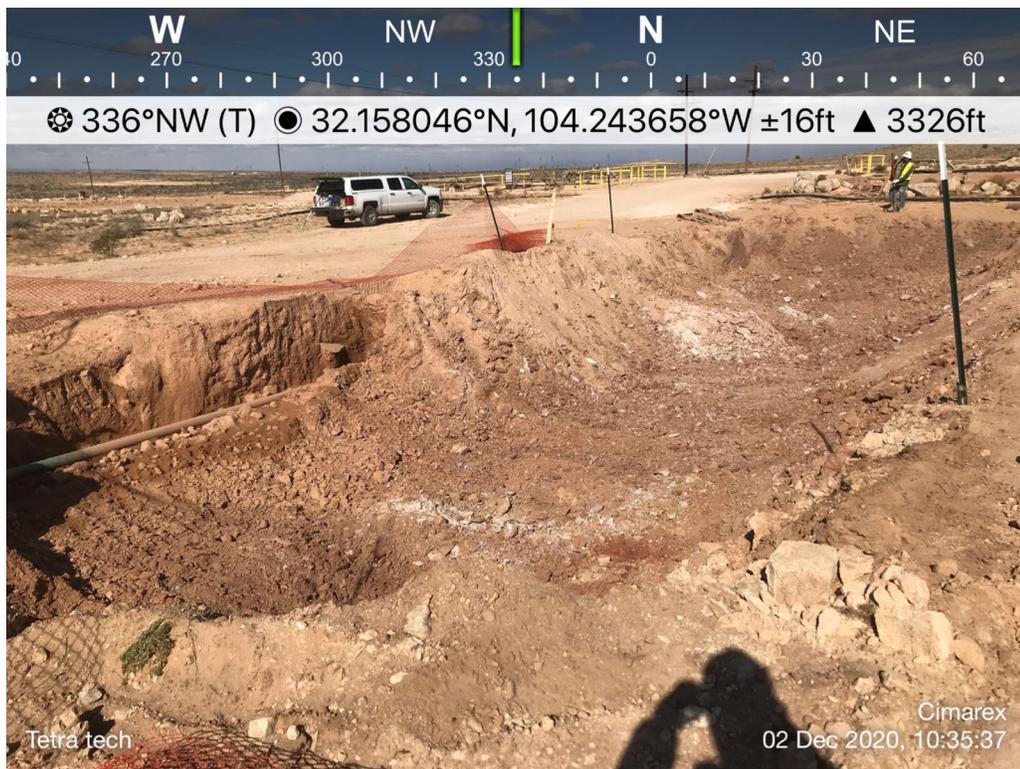
Cimarex Energy
White City Trunk Line
Eddy County, New Mexico



TETRA TECH



View of Remediation Activities – View South



View of Remediation Activities – View Northwest

Cimarex Energy
White City Trunk Line
Eddy County, New Mexico



TETRA TECH



View of Remediation Activities – View East



View of Remediation Activities – View West

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	NRM2022645367
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: lluig@cimarex.com	Incident # (assigned by OCD)
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.158230 _____ Longitude -104.243715 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: White City SWD Line	Site Type: ROW
Date Release Discovered: 8/3/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	1	25S	26E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 24	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Corrosion

We had a leak in a main water transfer line on a ROW between a butterfly valve and Victaulic clamp due to corrosion. We temporarily repaired the leak until the new Stainless Steel Warren valve, stainless check valve, and poly flanges can be installed. We released 24 barrels of produced water on the ROW and lease road but were not able to recover any fluids. All carbon steel valves and Victaulic clamps will be removed. We will delineate the impacted soil to determine pathway forward.

State of New Mexico
Oil Conservation Division

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District RP	
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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)?
 By: Gloria Garza
 To: Mike Bratcher, Robert Hamlet, Victoria Venegas and BLM NM CFO Spill
 By: Email

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 not 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: Laci Luig _____ Title: Engineer Tech. _____
 Signature:  _____ Date: 8/7/2020 _____
 email: llug@cimarex.com _____ Telephone: (432) 571-7810 _____

OCD Only
 Received by: Ramona Marcus _____ Date: 8/13/2020 _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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: gloria garza Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Cristina Eads Date: 04/03/2021

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: gloria garza Date: _____

email: _____ Telephone: _____

OCD Only

Received by: Cristina Eads Date: 04/03/2021

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: Cristina Eads Date: 04/07/2021

Printed Name: _____ Title: Environmental Specialist

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	NRM2034561113
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: lluig@cimarex.com	Incident # (assigned by OCD)
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.158230 _____ Longitude -104.243715 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: White City SWD Line	Site Type: ROW
Date Release Discovered: 11/30/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
J	1	25S	26E	Eddy

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 155	Volume Recovered (bbls) 100
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Corrosion

We had a release from a main water transfer line on a ROW. The release occurred during the remediation work for Incident nRM2022645367. We were in the process of moving the polyline out of the dig zone using a skid steer and nylon strap. The fusion point broke causing a release of 155 barrels of produced water. The water ran into an area that had already been dug out. We were able to recover 100 barrels of water. Tetra Tech will assist with the delineation and remediation.

State of New Mexico
Oil Conservation Division

Page 2

Incident ID	NRM2034561113
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The amount of the release is greater than 25 barrels.
---	---

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
 By: Gloria Garza
 To: Mike Bratcher, Robert Hamlet, Cristina Eads and BLM NM CFO Spill
 By: Email

Initial Response

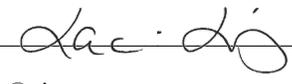
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<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 not 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: Laci Luig _____ Title: Engineer Tech. _____
 Signature:  _____ Date: 12/1/2020 _____
 email: llug@cimarex.com _____ Telephone: (432) 571-7810 _____

OCD Only
 Received by: Ramona Marcus _____ Date: 12/10/2020 _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

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: gloria garza Date: _____

email: _____ Telephone: _____

OCD Only

Cristina Eads

04/3/2021

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: gloria garza Date: _____
 email: _____ Telephone: _____

