SITE INFORMATION

		SI	TE INFOR	RMATION			
F	Report Type:	Closure Re	eport nRI	M2022645	367 & nF	RM20345	61113
General Site In	formation:						
Site:		White City Tr	unk Line Rele	ease			
Company:		Cimarex Ene	<u> </u>				
	ship and Range	Unit J	Sec. 1	T 25S	R 26E		
Lease Number							
County:		Eddy County					
GPS:			32.158230°	N		-104.2	43715° W
Surface Owner		Federal					
Mineral Owner Directions:	:	Francisco interes	tif	100 0 00 4 / 1 4	A travel EACT	LIM/V 400	for approximately 3.0
		miles, turn SOU north side of lea		road for 1.10 mi,	, turn WEST o	nto lease roa	d for 0.60 mi to location on
Release Data:							
Date Released:		8/3/2020 & 11					
Type Release:			Produced Water				
Source of Conta			Line Breaks				
Fluid Released:		179 bbls					
Fluids Recovere		100 bbls	100 bbls				
Official Comm							
Name:	Gloria Garza				Brittany Lo	ong	
Company:	Cimarex Energy				Tetra Tech	า	
Address: 600 N. Marienfield S		St.		901 W. Wall St.			
	Ste 600				Ste 100		
City:	Midland Texas, 79	701			Midland, T	exas, 79701	
Phone number:	(432) 234-3204				(432) 741-	5813	
Fax:					, ,		

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

Brittany.Long@TetraTech.com

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		

GGarza@Cimarex.com

Email:



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



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, hydrovacced, 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

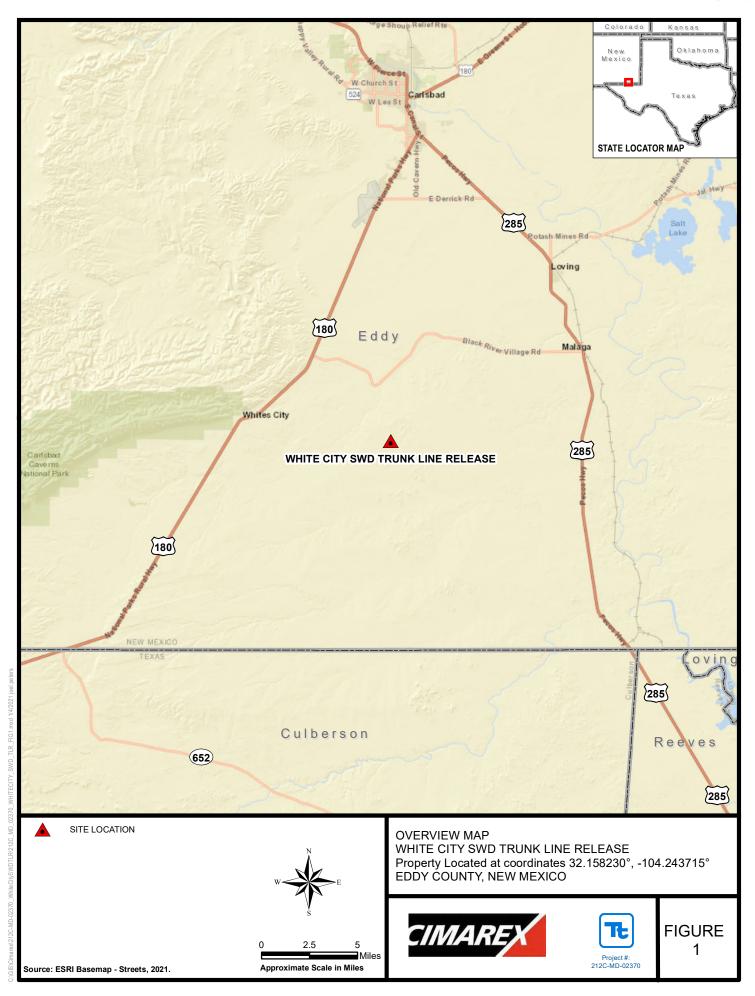
Based on the laboratory results and remediation activities performed, Cimarex requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment or remediation activities for this site, please call at (432) 741-5813.