OCD Only

Cristina Eads

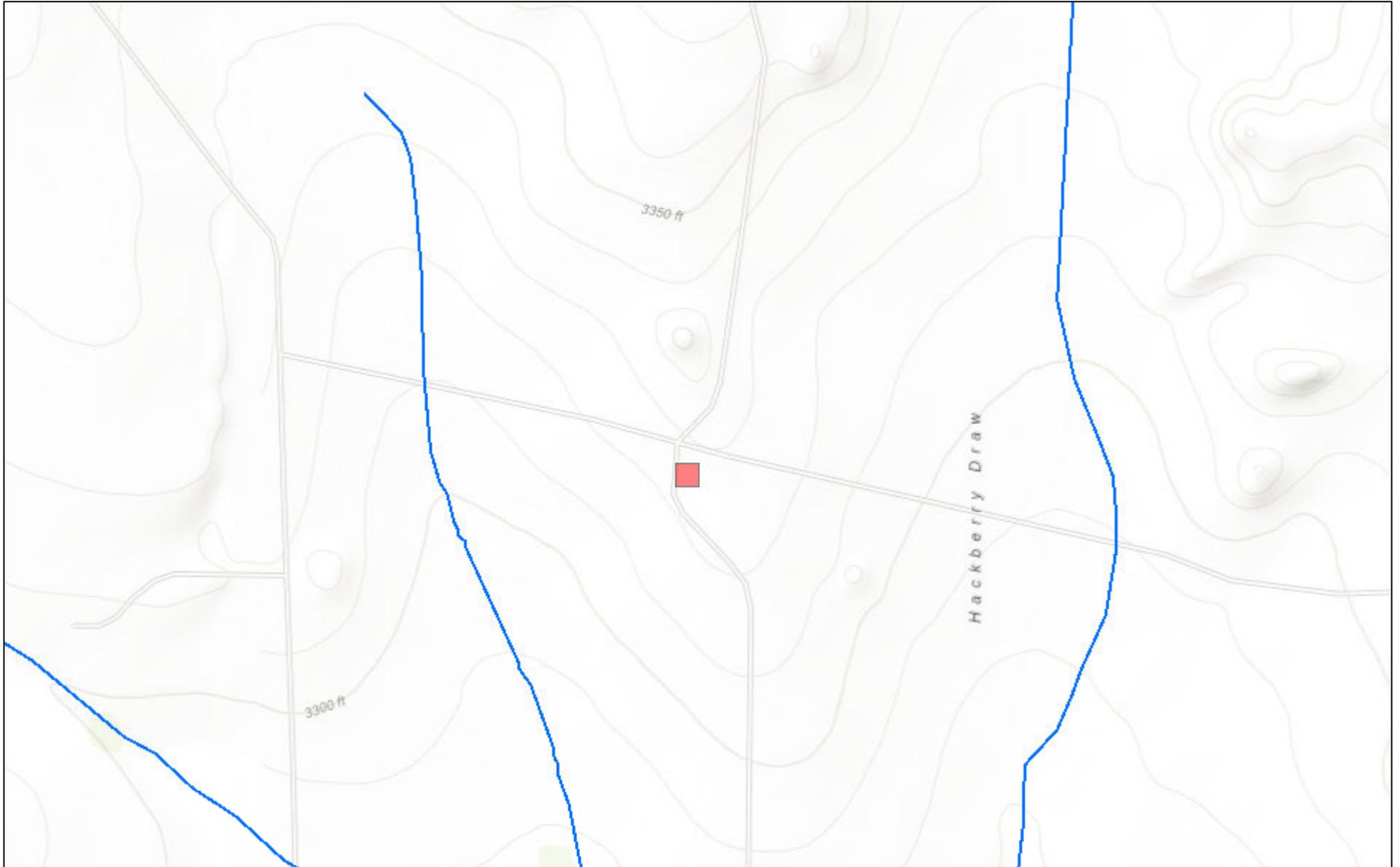
Received by: _____ Date: 04/03/2021

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.

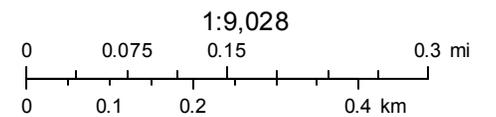
Closure Approved by: Cristina Eads Date: 04/07/2021
 Printed Name: Cristina Eads Title: Environmental Specialist

Appendix B

New Mexico NFHL Data



January 5, 2021



FEMA
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,



USGS Home
Contact USGS
Search USGS

National Water Information System: Mapper

Help Info



Site Information



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

Click to hide News Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 320737104140601

Minimum number of levels = 1

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

USGS 320737104140601 25S.26E.13.44222

Eddy County, New Mexico

Latitude 32°07'33.9", Longitude 104°14'19.1" NAD83

Land-surface elevation 3,205.00 feet above NGVD29

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water-level approval status
1983-02-01		D	8.42				2		U		A
1987-10-08		D	8.13				2		U		A
1992-11-04		D	8.94				2		S		A
1998-01-07		D	11.46				2		S		A
2003-02-10		D	13.47				2		S	USGS	A
2013-01-09	16:00 MST	m	12.81				2	R	S	USGS	R
2018-02-01	13:30 MST	m	6.24				2		S	USGS	S

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Status	R	Site had been pumped recently.
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	A	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	R	Reported by person other than the owner, driller, or another government agency.
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.



New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

(R=POD has been replaced, O=orphaned, C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 01013	C	ED		4	25	25S	26E			571505	3551456*	245		
C 01089	C	ED	3	4	1	03	25S	26E		567505	3558398*	96	45	51
C 01368	C	ED		1	1	22	25S	26E		567261	3554059*	143	118	25
C 02220	CUB	ED	3	1	2	26	25S	26E		569598	3552352*	35		
C 02221	CUB	ED	4	3	2	25	25S	26E		571412	3551961*	35		
C 02675	C	ED	1	4	1	09	25S	26E		565907	3556978*	180	45	135
C 03258	C	ED	1	1	4	07	25S	26E		563073	3556546*	360		
C 03285	C	ED	4	4	2	07	25S	26E		563713	3556658	84	60	24
C 03569 POD1	CUB	ED	2	1	1	14	25S	26E		568862	3555746	30	0	30
C 03654 POD1	CUB	ED	2	3	1	24	25S	26E		570654	3553773			
C 03654 POD2	CUB	ED	2	3	1	24	25S	26E		554766	3562304			
C 03655 POD1	CUB	ED			4	22	25S	26E		550692	3561324			
C 03655 POD2	CUB	ED			4	22	25S	26E		550732	3561337			
C 03655 POD3	CUB	ED	1	4	4	22	25S	26E		568458	3553019			
C 03655 POD4	CUB	ED			4	22	25S	26E		550684	3561362			
C 04036 POD1	C	ED	1	4	3	06	25S	26E		562745	3557733	160	125	35
C 04049 POD1	CUB	ED	3	2	3	06	25S	26E		562592	3557864	165	120	45
C 04050 POD1	CUB	ED	1	4	3	06	25S	26E		562695	3557776	165	125	40
C 04329 POD1	C	ED	2	2	2	27	25S	26E		568577	3552567	57	14	43

*UTM location was derived from PLSS - see Help

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

Average Depth to Water: **72 feet**

Minimum Depth: **0 feet**

Maximum Depth: **125 feet**

Record Count: 19

Basin/County Search:

County: Eddy

PLSS Search:

Township: 25S **Range:** 26E

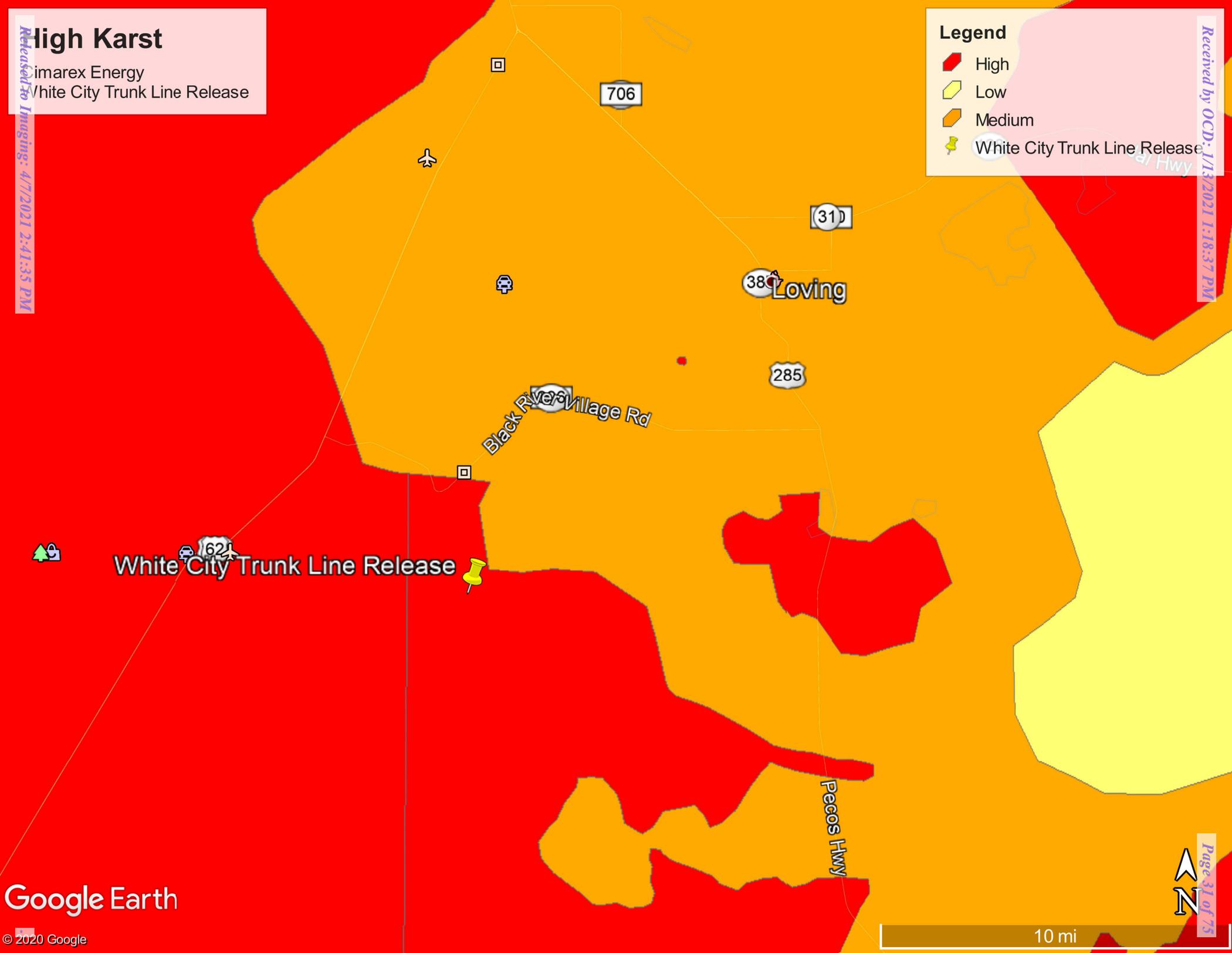
High Karst
Cimarex Energy
White City Trunk Line Release

Released to Imaging: 4/7/2021 2:41:35 PM

Legend

-  High
-  Low
-  Medium
-  White City Trunk Line Release

Received by OCD: 1/13/2021 1:18:37 PM



White City Trunk Line Release



**Water Well Data
Average Depth to Groundwater (ft)
White City SWD Line
Eddy County, New Mexico**

24 South 25 East

6	5 14	4 440	3	2	1
7	8	9 44	10	11	12
18	17	16	15	14	13 7
19	20	21	22	23	24
30	29	28	27	26	25 540
31	32	33	34	35	36
			150	500	

24 South 26 East

6	63	5	4	3	2	1
7	250	8 450	9	10	11	12
18	17	16	15	14 30	13	
19	20	21	22	23 38	24 28	
30	29	46	28	27 30	26	25
31	32 111	33	34	35	36	
		109				

24 South 27 East

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

25 South 25 East

6	5 30	4 46	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
					20
					43
					39
					70

25 South 26 East

6	5	4	3	2	1	
7	8	9	45	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	
						45
						118

25 South 27 East

6	5	4	3	2 33	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
					92
					19

26 South 25 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
					150
					10
					29
					6

26 South 26 East

6	5	4	3	2	1	
7	8	22	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	
						31

26 South 27 East

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

- 88** New Mexico State Engineers Well Reports
- 105** USGS Well Reports
- 90** Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34** NMOCD - Groundwater Data
- 123** Tetra Tech installed temporary wells and field water level
- 143** NMOCD Groundwater map well location

Appendix C

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



Analytical Report

Prepared for:

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Location: Eddy County, NM
Lab Order Number: 0L03002



NELAP/TCEQ # T104704516-17-8

Report Date: 12/17/20

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bottomhole-1 @ 7'	0L03002-01	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-2 @ 7'	0L03002-02	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-3 @ 7'	0L03002-03	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-4 @ 7'	0L03002-04	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-5 @ 7'	0L03002-05	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-6 @ 7'	0L03002-06	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-7 @ 7'	0L03002-07	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-8 @ 7'	0L03002-08	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-9 @ 1'	0L03002-09	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-10 @ 1'	0L03002-10	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-11 @ 1'	0L03002-11	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-12 @ 1'	0L03002-12	Soil	12/02/20 00:00	12-03-2020 09:03
Bottomhole-13 @ 1'	0L03002-13	Soil	12/02/20 00:00	12-03-2020 09:03
SW-1	0L03002-14	Soil	12/02/20 00:00	12-03-2020 09:03
SW-2	0L03002-15	Soil	12/02/20 00:00	12-03-2020 09:03
SW-3	0L03002-16	Soil	12/02/20 00:00	12-03-2020 09:03
SW-4	0L03002-17	Soil	12/02/20 00:00	12-03-2020 09:03
SW-5	0L03002-18	Soil	12/02/20 00:00	12-03-2020 09:03
SW-6	0L03002-19	Soil	12/02/20 00:00	12-03-2020 09:03
SW-7	0L03002-20	Soil	12/02/20 00:00	12-03-2020 09:03
SW-8	0L03002-21	Soil	12/02/20 00:00	12-03-2020 09:03
SW-9	0L03002-22	Soil	12/02/20 00:00	12-03-2020 09:03
SW-10	0L03002-23	Soil	12/02/20 00:00	12-03-2020 09:03
SW-11	0L03002-24	Soil	12/02/20 00:00	12-03-2020 09:03
SW-12	0L03002-25	Soil	12/02/20 00:00	12-03-2020 09:03