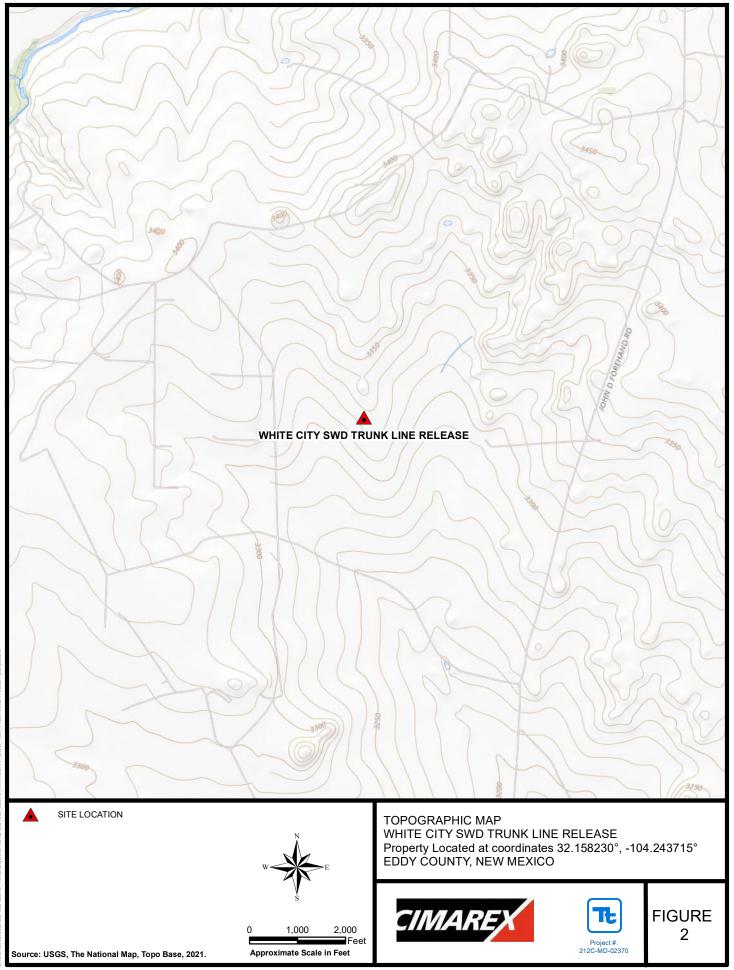
Respectfully submitted, TETRA TECH

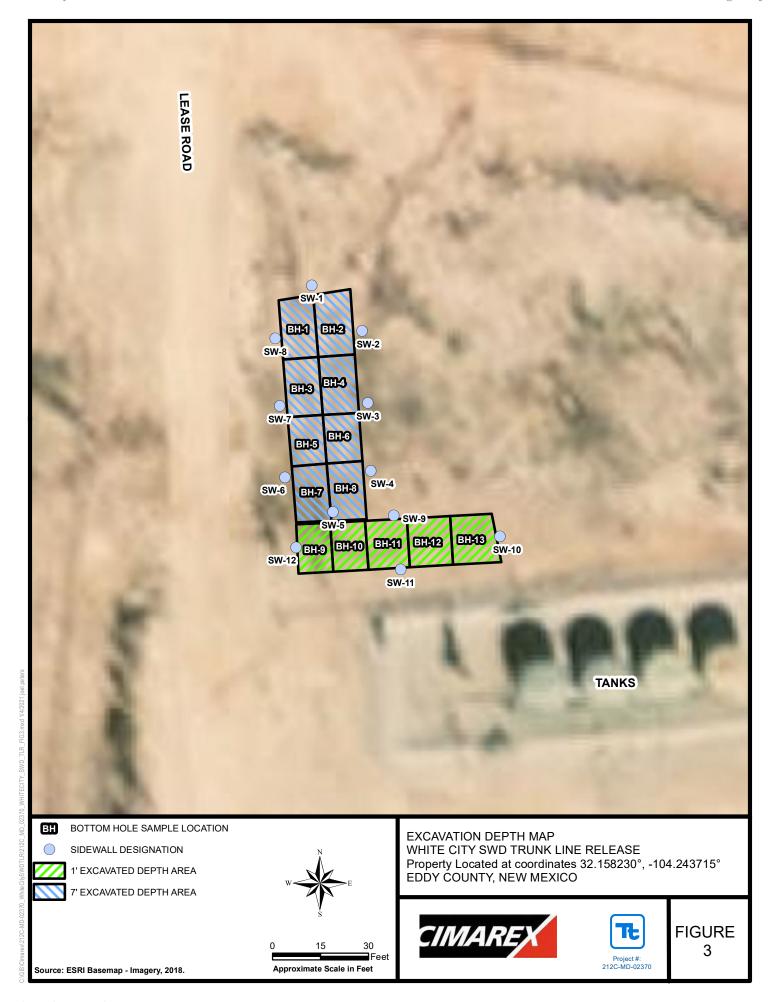
Brittany Long, Project Manager

cc: Gloria Garza-Cimarex Laci Luig-Cimarex Stewart Wittenbach-Cimarex Clair Gonzales, Senior Project Manager

Figures







Tables

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

		Excavtion	Soil	Status		TPH (m	g/kg)		_ , , ,		Foluene (mg/kg) Ethlybenzene (mg/kg)			Chloride
Sample ID	Sample Date	Depth (ft)	In-Situ	Removed	GRO	DRO	MRO	Total	Benzene (mg/kg)	Toluene (mg/kg)		Xylene (mg/kg)	Total BTEX (mg/kg)	(mg/kg)
BH-1	12/2/2020	7.0'	Χ	-	<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'	Х	-	<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'	Х	-	<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'	Х	-	<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'	Х	-	<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'	Х	-	<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'	Х	-	<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'	Х	-	<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'	Х	-	<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'	Х	-	<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'	Х	-	<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'	Х	-	<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'	Х	-	<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	-	Х	-	<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	-	Х	-	<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	-	Χ	-	<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	-	Х	-	<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	-	Х	-	<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	-	Х	-	<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	-	Х	-	<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	-	Х	-	<27.5	<27.5	<27.5	<27.5	<0.00110	<0.00110	<0.00110	<0.00110	<0.00110	219
SW-9	12/2/2020	-	Х	-	<25.8	<25.8	<25.8	<25.8	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	126
SW-10	12/2/2020	-	Х	-	<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	-	Х	-	<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	-	Х	-	<25.8	<25.8	<25.8	<25.8	<0.00103	<0.00103	<0.00103	<0.00103	<0.00103	58.1

(-) Not Analyzed Exceedance

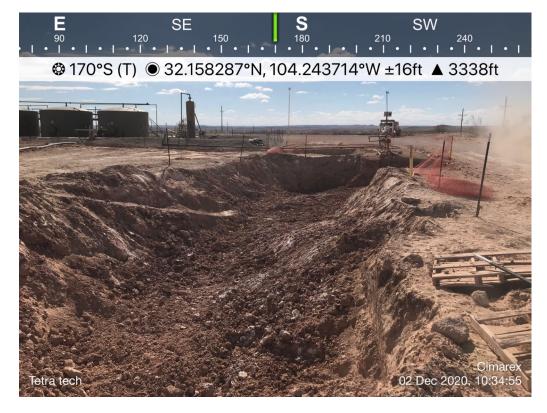
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Photos

TETRA TEC

Cimarex Energy White City Trunk Line Eddy County, New Mexico





View of Remediation Activities - View South



View of Remediation Activities – View Northwest

TETRA TECH

Cimarex Energy White City Trunk Line Eddy County, New Mexico





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

B 111	D				OCDID	215000		
•	Responsible Party: Cimarex Energy Co.				OGRID: 215099			
Contact Nam	ne: Laci Luig	9			Contact Telephone: (432) 571-7800			
Contact emai	il: lluig@cir	narex.com			Incident #	t # (assigned by OCD)		
Contact mail Midland, TX		600 N Marienfel	d Street, Ste. 600)				
			Locatio	n of R	Release S	Source		
Latitude 32.1	58230				Longitude	le -104.243715		
Zantado 32.1			(NAD 83 in a	decimal de	grees to 5 deci	ecimal places)		
Site Name: V	White City S	WD Line			Site Type	pe: ROW		
Date Release	Discovered	: 8/3/2020			API# (if ap	applicable)		
Unit Letter	Section	Township	Range		Cou	ounty		
J	1	25S	26E	Edd				
Surface Owner	r: State	⊠ Federal □ T	ribal ☐ Private Nature ar	•		f Release		
Crude Oil		Volume Released		ch calculat	tions or specifi	Volume Recovered (bbls)		
☐ Produced		Volume Releas				Volume Recovered (bbls) 0		
Z Troduced	· · · · · · · · · · · · · · · · · · ·		ation of dissolved	Lehlorida	a in the	Yes No		
		produced water		Cinoria	c in the			
Condensa	ite	Volume Releas	ed (bbls)			Volume Recovered (bbls)		
Natural G	as	Volume Releas	ed (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide unit			ide units)	Volume/Weight Recovered (provide units)			
repaired the l barrels of pro	k in a main veak until the oduced water	water transfer line e new Stainless St	eel Warren valve d lease road but v	e, stainle vere not	ss check val able to reco	lve and Victaulic clamp due to corrosion. We temporarivalve, and poly flanges can be installed. We released 24 cover any fluids. All carbon steel valves and Victaulic thway forward.	•	

Received by OCD: 2/23/2021 10:53:44 AM State of New Mexico
Page 2 Oil Conservation Division

Page 16 26 75

Incident ID	NRM2022645367
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the re	esponsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?		
Yes No		
If YES, was immediate no	Lagrands of the OCD? By whom? T	o whom? When and by what means (phone, email, etc)?
By: Gloria Garza		
To: Mike Bratcher, Rober By: Email	rt Hamlet, Victoria Venegas and BLM	NM CFO Spill
	Initia	l Response
The responsible	party must undertake the following actions imme	diately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health	and the environment.
Released materials ha	ave been contained via the use of berms	s or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been remove	d and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, exp	lain why:
D. 10 15 20 9 D. (4) NIM	IAC d	
has begun, please attach	a narrative of actions to date. If reme	nce remediation immediately after discovery of a release. If remediation dial efforts have been successfully completed or if the release occurred C), please attach all information needed for closure evaluation.
		the best of my knowledge and understand that pursuant to OCD rules and
		e notifications and perform corrective actions for releases which may endanger the OCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose	a threat to groundwater, surface water, human health or the environment. In or of responsibility for compliance with any other federal, state, or local laws
and/or regulations.	Ta C-141 report does not reneve the operat	of of responsionity for comphance with any other rederar, state, or local laws
Printed Name: Laci Luig		Title: Engineer Tech
Signature: XGC	· 46	Date: 8///2020
email: lluig@cimarex.cor	n	Telephone: (432) 571-7810
OCD Only		
_	M	0.44.0.000
Received by: Ramor	na Marcus	Date: <u>8/13/2020</u>
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Received by OCD: 2/23/2021 10:53:44 AM
Form C-141 State of New Mexico
Page 3 Oil Conservation Division

		ruge 17 0
	Incident ID	
n	District RP	
	Facility ID	
	Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody	ls.

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

Received by OCD: 2/23/2021 10:53:44 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

Page	18	of	<i>75</i>

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:			
Printed Name: Signature: glvia garza	Date:		
email:	Telephone:		
OCD Only			
Received by: Cristina Eads	Date:		

Received by OCD: 2/23/2021 10:53:44 AM Form C-141 State of New Mexico
Page 6 Oil Conservation Division

	Page 19 of 75
Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC		
Photographs of the remediated site prior to backfill or photos 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	C District office must be notified 2 days prior to final sampling)		
☐ Description of remediation activities			
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replaced to the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the conformation accordance with 19.15.29.13 NMAC including notification to the Conformation and re-vegetate the impacted surface area.	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.		
Printed Name:	Title:		
Signature: gloria garza	Date:		
email:	Telephone:		
OCD Only	04/02/2021		
Received by: Cristina Eads	Date:		
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.		
Closure Approved by: Juliuse 2	Date:		
Printed Name: Cristina Eads	Title: Environmental Specialist		

District I
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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

		Nes	phoner	Die Fait	y		
Responsible Party: Cin	narex Energy Co.			OGRID: 2	215099		
Contact Name: Laci Lu	Contact Name: Laci Luig Contact To		elephone: (432) 571-7800				
Contact email: lluig@c	cimarex.com			Incident #	(assigned by OCD)		
Contact mailing address Midland, TX 79701	ss: 600 N Marienfe	ld Street, Ste. 600)				
		Location	n of R	delease S	ource		
Latitude 32.158230		(NAD 83 in a	decimal de	Longitude grees to 5 decir	-104.243715 mal places)		
Site Name: White City	SWD Line			Site Type:	ROW		
Date Release Discovere	ed: 11/30/2020			API# (if app	plicable)		
Unit Letter Section	Township	Range		Cour	ntv		
J 1	25S	26E	Edd				
	rial(s) Released (Select	Nature an				olumes provided below)	
Crude Oil	Volume Releas	ed (bbls)			Volume Recove	ered (bbls)	
Produced Water	Volume Releas	sed (bbls) 155			Volume Recovered (bbls) 100		
		ation of dissolved >10,000 mg/l?	chloride	e in the	☐ Yes ☐ No		
Condensate	Volume Releas	sed (bbls)			Volume Recovered (bbls)		
Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)				
Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)				
nRM2022645367. We	a main water transf were in the process elease of 155 barre	s of moving the policy of produced wa	olyline on the olyline of the olyline olyline of the olyline oly	out of the dig water ran in	g zone using a skic to an area that hac	ediation work for Incident I steer and nylon strap. The fusion I already been dug out. We were able	

Received by OCD: 2/23/2021 10:53:44 AM State of New Mexico
Page 2 Oil Conservation Division

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	- 0					

Incident ID	NRM2034561113
District RP	
Facility ID	
Application ID	

Was this a major		sponsible party consider this a major release?
release as defined by	The amount of the release is greater th	an 25 barrels.
19.15.29.7(A) NMAC?		
⊠ Yes □ No		
If YES was immediate no	Lotice given to the OCD? By whom? To	whom? When and by what means (phone, email, etc)?
By: Gloria Garza	successive and one of the property of the prop	(Promo, cram, cra).
	rt Hamlet, Cristina Eads and BLM NM	CFO Spill
By: Email		
	Initial	Response
The responsible	party must undertake the following actions immed	liately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
		and the anxinonment
I <u> </u>	is been secured to protect human health	
		or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed	d and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, expl	ain why:
Der 10 15 20 9 D (4) NM	(AC the responsible party may common	ce remediation immediately after discovery of a release. If remediation
		lial efforts have been successfully completed or if the release occurred
		C), please attach all information needed for closure evaluation.
I hereby certify that the info	rmation 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
		he OCD does not relieve the operator of liability should their operations have threat to groundwater, surface water, human health or the environment. In
		or of responsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name: Laci Luio		Title: Engineer Tech.
Signature:	· 4	_ Date: 12/1/2020
email: lluig@cimarev.cor	m .	Telephone: (432) 571-7810
cman. naigwennaica.com		Telephone. (132) 371 7010
OCD Only		
_		
Received by: Ramon	a Marcus	Date: <u>12/10/2020</u>

<i>Received by OCD: 2/23/2021</i>	10:53:44 AM
Form C-141	State of New Mexico
Page 3	Oil Conservation Division

1	NRM2034561 1Rage 22 of	75
Incident ID		
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No		
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and 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 well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody	ls.		