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-1 @ 7'

0L03002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

BTEX by 8021B

Benzene	ND	0.00105	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Toluene	ND	0.00105	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Ethylbenzene	ND	0.00105	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Xylene (p/m)	ND	0.00211	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Xylene (o)	ND	0.00105	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.0 %	80-120		P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-120		P0L0708	12/07/20	12/07/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	302	10.5	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	5.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.3	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C12-C28	ND	26.3	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C28-C35	ND	26.3	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		92.4 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		97.2 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.3	mg/kg dry	1	[CALC]	12/03/20	12/03/20	calc	

Permian Basin Environmental Lab, L.P.

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Permian Basin Environmental Lab.

1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-2 @ 7'
0L03002-02 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-120		P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.2 %	80-120		P0L0708	12/07/20	12/07/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	196	10.8	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		91.3 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		94.4 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	12/03/20	12/03/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-3 @ 7'
0L03002-03 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	80-120		P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-120		P0L0708	12/07/20	12/07/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	299	10.9	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.8 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		95.0 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	12/03/20	12/03/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-4 @ 7'
0L03002-04 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		106 %	80-120		P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	80-120		P0L0708	12/07/20	12/07/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	463	11.0	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.6 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		97.5 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	12/03/20	12/03/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-5 @ 7'
0L03002-05 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	80-120		P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.4 %	80-120		P0L0708	12/07/20	12/07/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	277	11.1	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		101 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	12/03/20	12/03/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-6 @ 7'
0L03002-06 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00108	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Toluene	ND	0.00108	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00108	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00215	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00108	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.5 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.3 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	341	10.8	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	7.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	26.9	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C12-C28	ND	26.9	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C28-C35	ND	26.9	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.3 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	26.9	mg/kg dry	1	[CALC]	12/03/20	12/03/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-7 @ 7'
0L03002-07 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.5 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.3 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	366	11.0	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.2 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		98.6 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	12/03/20	12/03/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-8 @ 7'
0L03002-08 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00111	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Toluene	ND	0.00111	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00111	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00222	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00111	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		101 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.9 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	365	11.1	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	10.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.8	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C12-C28	ND	27.8	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C28-C35	ND	27.8	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		100 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.8	mg/kg dry	1	[CALC]	12/03/20	12/03/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
 Project Number: 212C-MD-02370.100
 Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-9 @ 1'
0L03002-09 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Toluene	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00250	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.3 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.1 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	363	12.5	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	20.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	31.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C12-C28	ND	31.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		99.1 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-130		P0L0302	12/03/20	12/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.2	mg/kg dry	1	[CALC]	12/03/20	12/03/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-10 @ 1'
0L03002-10 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Toluene	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00250	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.1 %		80-120	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.1 %		80-120	P0L0708	12/07/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	399	12.5	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	20.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	31.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C12-C28	ND	31.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.4 %		70-130	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		95.5 %		70-130	P0L0302	12/03/20	12/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.2	mg/kg dry	1	[CALC]	12/03/20	12/03/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-11 @ 1'
0L03002-11 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Toluene	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00250	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00125	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.1 %		80-120	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.8 %		80-120	P0L0708	12/07/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	500	12.5	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	20.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	31.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C12-C28	ND	31.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
>C28-C35	ND	31.2	mg/kg dry	1	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.4 %		70-130	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		96.2 %		70-130	P0L0302	12/03/20	12/03/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.2	mg/kg dry	1	[CALC]	12/03/20	12/03/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-12 @ 1'
0L03002-12 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00127	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Toluene	ND	0.00127	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00127	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00253	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00127	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.6 %		80-120	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.3 %		80-120	P0L0708	12/07/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	398	12.7	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	21.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	31.6	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	31.6	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	31.6	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.2 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		91.8 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	31.6	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Bottomhole-13 @ 1'
0L03002-13 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		91.9 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.9 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	26.9	5.15	mg/kg dry	5	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		85.1 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		86.6 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-1

0L03002-14 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		97.1 %		80-120	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.8 %		80-120	P0L0708	12/07/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	8.95	1.09	mg/kg dry	1	P0L0705	12/07/20	12/08/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.2 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		88.8 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-2
0L03002-15 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		95.5 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.8 %	80-120		P0L0708	12/07/20	12/11/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	59.6	10.9	mg/kg dry	10	P0L0705	12/07/20	12/07/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		86.9 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		89.3 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-3
0L03002-16 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		92.2 %		80-120	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.1 %		80-120	P0L1003	12/10/20	12/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	2.45	1.10	mg/kg dry	1	P0L0705	12/07/20	12/08/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		89.5 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		91.9 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-4**0L03002-17 (Soil)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Permian Basin Environmental Lab, L.P.**BTEX by 8021B**

Benzene	ND	0.00109	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.8 %		80-120	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.8 %		80-120	P0L1003	12/10/20	12/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.46	1.09	mg/kg dry	1	P0L0705	12/07/20	12/08/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.6 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		96.4 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-5
0L03002-18 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		94.3 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.9 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	7.32	1.10	mg/kg dry	1	P0L0705	12/07/20	12/08/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.4 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		95.9 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-6
0L03002-19 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		96.0 %		80-120	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %		80-120	P0L1003	12/10/20	12/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	9.62	1.10	mg/kg dry	1	P0L0705	12/07/20	12/08/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		90.4 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		91.7 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-7
0L03002-20 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00109	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Toluene	ND	0.00109	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Ethylbenzene	ND	0.00109	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00217	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (o)	ND	0.00109	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		104 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.0 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	5.39	1.09	mg/kg dry	1	P0L0705	12/07/20	12/08/20	EPA 300.0	
% Moisture	8.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	27.2	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		93.8 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		95.0 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.2	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-8
0L03002-21 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Toluene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Ethylbenzene	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00220	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (o)	ND	0.00110	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	219	11.0	mg/kg dry	10	P0L0706	12/07/20	12/10/20	EPA 300.0	
% Moisture	9.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	27.5	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.1 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		97.8 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	27.5	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-9
0L03002-22 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		103 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	126	5.15	mg/kg dry	5	P0L0706	12/07/20	12/09/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.7 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		94.1 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-10
0L03002-23 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.0 %		80-120	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %		80-120	P0L1003	12/10/20	12/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	49.1	5.15	mg/kg dry	5	P0L0706	12/07/20	12/09/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		95.4 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		94.8 %		70-130	P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-11
0L03002-24 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		100 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.0 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	38.6	1.03	mg/kg dry	1	P0L0706	12/07/20	12/10/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		96.4 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		95.7 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

SW-12
0L03002-25 (Soil)

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

BTEX by 8021B

Benzene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Toluene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Ethylbenzene	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (p/m)	ND	0.00206	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Xylene (o)	ND	0.00103	mg/kg dry	1	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		101 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	80-120		P0L1003	12/10/20	12/10/20	EPA 8021B	

General Chemistry Parameters by EPA / Standard Methods

Chloride	58.1	5.15	mg/kg dry	5	P0L0706	12/07/20	12/09/20	EPA 300.0	
% Moisture	3.0	0.1	%	1	P0L0404	12/04/20	12/04/20	ASTM D2216	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M

C6-C12	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C12-C28	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
>C28-C35	ND	25.8	mg/kg dry	1	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: 1-Chlorooctane		94.1 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		93.7 %	70-130		P0L0307	12/03/20	12/04/20	TPH 8015M	
Total Petroleum Hydrocarbon C6-C35	ND	25.8	mg/kg dry	1	[CALC]	12/03/20	12/04/20	calc	

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

BTEX by 8021B - 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 P0L0708 - General Preparation (GC)**Blank (P0L0708-BLK1)**

Prepared & Analyzed: 12/07/20

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: 1,4-Difluorobenzene	0.118		"	0.120		98.2	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.7	80-120			

LCS (P0L0708-BS1)

Prepared & Analyzed: 12/07/20

Benzene	0.104	0.00100	mg/kg wet	0.100		104	70-130			
Toluene	0.0963	0.00100	"	0.100		96.3	70-130			
Ethylbenzene	0.102	0.00100	"	0.100		102	70-130			
Xylene (p/m)	0.192	0.00200	"	0.200		96.1	70-130			
Xylene (o)	0.0932	0.00100	"	0.100		93.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.3	80-120			
Surrogate: 1,4-Difluorobenzene	0.122		"	0.120		102	80-120			

LCS Dup (P0L0708-BSD1)

Prepared & Analyzed: 12/07/20

Benzene	0.113	0.00100	mg/kg wet	0.100		113	70-130	7.72	20	
Toluene	0.108	0.00100	"	0.100		108	70-130	11.8	20	
Ethylbenzene	0.117	0.00100	"	0.100		117	70-130	13.9	20	
Xylene (p/m)	0.220	0.00200	"	0.200		110	70-130	13.6	20	
Xylene (o)	0.106	0.00100	"	0.100		106	70-130	13.1	20	
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	80-120			

Calibration Check (P0L0708-CCV1)

Prepared & Analyzed: 12/07/20

Benzene	0.115	0.00100	mg/kg wet	0.100		115	80-120			
Toluene	0.109	0.00100	"	0.100		109	80-120			
Ethylbenzene	0.115	0.00100	"	0.100		115	80-120			
Xylene (p/m)	0.227	0.00200	"	0.200		113	80-120			
Xylene (o)	0.112	0.00100	"	0.100		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.122		"	0.120		102	75-125			
Surrogate: 1,4-Difluorobenzene	0.123		"	0.120		103	75-125			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

BTEX by 8021B - 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 P0L0708 - General Preparation (GC)

Calibration Check (P0L0708-CCV2)

Prepared & Analyzed: 12/07/20

Benzene	0.107	0.00100	mg/kg wet	0.100		107	80-120			
Toluene	0.0952	0.00100	"	0.100		95.2	80-120			
Ethylbenzene	0.0997	0.00100	"	0.100		99.7	80-120			
Xylene (p/m)	0.177	0.00200	"	0.200		88.6	80-120			
Xylene (o)	0.0896	0.00100	"	0.100		89.6	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		94.3	75-125			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		107	75-125			

Batch P0L1003 - General Preparation (GC)

Blank (P0L1003-BLK1)

Prepared & Analyzed: 12/10/20

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: 1,4-Difluorobenzene	0.111		"	0.120		92.8	80-120			
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120		95.2	80-120			

LCS (P0L1003-BS1)

Prepared & Analyzed: 12/10/20

Benzene	0.112	0.00100	mg/kg wet	0.100		112	70-130			
Toluene	0.104	0.00100	"	0.100		104	70-130			
Ethylbenzene	0.114	0.00100	"	0.100		114	70-130			
Xylene (p/m)	0.206	0.00200	"	0.200		103	70-130			
Xylene (o)	0.0988	0.00100	"	0.100		98.8	70-130			
Surrogate: 1,4-Difluorobenzene	0.124		"	0.120		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.116		"	0.120		96.9	80-120			

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

BTEX by 8021B - 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 P0L1003 - General Preparation (GC)**LCS Dup (P0L1003-BSD1)**

Prepared & Analyzed: 12/10/20

Benzene	0.101	0.00100	mg/kg wet	0.100		101	70-130	10.2	20	
Toluene	0.0922	0.00100	"	0.100		92.2	70-130	12.2	20	
Ethylbenzene	0.113	0.00100	"	0.100		113	70-130	0.563	20	
Xylene (p/m)	0.184	0.00200	"	0.200		91.8	70-130	11.6	20	
Xylene (o)	0.0908	0.00100	"	0.100		90.8	70-130	8.50	20	
Surrogate: 4-Bromofluorobenzene	0.132		"	0.120		110	80-120			
Surrogate: 1,4-Difluorobenzene	0.118		"	0.120		98.3	80-120			

Calibration Check (P0L1003-CCV1)

Prepared & Analyzed: 12/10/20

Benzene	0.108	0.00100	mg/kg wet	0.100		108	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.106	0.00100	"	0.100		106	80-120			
Xylene (p/m)	0.196	0.00200	"	0.200		98.2	80-120			
Xylene (o)	0.0963	0.00100	"	0.100		96.3	80-120			
Surrogate: 4-Bromofluorobenzene	0.113		"	0.120		93.8	75-125			
Surrogate: 1,4-Difluorobenzene	0.121		"	0.120		101	75-125			

Calibration Check (P0L1003-CCV2)