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

Received by OCD: 2/23/2021 10:53:44 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

NRM2034561113	Page	23 of	75

Incident ID	
District RP	
Facility ID	
Application ID	

best of my knowledge and understand that pursuant to OCD rules and tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have teat to groundwater, surface water, human health or the environment. In f responsibility for compliance with any other federal, state, or local laws
_ Title:
Date:
Telephone:
04/3/2021 Date:

Received by OCD: 2/23/2021 10:53:44 AM Form C-141 State of New Mexico Page 6 Oil Conservation Division

NR	M2034561113 _{Page 24 of 7}	5
Incident ID -		
District RP		
Facility ID		
Application ID		

Closure

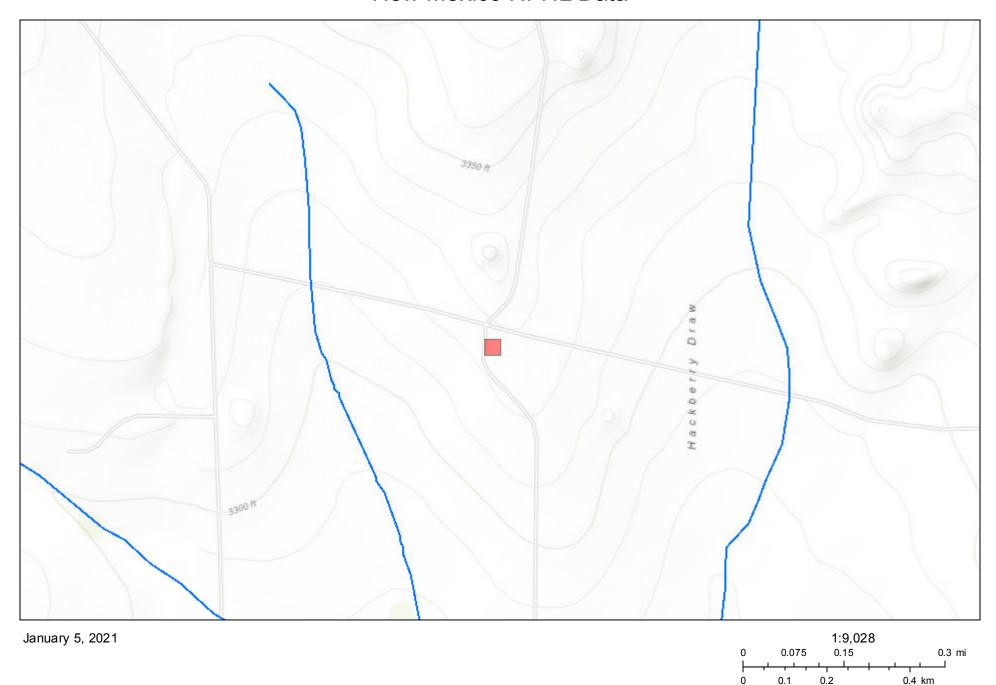
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

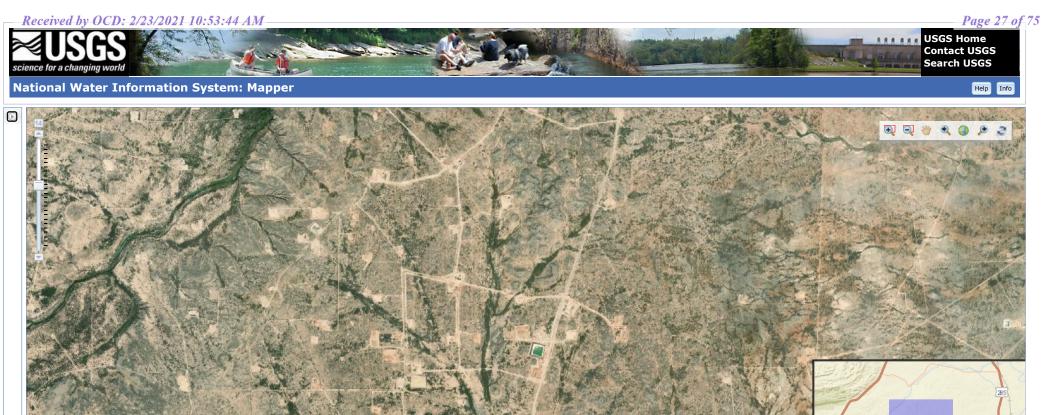
☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and remuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the Coaccordance.	ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.
Printed Name:	Title:
Printed Name: Signature: Gloria garza	Date:
email:	Telephone:
OCD Only Cristina Eads	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Juliu 2	Date: 04/07/2021
Printed Name: Cristina Eads	Title: Environmental Specialist

Appendix B

New Mexico NFHL Data



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



Site Information



USGS Home **Contact USGS** Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO

Click to hideNews 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

2003-02-10

2013-01-09 16:00 MST

2018-02-01 13:30 MST

Eddy County, New Mexico Latitude 32°07'33.9", Longitude 104°14'19.1" NAD83 Land-surface elevation 3,205.00 feet above NGVD29

D

m

13.47

12.81

6.24

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

Output formats

Table of data	1				-			_					
<u>Tab-separate</u>	ub-separated data												
Graph of dat	raph of data												
<u>Reselect period</u>													
Date lime level date- lime below land below land vertical datum level level approximately specific land vertical datum level level approximately serviced approximately serviced level serviced level approximately serviced level se							? Water- level approval status						
1983-02-01		D	8.42			2	2	U		U	Α		
1987-10-08	3	D	8.13			2	2	U		U	А		
1992-11-04	ŀ	D	8.94			2	2	S	U	Α			
1998-01-07	,	D	11.46			2	2	S		U	Α		

Explanation

2

2

2

S

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S

USGS

USGS

USGS

Α

R

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Α

Α

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	Α	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	Α	Approved for publication Processing and review completed.

(In feet)



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

closed) (quarters are smallest to largest) (NAD83 UTM in meters)

	POD Sub-		Q C) ດ						Denth	Denth	Water
POD Number	Code basin	County	-			Tws	Rng	Х	Υ	-	_	Column
C 01013	С	ED		4	25	25S	26E	571505	3551456* 🎒	245		
<u>C 01089</u>	С	ED	3 4	1	03	25S	26E	567505	3558398* 🌍	96	45	51
<u>C 01368</u>	С	ED	1	1	22	25S	26E	567261	3554059* 🎒	143	118	25
<u>C 02220</u>	CUB	ED	3 1	2	26	25S	26E	569598	3552352* 🎒	35		
C 02221	CUB	ED	4 3	2	25	25S	26E	571412	3551961* 🎒	35		
<u>C 02675</u>	С	ED	1 4	1	09	25S	26E	565907	3556978*	180	45	135
C 03258	С	ED	1 1	4	07	25S	26E	563073	3556546*	360		
C 03285	С	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	С	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	С	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

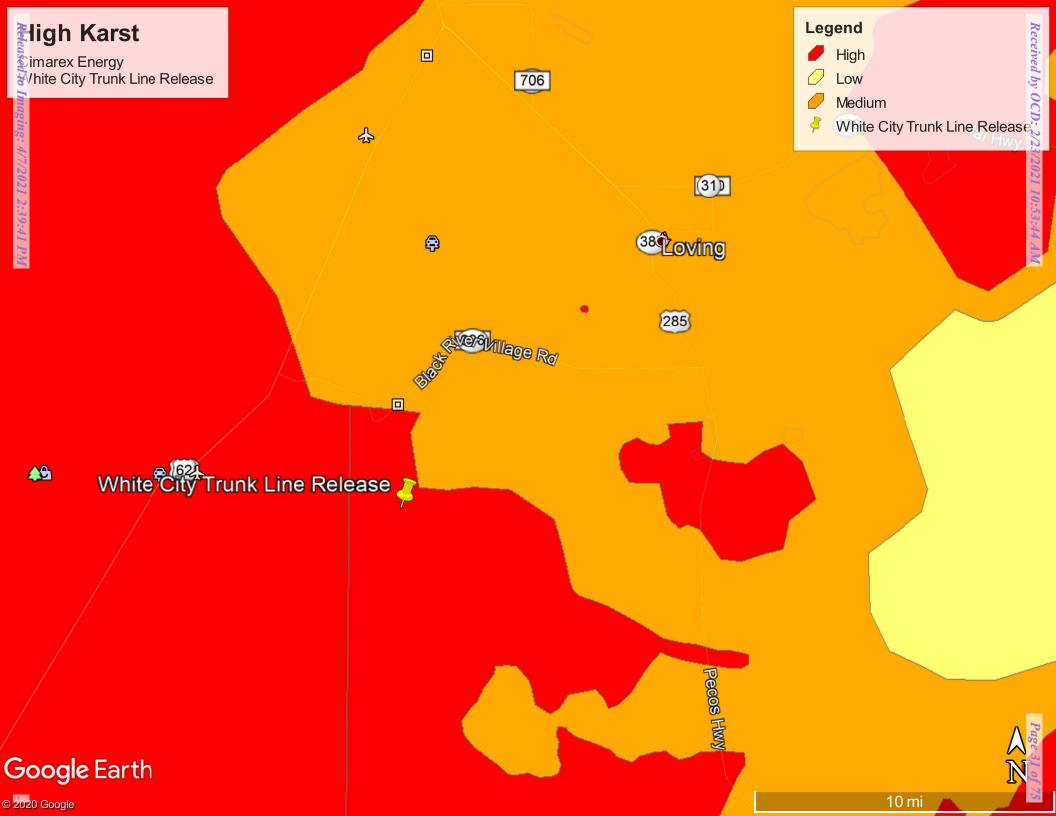
Record Count: 19

Basin/County Search:

County: Eddy

PLSS Search:

Township: 25S Range: 26E



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

	24 S	outh	2	5 East				24 Sc	outh	2	6 East			24 S	outh	2	7 East	
6	5 14 209	4 440 44	3	2	1		6 63	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12		7 250	8 450	9	10	11	12	7	8 17	9	10	11	12
					27									26	43			27
18	17	16	15	14	13 7		18	17	16	15	14 30	13	18 30	17	16	15	14	13 30
					163	l	650)				34					31
19	20	21	22	23	24		19	20	21	22		24 28	19	20	21	22	23	24
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30	29	28	27	26	25 540		30	29 46	28	27 3	0 26	25	30	29	28	27	26	25
					57		70											-
31	32	33	34	35	36		31		33	34	35	36	31	32	33	34	35	36
			150	500		J	/	109										
	25 S	outh	2	5 East				25 Sc	outh	2	6 East			25 S	outh	2	7 East	
6	5 30	4 46	3	2	1	1	6	5	4	3	2	1	6	5	4	3	2 33	1
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18	17	16	15	14	1/3		18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24		19	20	21	22	23	24	19	20	21	22	23	24
					70					118								
30	29	28	27	26	25	1	30	29	28	27	26	25	30	29	28	27	26	25
2.4	00	00	0.4	0.5	00		0.4	00	00	0.4	0.5	00	0.4	00	0.0	0.4	0.5	00
31	32	33	34	35	36		31	32	33	34	35	36	31	32	33	34	35	36
						J									19			Ь
	26 S	outh	2	5 East				26 Sc	outh	2	6 East			26 S	outh	2	7 East	
3	5	4	3	2	Ť	<u></u>	6	5	4	3	2	1	6	5	4	3	2	1
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7	8	9	10	11	12		7	ි <mark>22</mark>	9	10	11	12	7	8	9	10	11	12
10	47	4.0	15	14	150 13	ŀ	18	17	16	4.5	14	13	18	17	16	15	14	13
18	17	16	15	14	13		18	17	16	15	14	13	18	17	16	15	14	
1 0 19	29 20	6 21	22	23	24	ł	19	20	21	31 22	23	24	19	20	21	22	23	35
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30	29	28	27	26	25	- \	30	29	28	27	26	25	30	29	28	50 27	26	25
3 U	29	20	21	20	25		30	29	40	21	20	20	30	29	20	21	20	25
31	32	33	34	35	36	1	31	32	33	34	35	36	31	32	33	34	35	36
										4				1				