Prepared & Analyzed: 12/10/20

Benzene	0.111	0.00100	mg/kg wet	0.100		111	80-120			
Toluene	0.101	0.00100	"	0.100		101	80-120			
Ethylbenzene	0.104	0.00100	"	0.100		104	80-120			
Xylene (p/m)	0.189	0.00200	"	0.200		94.4	80-120			
Xylene (o)	0.0972	0.00100	"	0.100		97.2	80-120			
Surrogate: 1,4-Difluorobenzene	0.128		"	0.120		107	75-125			
Surrogate: 4-Bromofluorobenzene	0.117		"	0.120		97.1	75-125			

Calibration Check (P0L1003-CCV3)

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.111	0.00100	mg/kg wet	0.100		111	80-120			
Toluene	0.100	0.00100	"	0.100		100	80-120			
Ethylbenzene	0.110	0.00100	"	0.100		110	80-120			
Xylene (p/m)	0.199	0.00200	"	0.200		99.4	80-120			
Xylene (o)	0.104	0.00100	"	0.100		104	80-120			
Surrogate: 4-Bromofluorobenzene	0.124		"	0.120		103	75-125			
Surrogate: 1,4-Difluorobenzene	0.120		"	0.120		99.8	75-125			

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Tetra Tech
901 W Wall Street, Ste 100
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Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

BTEX by 8021B - 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 P0L1003 - General Preparation (GC)

Matrix Spike (P0L1003-MS1)

Source: 0L03002-16

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.0778	0.00110	mg/kg dry	0.110	ND	70.8	80-120			QM-05
Toluene	0.0643	0.00110	"	0.110	ND	58.5	80-120			QM-05
Ethylbenzene	0.0766	0.00110	"	0.110	ND	69.8	80-120			QM-05
Xylene (p/m)	0.117	0.00220	"	0.220	ND	53.1	80-120			QM-05
Xylene (o)	0.0587	0.00110	"	0.110	ND	53.4	80-120			QM-05
Surrogate: 4-Bromofluorobenzene	0.145		"	0.132		110	80-120			
Surrogate: 1,4-Difluorobenzene	0.143		"	0.132		109	80-120			

Matrix Spike Dup (P0L1003-MSD1)

Source: 0L03002-16

Prepared: 12/10/20 Analyzed: 12/11/20

Benzene	0.0812	0.00110	mg/kg dry	0.110	ND	73.9	80-120	4.23	20	QM-05
Toluene	0.0650	0.00110	"	0.110	ND	59.1	80-120	1.12	20	QM-05
Ethylbenzene	0.0797	0.00110	"	0.110	ND	72.5	80-120	3.91	20	QM-05
Xylene (p/m)	0.118	0.00220	"	0.220	ND	53.9	80-120	1.43	20	QM-05
Xylene (o)	0.0617	0.00110	"	0.110	ND	56.2	80-120	5.08	20	QM-05
Surrogate: 4-Bromofluorobenzene	0.143		"	0.132		109	80-120			
Surrogate: 1,4-Difluorobenzene	0.138		"	0.132		105	80-120			

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901 W Wall Street, Ste 100
Midland TX, 79705

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

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
Batch P0L0404 - *** DEFAULT PREP ***										
Blank (P0L0404-BLK1) Prepared & Analyzed: 12/04/20										
% Moisture	ND	0.1	%							
Blank (P0L0404-BLK2) Prepared & Analyzed: 12/04/20										
% Moisture	ND	0.1	%							
Duplicate (P0L0404-DUP1) Source: 0L03002-10 Prepared & Analyzed: 12/04/20										
% Moisture	20.0	0.1	%		20.0			0.00	20	
Duplicate (P0L0404-DUP2) Source: 0L03002-20 Prepared & Analyzed: 12/04/20										
% Moisture	9.0	0.1	%		8.0			11.8	20	
Batch P0L0705 - *** DEFAULT PREP ***										
Blank (P0L0705-BLK1) Prepared: 12/07/20 Analyzed: 12/17/20										
Chloride	ND	1.00	mg/kg wet							
LCS (P0L0705-BS1) Prepared & Analyzed: 12/07/20										
Chloride	433	1.00	mg/kg wet	400		108	80-120			
LCS Dup (P0L0705-BSD1) Prepared & Analyzed: 12/07/20										
Chloride	435	1.00	mg/kg wet	400		109	80-120	0.507	20	
Calibration Check (P0L0705-CCV1) Prepared & Analyzed: 12/07/20										
Chloride	20.6		mg/kg	20.0		103	0-200			
Calibration Check (P0L0705-CCV2) Prepared & Analyzed: 12/07/20										
Chloride	21.3		mg/kg	20.0		107	0-200			

Permian Basin Environmental Lab, L.P.

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

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
Batch P0L0705 - *** DEFAULT PREP ***										
Calibration Check (P0L0705-CCV3)				Prepared & Analyzed: 12/07/20						
Chloride	22.2		mg/kg	20.0		111	0-200			
Matrix Spike (P0L0705-MS1)				Source: 0L03002-01 Prepared & Analyzed: 12/07/20						
Chloride	1420	10.5	mg/kg dry	1050	302	106	80-120			
Matrix Spike (P0L0705-MS2)				Source: 0L03002-11 Prepared & Analyzed: 12/07/20						
Chloride	1790	12.5	mg/kg dry	1250	500	103	80-120			
Matrix Spike Dup (P0L0705-MSD1)				Source: 0L03002-01 Prepared & Analyzed: 12/07/20						
Chloride	1470	10.5	mg/kg dry	1050	302	111	80-120	3.48	20	
Matrix Spike Dup (P0L0705-MSD2)				Source: 0L03002-11 Prepared & Analyzed: 12/07/20						
Chloride	1810	12.5	mg/kg dry	1250	500	105	80-120	1.16	20	
Batch P0L0706 - *** DEFAULT PREP ***										
Blank (P0L0706-BLK1)				Prepared: 12/07/20 Analyzed: 12/09/20						
Chloride	ND	1.00	mg/kg wet							
LCS (P0L0706-BS1)				Prepared: 12/07/20 Analyzed: 12/09/20						
Chloride	452	1.00	mg/kg wet	400		113	80-120			
LCS Dup (P0L0706-BSD1)				Prepared: 12/07/20 Analyzed: 12/09/20						
Chloride	447	1.00	mg/kg wet	400		112	80-120	1.07	20	
Calibration Check (P0L0706-CCV1)				Prepared: 12/07/20 Analyzed: 12/09/20						
Chloride	21.6		mg/kg	20.0		108	0-200			

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

Project: White City Trunk Line
 Project Number: 212C-MD-02370.100
 Project Manager: Brittany Long