- 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

Fax: (432) 686-8085

Tetra TechProject:White City Trunk Line901 W Wall Street, Ste 100Project Number:212C-MD-02370.100Midland TX, 79705Project Manager:Brittany Long

et Number: 212C-MD-02370.100

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

Fax: (432) 686-8085

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

Midland TX, 79705 Project Manager: Brittany Long

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 %	80-1	20	P0L0708	12/07/20	12/07/20	EPA 8021B						
Surrogate: 1,4-Difluorobenzene		102 %	80-1	20	P0L0708	12/07/20	12/07/20	EPA 8021B						
General Chemistry Parameters by EPA / Sta	ndard Method	ds												
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 E	PA Method 80)15M												
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 %	70-1	30	P0L0302	12/03/20	12/03/20	TPH 8015M						
Surrogate: o-Terphenyl		97.2 %	70-1	30	P0L0302	12/03/20	12/03/20	TPH 8015M						
	ND		mg/kg dry		[CALC]	12/03/20		calc						

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100
Midland TX, 79705 Project Manager: Brittany Long

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin F	Environmen	tal Lab, l	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 %	80-1.	20	P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.2 %	80-1.	20	P0L0708	12/07/20	12/07/20	EPA 8021B	
General Chemistry Parameters by EPA / Sta	ndard Method	ds							
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 E	PA Method 80)15M							
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 %	70-1.	30	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		94.4 %	70-1.	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	Environmen	ıtal Lab, l	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 %	80-1	20	P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-1	20	P0L0708	12/07/20	12/07/20	EPA 8021B	
General Chemistry Parameters by EPA / Stand	lard Metho	ds							
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	A Method 80)15M							
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 %	70-1	30	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		95.0 %	70-1	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100
Midland TX, 79705 Project Manager: Brittany Long

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	nian Basin H	Environmer	ıtal Lab, l	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 %	80-1	20	P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		98.4 %	80-1	20	P0L0708	12/07/20	12/07/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	S							
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 80	15M							
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 %	70-1	30	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		97.5 %	70-1	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

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

Austra	Dl4	Reporting	T I i d	Dilution	Datah	D 1	A l	Makad	Notes
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	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 %	80-1	20	P0L0708	12/07/20	12/07/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.4 %	80-1	20	P0L0708	12/07/20	12/07/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	s							
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 l	oy EPA Method 80	15M							
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 %	70-1	30	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		103 %	70-1	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100
Midland TX, 79705 Project Manager: Brittany Long

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin E	Environmer	ıtal 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 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.3 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
General Chemistry Parameters by EPA / Stand	lard Metho	ds							
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	A Method 80)15M							
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 %	70-1	30	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		101 %	70-1	30	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	

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901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	ian Basin E	Environmen	ıtal Lab, l	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 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		93.3 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	s							
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 l	by EPA Method 801	15M							
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 %	70-1	30	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		98.6 %	70-1	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100
Midland TX, 79705 Project Manager: Brittany Long

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyce	Kesuit	Lillit	Omts	Dilution	Daten	Trepared	Anaryzeu	Wictiod	TVOICS
	Pern	nian Basin E	Environmei	ıtal Lab, l	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 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.9 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 l	oy EPA Method 80	15M							
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 %	70-1	30	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		100 %	70-1	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab, l	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 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.1 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
General Chemistry Parameters by EPA/	Standard Method	ls							
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 b	y EPA Method 80	15M							
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 %	70-1	30	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		102 %	70-1	30	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.

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.

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100
Midland TX, 79705 Project Manager: Brittany Long

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perm	nian Basin E	Environmer	ıtal Lab, l	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 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.1 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
General Chemistry Parameters by EPA	/ Standard Method	S							
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 80	15M							
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 %	70-1	30	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		95.5 %	70-1	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100
Midland TX, 79705 Project Manager: Brittany Long

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Peri	nian Basin E	Environmen	tal Lab, l	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 %	80-1.	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		98.8 %	80-1.	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
General Chemistry Parameters by EPA / Sta	ndard Method	ds							
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 E	PA Method 80)15M							
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 %	70-1.	30	P0L0302	12/03/20	12/03/20	TPH 8015M	
Surrogate: o-Terphenyl		96.2 %	70-1.	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100
Midland TX, 79705 Project Manager: Brittany Long

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ıtal Lab, l	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 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.3 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 h	oy EPA Method 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		91.8 %	70-1	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100
Midland TX, 79705 Project Manager: Brittany Long

ger: Brittany Long

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environme	ıtal Lab, l	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 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.9 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 l	oy EPA Method 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		86.6 %	70-1	30	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	

Tetra Tech Project: White City Trunk Line

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

Fax: (432) 686-8085

SW-1 0L03002-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ntal Lab, l	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 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.8 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 h	oy EPA Method 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		88.8 %	70-1	30	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	

Tetra Tech Project: White City Trunk Line

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

Fax: (432) 686-8085

SW-2 0L03002-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin F	Environme	ıtal Lab, l	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 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		93.8 %	80-1	20	P0L0708	12/07/20	12/11/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 l	oy EPA Method 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		89.3 %	70-1	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

SW-3 0L03002-16 (Soil)

	D 1	Reporting	T T 1:	D 31 - 3	D . 1	ъ.			N.
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	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 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.1 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 l	oy EPA Method 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		91.9 %	70-1	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

SW-4 0L03002-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Analyte	Result	LIIIII	Units	Dilution	Daten	rrepared	Allalyzeu	Method	notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	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 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.8 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 l	oy EPA Method 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		96.4 %	70-1	30	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	

Tetra Tech Project: White City Trunk Line

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

Fax: (432) 686-8085

SW-5 0L03002-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Per	mian Basin E	Environmer	ıtal 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 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		96.9 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
General Chemistry Parameters by EPA / Stan	dard Metho	ds							
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 EP	A Method 80)15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		95.9 %	70-1	30	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	

Fax: (432) 686-8085 Tetra Tech Project: White City Trunk Line

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

SW-6 0L03002-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmen	tal Lab, l	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 %	80-1.	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		100 %	80-1.	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
General Chemistry Parameters by EPA / S	Standard Method	ls							
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 80	15M							
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 %	70-1.	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		91.7 %	70-1.	30	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	

Tetra Tech Project: White City Trunk Line

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

Fax: (432) 686-8085

SW-7 0L03002-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environme	ntal Lab, l	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 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		99.0 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 b	oy EPA Method 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		95.0 %	70-1	30	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	

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

SW-8 0L03002-21 (Soil)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environmer	ıtal Lab, l	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 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		99.9 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	s							
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	oy EPA Method 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		97.8 %	70-1	30	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	

Fax: (432) 686-8085 Tetra Tech Project: White City Trunk Line

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

SW-9 0L03002-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ntal Lab, l	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 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		102 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 l	oy EPA Method 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		94.1 %	70-1	30	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	

Fax: (432) 686-8085 Tetra Tech Project: White City Trunk Line

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

SW-10 0L03002-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin E	Environme	ntal Lab, l	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 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		105 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		94.8 %	70-1	30	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	

Tetra Tech Project: White City Trunk Line

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

Fax: (432) 686-8085

SW-11 0L03002-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Perr	nian Basin I	Environme	ntal 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 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		97.0 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 l	oy EPA Method 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		95.7 %	70-1	30	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	

Fax: (432) 686-8085 Tetra Tech Project: White City Trunk Line

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705

Project Manager: Brittany Long

SW-12 0L03002-25 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
	Pern	nian Basin I	Environme	ıtal Lab, l	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 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		103 %	80-1	20	P0L1003	12/10/20	12/10/20	EPA 8021B	
General Chemistry Parameters by EPA	Standard Method	ls							
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 l	oy EPA Method 80	15M							
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 %	70-1	30	P0L0307	12/03/20	12/04/20	TPH 8015M	
Surrogate: o-Terphenyl		93.7 %	70-1	30	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	

Analyte

Ethylbenzene

Xylene (p/m)

Xylene (o)

Notes

Tetra Tech Project: White City Trunk Line 901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705

Result

0.117

0.220

0.106

0.00100

0.00200

0.00100

Project Manager: Brittany Long

Reporting

Limit

Fax: (432) 686-8085

RPD

Limit

20

20

20

%REC

Limits

RPD

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

Units

Spike

Level

0.100

0.200

0.100

Source

Result

%REC

117

110

106

70-130

70-130

70-130

13.9

13.6

13.1

Batch P0L0708 - General Preparatio	on (GC)								
Blank (P0L0708-BLK1)				Prepared & Ana	lyzed: 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 & Ana	lyzed: 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 & Ana	lyzed: 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	

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 & An	alyzed: 12/07/20		
Benzene	0.115	0.00100 mg/kg we	et 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.

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.

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

Midland TX, 79705 Project Manager: Brittany Long

Fax: (432) 686-8085

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0L0708 - General Preparation (C	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 (C	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			

Surroguie. 1,4-Dijiuorobenzene	0.111			0.120	92.0	00-120
Surrogate: 4-Bromofluorobenzene	0.114		"	0.120	95.2	80-120
LCS (P0L1003-BS1)				Prepared & Ana	alyzed: 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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Tetra Tech Project: White City Trunk Line
901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100

Midland TX, 79705 Project Manager: Brittany Long

Fax: (432) 686-8085

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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: 1	2/10/20 At	nalyzed: 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			

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.

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

0.143

0.138

Midland TX, 79705 Project Manager: Brittany Long

Fax: (432) 686-8085

BTEX by 8021B - Quality Control Permian Basin Environmental Lab, L.P.

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch P0L1003 - General Preparation (GC)									
Matrix Spike (P0L1003-MS1)	Sour	rce: 0L03002	-16	Prepared: 1	2/10/20 A	nalyzed: 12	2/11/20			
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)	Sour	rce: 0L03002	-16	Prepared: 1	2/10/20 A	nalyzed: 12	2/11/20			
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

0.132

0.132

109

105

80-120

80-120

Surrogate: 4-Bromofluorobenzene

Surrogate: 1,4-Difluorobenzene

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

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

		D ('		G 7			0/DEC		DDD	
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)	Sou	rce: 0L03002	-10	Prepared &	& Analyzed:	12/04/20				
% Moisture	20.0	0.1	%		20.0			0.00	20	
Duplicate (P0L0404-DUP2)	Sou	rce: 0L03002	-20	Prepared &	& Analyzed:	12/04/20				
% Moisture	9.0	0.1	%		8.0			11.8	20	
Batch P0L0705 - *** DEFAULT PREP ***										
				Duamanadı	12/07/20 A	malværadi 12	/17/20			
Blank (P0L0705-BLK1) Chloride	ND	1.00	mg/kg wet	Prepared:	12/07/20 A	nalyzed: 12	/1//20			
Cilioride	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	<u> </u>	103	0-200			
Calibration Cheek (DOI 0705 CCV2)				Duamana 1 G	2- Amoly 17-1	12/07/20				
Calibration Check (P0L0705-CCV2)					& Analyzed:		0.000			
Chloride	21.3		mg/kg	20.0		107	0-200			

Permian Basin Environmental Lab, L.P.