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
Batch P0L0706 - *** DEFAULT PREP ***										
Calibration Check (P0L0706-CCV2)				Prepared: 12/07/20 Analyzed: 12/09/20						
Chloride	22.2		mg/kg	20.0		111	0-200			
Calibration Check (P0L0706-CCV3)				Prepared: 12/07/20 Analyzed: 12/09/20						
Chloride	22.4		mg/kg	20.0		112	0-200			
Matrix Spike (P0L0706-MS1)				Source: 0L03002-21		Prepared: 12/07/20 Analyzed: 12/10/20				
Chloride	1230	11.0	mg/kg dry	1100	219	91.7	80-120			
Matrix Spike (P0L0706-MS2)				Source: 0L07007-04		Prepared: 12/07/20 Analyzed: 12/09/20				
Chloride	675	1.05	mg/kg dry	526	202	90.0	80-120			
Matrix Spike Dup (P0L0706-MSD1)				Source: 0L03002-21		Prepared: 12/07/20 Analyzed: 12/10/20				
Chloride	1310	11.0	mg/kg dry	1100	219	99.5	80-120	6.68	20	
Matrix Spike Dup (P0L0706-MSD2)				Source: 0L07007-04		Prepared: 12/07/20 Analyzed: 12/09/20				
Chloride	688	1.05	mg/kg dry	526	202	92.4	80-120	1.89	20	

Permian Basin Environmental Lab, L.P.

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

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 P0L0302 - TX 1005**Blank (P0L0302-BLK1)**

Prepared & Analyzed: 12/03/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	97.8		"	100		97.8	70-130			
Surrogate: o-Terphenyl	48.5		"	50.0		97.0	70-130			

LCS (P0L0302-BS1)

Prepared & Analyzed: 12/03/20

C6-C12	1040	25.0	mg/kg wet	1000		104	75-125			
>C12-C28	1140	25.0	"	1000		114	75-125			
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	49.1		"	50.0		98.2	70-130			

LCS Dup (P0L0302-BSD1)

Prepared & Analyzed: 12/03/20

C6-C12	1050	25.0	mg/kg wet	1000		105	75-125	0.0383	20	
>C12-C28	1130	25.0	"	1000		113	75-125	0.867	20	
Surrogate: 1-Chlorooctane	124		"	100		124	70-130			
Surrogate: o-Terphenyl	48.5		"	50.0		97.0	70-130			

Calibration Check (P0L0302-CCV1)

Prepared & Analyzed: 12/03/20

C6-C12	523	25.0	mg/kg wet	500		105	85-115			
>C12-C28	570	25.0	"	500		114	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.8	70-130			

Calibration Check (P0L0302-CCV2)

Prepared & Analyzed: 12/03/20

C6-C12	530	25.0	mg/kg wet	500		106	85-115			
>C12-C28	561	25.0	"	500		112	85-115			
Surrogate: 1-Chlorooctane	108		"	100		108	70-130			
Surrogate: o-Terphenyl	47.4		"	50.0		94.8	70-130			

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

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

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 P0L0302 - TX 1005**Matrix Spike (P0L0302-MS1)**

Source: 0L02021-13

Prepared & Analyzed: 12/03/20

C6-C12	984	27.2	mg/kg dry	1090	ND	90.5	75-125			
>C12-C28	1110	27.2	"	1090	36.0	99.2	75-125			
Surrogate: 1-Chlorooctane	111		"	109		102	70-130			
Surrogate: o-Terphenyl	48.6		"	54.3		89.4	70-130			

Matrix Spike Dup (P0L0302-MSD1)

Source: 0L02021-13

Prepared & Analyzed: 12/03/20

C6-C12	962	27.2	mg/kg dry	1090	ND	88.5	75-125	2.22	20	
>C12-C28	1060	27.2	"	1090	36.0	94.3	75-125	5.04	20	
Surrogate: 1-Chlorooctane	112		"	109		103	70-130			
Surrogate: o-Terphenyl	43.0		"	54.3		79.1	70-130			

Batch P0L0307 - TX 1005**Blank (P0L0307-BLK1)**

Prepared: 12/03/20 Analyzed: 12/04/20

C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	95.2		"	100		95.2	70-130			
Surrogate: o-Terphenyl	47.1		"	50.0		94.2	70-130			

LCS (P0L0307-BS1)

Prepared: 12/03/20 Analyzed: 12/04/20

C6-C12	1050	25.0	mg/kg wet	1000		105	75-125			
>C12-C28	1130	25.0	"	1000		113	75-125			
Surrogate: 1-Chlorooctane	126		"	100		126	70-130			
Surrogate: o-Terphenyl	53.9		"	50.0		108	70-130			

LCS Dup (P0L0307-BSD1)

Prepared: 12/03/20 Analyzed: 12/04/20

C6-C12	1030	25.0	mg/kg wet	1000		103	75-125	1.57	20	
>C12-C28	1110	25.0	"	1000		111	75-125	1.59	20	
Surrogate: 1-Chlorooctane	125		"	100		125	70-130			
Surrogate: o-Terphenyl	52.1		"	50.0		104	70-130			

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Midland TX, 79705

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

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
Batch P0L0307 - TX 1005										
Calibration Check (P0L0307-CCV1)										
				Prepared: 12/03/20 Analyzed: 12/04/20						
C6-C12	522	25.0	mg/kg wet	500		104	85-115			
>C12-C28	565	25.0	"	500		113	85-115			
Surrogate: 1-Chlorooctane	109		"	100		109	70-130			
Surrogate: o-Terphenyl	48.8		"	50.0		97.7	70-130			
Calibration Check (P0L0307-CCV2)										
				Prepared: 12/03/20 Analyzed: 12/04/20						
C6-C12	514	25.0	mg/kg wet	500		103	85-115			
>C12-C28	539	25.0	"	500		108	85-115			
Surrogate: 1-Chlorooctane	105		"	100		105	70-130			
Surrogate: o-Terphenyl	45.4		"	50.0		90.9	70-130			
Matrix Spike (P0L0307-MS1)										
		Source: 0L03002-20		Prepared: 12/03/20 Analyzed: 12/05/20						
C6-C12	1070	27.2	mg/kg dry	1090	ND	98.3	75-125			
>C12-C28	1160	27.2	"	1090	ND	106	75-125			
Surrogate: 1-Chlorooctane	124		"	109		114	70-130			
Surrogate: o-Terphenyl	49.8		"	54.3		91.7	70-130			
Matrix Spike Dup (P0L0307-MSD1)										
		Source: 0L03002-20		Prepared: 12/03/20 Analyzed: 12/05/20						
C6-C12	1080	27.2	mg/kg dry	1090	ND	99.4	75-125	1.14	20	
>C12-C28	1150	27.2	"	1090	ND	105	75-125	0.925	20	
Surrogate: 1-Chlorooctane	128		"	109		118	70-130			
Surrogate: o-Terphenyl	52.4		"	54.3		96.4	70-130			

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Tetra Tech
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Midland TX, 79705

Project: White City Trunk Line
Project Number: 212C-MD-02370.100
Project Manager: Brittany Long

Fax: (432) 686-8085

Notes and Definitions

- 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: Brent Barron Date: 12/17/2020

Brent Barron, Laboratory Director/Technical Director

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

Permian Basin Environmental Lab, L.P.