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

General Chemistry Parameters by EPA / Standard Methods - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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)	Sour	rce: 0L03002	2-01	Prepared &	& Analyzed:	12/07/20				
Chloride	1420	10.5	mg/kg dry	1050	302	106	80-120			
Matrix Spike (P0L0705-MS2)	Sour	rce: 0L03002	2-11	Prepared &	& Analyzed:	12/07/20				
Chloride	1790	12.5	mg/kg dry	1250	500	103	80-120			
Matrix Spike Dup (P0L0705-MSD1)	Sour	rce: 0L03002	2-01	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)	Sour	rce: 0L03002	2-11	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 A	nalyzed: 12	/09/20			
Chloride	ND	1.00	mg/kg wet							
LCS (P0L0706-BS1)				Prepared:	12/07/20 A	nalyzed: 12	/09/20			
Chloride	452	1.00	mg/kg wet	400		113	80-120			
LCS Dup (P0L0706-BSD1)				Prepared:	12/07/20 A	nalyzed: 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 A	nalyzed: 12	/09/20			
Chloride	21.6		mg/kg	20.0		108	0-200			

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

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

	Reporting			Spike	Source		%RFC	%REC RPD			
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
Batch P0L0706 - *** DEFAULT PREP ***											
Datch FULU/UU - """ DEFAULT PREP """											
Calibration Check (P0L0706-CCV2)				Prepared:	12/07/20 A	nalyzed: 12	2/09/20				
Chloride	22.2		mg/kg	20.0		111	0-200				
Calibration Check (P0L0706-CCV3)				Prepared:	12/07/20 A	nalyzed: 12	2/09/20				
Chloride	22.4		mg/kg	20.0		112	0-200				
Matrix Spike (P0L0706-MS1)	Sour	ce: 0L03002	-21	Prepared:	12/07/20 A	malyzed: 12	2/10/20				
Chloride	1230	11.0	mg/kg dry	1100	219	91.7	80-120				
Matrix Spike (P0L0706-MS2)	Sour	ce: 0L07007	-04	Prepared:	12/07/20 A	nalyzed: 12	2/09/20				
Chloride	675	1.05	mg/kg dry	526	202	90.0	80-120				
Matrix Spike Dup (P0L0706-MSD1)	Sour	ce: 0L03002	-21	Prepared:	12/07/20 A	nalyzed: 12	2/10/20				
Chloride	1310	11.0	mg/kg dry	1100	219	99.5	80-120	6.68	20		
Matrix Spike Dup (P0L0706-MSD2)	Sour	ce: 0L07007	-04	Prepared:	12/07/20 A	nalyzed: 12	2/09/20				
Chloride	688	1.05	mg/kg dry	526	202	92.4	80-120	1.89	20		

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100
Midland TX, 79705 Project Manager: Brittany Long

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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			

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.

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100
Midland TX, 79705 Project Manager: Brittany Long

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0L0302 - TX 1005										
Matrix Spike (P0L0302-MS1)	Sourc	e: 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)	Sourc	e: 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: 1	12/03/20 Aı	nalyzed: 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: 1	12/03/20 Aı	nalyzed: 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: 1	12/03/20 Aı	nalyzed: 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			

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.

Fax: (432) 686-8085 Tetra Tech Project: White City Trunk Line

901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100 Midland TX, 79705 Project Manager: Brittany Long

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch P0L0307 - TX 1005										
Calibration Check (P0L0307-CCV1)				Prepared:	12/03/20 A	nalyzed: 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 A	nalyzed: 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)	Sour	rce: 0L03002	2-20	Prepared:	12/03/20 A	nalyzed: 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)	Sour	rce: 0L03002	2-20	Prepared:	12/03/20 A					
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			

Tetra Tech Project: White City Trunk Line Fax: (432) 686-8085
901 W Wall Street, Ste 100 Project Number: 212C-MD-02370.100

Midland TX, 79705 Project Manager: Brittany Long

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

	Drew	Darron			
Report Approved By:			Date:	12/17/2020	

Brent Barron, Laboratory Director/Technical Director

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

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

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.

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Bottomhole-5 (7') Bottomhole-6 (7') Bottomhole-7 (7') Bottomhole-9 (1') Bottomhole-10 (1') Date: Time: Date: Time:					Bottomhole-5 (7') Bottomhole-6 (7') Bottomhole-7 (7') Bottomhole-8 (7') Bottomhole-9 (1') Bottomhole-10 (1')	Bottomhole-5 (7') Bottomhole-6 (7') Bottomhole-7 (7') Bottomhole-8 (7') Bottomhole-9 (1')	Bottomhole-5 (7') Bottomhole-6 (7') Bottomhole-7 (7') Bottomhole-8 (7')	Bottomhole-5 (7') Bottomhole-6 (7') Bottomhole-7 (7')	Bottomhole-5 (7') Bottomhole-6 (7')	Bottomhole-5 (7')		Bottomhole-4 (7')	Bottomhole-3 (7')	Bottomhole-2 (7')	Bottomhole-1 (7')		SAMPLE IDENTIFICATION			Lab	Cimarex/Gloria Garza	Eddy County, New Mexico	White City Trunk Line	rex	Tetra Tech, Inc.	of Custody Record
Received by:	Rećeved by	Rećeived by			Received by:	12/2/2020	12/2/2020	12/2/2020	12/2/2020	12/2/2020	12/2/2020	12/2/2020	12/2/2020	12/2/2020	12/2/2020	DATE	YEAR: 2020	SAME		Sampler Signature:		Project #:		Site Manager:		
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		Date: HHe:		: Date: Time:	12/3	Date: Time:	SW-7	SW-6	S-WS	SW-4	S-W-3	SW-2	SW-1	Bottomhole-13 (1')	Bottomhole-12 (1')	Bottomhole-11 (1')		SAMPLE IDENTIFICATION			atory: PBE Lab	Cimarex/Gloria Garza	Eddy County, New Mexico	White City Trunk Line	Cimarex	Tetra Tech, Inc.	of 73 Analysis Request of Chain of Custody Record
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74 of Panalysis Request of	74 Analysis Request of Chain of Custody Record						
Pd	Tetra Tech, Inc.		900 West V Midlan Tel (4 Fax (4	900 West Wall Street, Ste 100 Midland,Texas 79701 Tel (432) 682-4559 Fax (432) 682-3946		00	~005W
Client Name:	Cimarex	Site Manager:	Brittany Long	ong			įźΙ
Project Name:	White City Trunk Line						
Project Location: (county, state)	Eddy County, New Mexico	Project #:	212C-N	212C-MD-02370.100			
Invoice to:	Cimarex/Gloria Garza					lg	<u>19</u>
Receiving Laboratory:	PBE Lab	Sampler Signature:	Devin I	Devin Dominguez		o Se H	u se F
						OR Pb	
Comments:						DRO - 0	624
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	9-WS	12/2/2020	×		- Z	×	
	SW-10	12/2/2020	×	-	- Z	×	
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<i>Receiv</i>							

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

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

District III

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

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

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

CONDITIONS

Action 18578

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
CIMARE	X ENERGY CO.	600 N. Marienfeld Street	215099	18578	C-141
Suite 600	Midland, TX79701				

OCD Reviewer	Condition
ceads	None