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1400 Rankin HWY Midland, TX 79701 432-686-7235



Tetra Tech, Inc.

Analysis Request of Chain of Custody Record

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

0103002

Client Name: Cimarex
 Project Name: White City Trunk Line
 Project Location: Eddy County, New Mexico
 Invoice to: Cimarex/Gloria Garza
 Receiving Laboratory: PBE Lab
 Site Manager: Brittany Long
 Project #: 212C-MD-02370.100
 Sampler Signature: Devin Dominguez

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			
	Bottomhole-1 (7')	12/2/2020		X						1	N	BTEX 8021B BTEX 8260B TPH TX1005 (Ext to C35)
	Bottomhole-2 (7')	12/2/2020		X						1	N	TPH 8015M (GRO - DRO - ORO - MRO)
	Bottomhole-3 (7')	12/2/2020		X						1	N	PAH 8270C
	Bottomhole-4 (7')	12/2/2020		X						1	N	Total Metals Ag As Ba Cd Cr Pb Se Hg
	Bottomhole-5 (7')	12/2/2020		X						1	N	TCLP Metals Ag As Ba Cd Cr Pb Se Hg
	Bottomhole-6 (7')	12/2/2020		X						1	N	TCLP Volatiles
	Bottomhole-7 (7')	12/2/2020		X						1	N	TCLP Semi Volatiles
	Bottomhole-8 (7')	12/2/2020		X						1	N	RCI
	Bottomhole-9 (1')	12/2/2020		X						1	N	GC/MS Vol. 8260B / 624
	Bottomhole-10 (1')	12/2/2020		X						1	N	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
												TPH 8015R
												Hold

Inquired by: *[Signature]*
 Date: 12/13
 Time: *[Blank]*

Received by: *[Signature]*
 Date: *[Blank]*
 Time: *[Blank]*

Inquired by: *[Blank]*
 Date: *[Blank]*
 Time: *[Blank]*

Received by: *[Blank]*
 Date: *[Blank]*
 Time: *[Blank]*

LAB USE ONLY
 Sample Temperature
 REMARKS:
 STANDARD
 RUSH: Same Day 24 hr 48 hr 72 hr
 Rush Charges Authorized
 Special Report Limits or TRRP Report

ORIGINAL COPY

Hand Delivered
 FEDEX UPS Tracking #

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

0103002

Client Name: Cimarex
 Project Name: White City Trunk Line
 Project Location: Eddy County, New Mexico
 Invoice to: Cimarex/Gloria Garza
 Receiving Laboratory: PBE Lab
 Comments:

Site Manager: Brittany Long
 Project #: 212C-MD-02370.100
 Sampler Signature: Devin Dominguez

Inquired by: [Signature] Date: 12/13 Time: []
 Received by: [Signature] Date: 12/13 Time: []

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING		MATRIX		PRESERVATIVE METHOD			# CONTAINERS	FILTERED (Y/N)	
		YEAR: 2020	DATE	TIME	WATER	SOIL	HCL	HNO ₃			ICE
	Bottomhole-11 (1')		12/2/2020		X					1	N
	Bottomhole-12 (1')		12/2/2020		X					1	N
	Bottomhole-13 (1')		12/2/2020		X					1	N
	SW-1		12/2/2020		X					1	N
	SW-2		12/2/2020		X					1	N
	SW-3		12/2/2020		X					1	N
	SW-4		12/2/2020		X					1	N
	SW-5		12/2/2020		X					1	N
	SW-6		12/2/2020		X					1	N
	SW-7		12/2/2020		X					1	N

LAB USE ONLY

REMARKS: STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Sample Temperature: 8.1

Handwritten: a-57

Handwritten: 12/13 9:03

Handwritten: 0103002

Handwritten: BTEX 8021B BTEX 8260B

Handwritten: TPH TX1005 (Ext to C35)

Handwritten: TPH 8015M (GRO - DRO - ORO - MRO)

Handwritten: PAH 8270C

Handwritten: Total Metals Ag As Ba Cd Cr Pb Se Hg

Handwritten: TCLP Metals Ag As Ba Cd Cr Pb Se Hg

Handwritten: TCLP Volatiles

Handwritten: TCLP Semi Volatiles

Handwritten: RCI

Handwritten: GC/MS Vol. 8260B / 624

Handwritten: GC/MS Semi. Vol. 8270C/625

Handwritten: PCB's 8082 / 608

Handwritten: NORM

Handwritten: PLM (Asbestos)

Handwritten: Chloride

Handwritten: Chloride Sulfate TDS

Handwritten: General Water Chemistry (see attached list)

Handwritten: Anion/Cation Balance

Handwritten: TPH 8015R

Handwritten: Hold

ORIGINAL COPY

Analysis Request of Chain of Custody Record



Tetra Tech, Inc.

900 West Wall Street, Ste 100
Midland, Texas 79701
Tel (432) 682-4559
Fax (432) 682-3946

003002

Client Name: Cimarex		Site Manager: Brittany Long	
Project Name: White City Trunk Line		Project #: 212C-MD-02370.100	
Project Location: Eddy County, New Mexico		Sampler Signature: Devin Dominguez	
Invoice to: Cimarex/Gloria Garza		Receiving Laboratory: PBE Lab	
Comments:			

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			
	SW-8	12/2/2020		X				1	N	BTEX 8021B BTEX 8260B
	SW-9	12/2/2020		X				1	N	TPH TX1005 (Ext to C35)
	SW-10	12/2/2020		X				1	N	TPH 8015M (GRO - DRO - ORO - MRO)
	SW-11	12/2/2020		X				1	N	PAH 8270C
	SW-12	12/2/2020		X				1	N	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
										TPH 8015R
										Hold

Relinquished by: *[Signature]* Date: 12/3 Time: *[Blank]*

Received by: *[Signature]* Date: 12/3 Time: 9:03

Relinquished by: _____ Date: _____ Time: _____

Received by: _____ Date: _____ Time: _____

LAB USE ONLY

Sample Temperature: 8.1

REMARKS:

STANDARD

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

Original and Inverted FEDEX UPS Tracking #:

ORIGINAL COPY

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

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

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

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

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

CONDITIONS

Action 14619

CONDITIONS OF APPROVAL

Operator: CIMAREX ENERGY CO. Suite 600 Midland, TX79701	600 N. Marienfeld Street	OGRID: 215099	Action Number: 14619	Action Type: C-141
OCD Reviewer ceads		Condition None		