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	NRM2019550034
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: WPX Energy Permian, LLC.			OGRID: 246289				
Contact Name: Lynda Laumbach			Contact Telephone: (575) 725-1647				
Contact ema	il: Lynda.La	aumbach@wpxen	ergy.com		Incident #	# (assigned by OCD)	
Contact mail	ing address:	: 5315 Buena Vist	a Drive, Carlsba	d, NM 8	8220		
			Location	n of R	Release So	Source	
Latitude3	2.0799323				Longitude	-103.9563395	
			(NAD 83 in 6	decimal de	egrees to 5 decin	imal places)	
Site Name: N	orth Brushy	Federal 35 #004	H TB		Site Type:	: Production Facility	
Date Release	Discovered	: 06/29/2020			API# (if app	pplicable): 30-015-42290	
					<u> </u>		
Unit Letter	Section	Township	Range		Cour	ınty	
N	35	25S	29E	Edd	y		
	Materia		Nature ar	nd Vo	lume of l	ic justification for the volumes provided below)	
Crude Oi	1	Volume Releas	ed (bbls):			Volume Recovered (bbls):	
X Produced	Water	Volume Releas	ed (bbls): 10			Volume Recovered (bbls): 10	
			ation of dissolved >10,000 mg/l?	chlorid	e in the	☐ Yes ☐ No	
Condensa	ite	Volume Releas	ed (bbls)			Volume Recovered (bbls)	
☐ Natural Gas Volume Released (Mcf)			Volume Recovered (Mcf)				
Other (describe) Volume/Weight Released (provide units))	Volume/Weight Recovered (provide units)				
	developed o	on PW line en rou All fluids were red				estimated 10bbl of PW to be released inside the lined	

Received by OCD: 12/15/2020/12:005111AM Form C-14-1 State of New Mexico Page 2 Oil Conservation Division

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Incident ID	NRM2019550034
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respo	nsible party consider this a major release?			
19.15.29.7(A) NMAC?					
☐ Yes X No					
If VEC was immediate as	ation airean to the OCD? Drawbown? To wi	nom? When and by what means (phone, email, etc)?			
II YES, was immediate no	buce given to the OCD? By whom? To wi	iom? when and by what means (phone, email, etc)?			
	Initial R	esponse			
The responsible p	party must undertake the following actions immediate	y unless they could create a safety hazard that would result in injury			
X The source of the rele	ease has been stopped.				
The impacted area ha	s been secured to protect human health and	the environment.			
X Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.			
X All free liquids and re	ecoverable materials have been removed an	d managed appropriately.			
If all the actions described above have <u>not</u> been undertaken, explain why:					
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.			
regulations all operators are public health or the environr failed to adequately investig	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a through	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws			
Printed Name:Lyne		Title: Environmental Specialist			
Signature:	Jamback	Date: _07/06/2020			
email: Lynda.Laumbac		Telephone: (575)725-1647			
OCD Only					
Received by: Ramona	Marcus	Date: 7/13/2020			
		<u></u>			

	Page 3 of 1	4
nt ID	NRM2019550034	

Incident ID	NRM2019550034
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?	>50 (ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes X No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes X 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 X No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	X 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 X No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes X No			
Are the lateral extents of the release within 300 feet of a wetland?	Yes X 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 X No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes X No			
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X 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.

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

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

Received by OCD: 12/15/2020 12:00:11 AM Form C-141 State of New Mexico
Page 4 Oil Conservation Division

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Incident ID	NRM2019550034
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. Title: Environmental Specialist Lynda Laumbach Printed Name: Date: 12/14/2020 Signature: Telephone: (575)725-1647 email: Lynda.Laumbach@wpxenergy.com **OCD Only** Date: 4/20/2021 Received by: Karen Collins

Page 5 of 147

Incident ID	NRM2019550034
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included:	ded in the plan.			
 □ Detailed description of proposed remediation technique □ Scaled sitemap with GPS coordinates showing delineation points □ Estimated volume of material to be remediated □ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC □ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
Deferral Requests Only: Each of the following items must be confirme	d as part of any request for deferral of remediation.			
X Contamination must be in areas immediately under or around producti deconstruction.	on equipment where remediation could cause a major facility			
X Extents of contamination must be fully delineated.				
X Contamination does not cause an imminent risk to human health, the e	nvironment, or groundwater.			
I hereby certify that the information given above is true and complete to the rules and regulations all operators are required to report and/or file certain which may endanger public health or the environment. The acceptance of liability should their operations have failed to adequately investigate and resurface water, human health or the environment. In addition, OCD accept responsibility for compliance with any other federal, state, or local laws are	release notifications and perform corrective actions for releases a C-141 report by the OCD does not relieve the operator of emediate contamination that pose a threat to groundwater, ance of a C-141 report does not relieve the operator of			
Printed Name: Lynda Laumbach Tit	le:Environmental Specialist			
	e: 12/14/2020			
	ephone: (575)725-1647			
OCD Only				
Received by: Karen Collins Date	: _4/20/2021			
☐ Approved with Attached Conditions of Appro	val Denied Deferral Approved			
Signature: Karen Collins Date:	4/20/2021			

NM OIL CONSERVATION

ARTESIA DISTRICT

FEB 1 2 2015 Form C-141 Revised August 8, 2011

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

State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

Release Notification and Corrective Action												
NAB1504835072					OPERA?	ГOR	×	Initi	al Report		Final Report	
Name of Co		RKI E&P, L		246289		Contact	Zack Laird					
Address Facility Nar		k Ave. – Ste. n Brushy Dra		C, OK 73102			No. 405-742-20 be : Oil and Gas					
			W 33-411				c . On and Gas					
Surface Ow	ner: Fede	ral	_	Mineral O	wner: I	ederal		<u></u>	API No	. 30-015-	12290	
		·				OF REI						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/Wes	st Line	County		
A 35 25S 29E 175 FS			175 FS	L		2365FW	L	Eddy				
Latitude: 32.0793265 Longitude: -103.9554992												
NATURE OF RELEASE												
Type of Relea							Release: 30Bbls			e Recovered		
Source of Kei	iease I ank	s over ran bed	ause on w	vasn't nauled			lour of Occurrenc 0800hrs MT	e		nd Hour of I 5 – 0900hrs		ery
Was Immedia	ate Notice C						Whom? Heather	Patterson				
			Yes	No Not Re	quired							
By Whom? Z Was a Watero		had?					lour: 02/12/15 - 1					
was a water	ourse Reac		Yes 🛛	No	i	N/A	dume Impacting the	ne waterco	ourse.			
If a Watercou	rse was Imp	pacted, Descri	be Fully.*	N/A						· · · · · · · · · · · · · · · · · · ·		
	If a Watercourse was Impacted, Describe Fully.* N/A						í					
Describe Cau	Describe Cause of Problem and Remedial Action Taken.*											
Oil tanks ran over during normal well production activity because oil wasn't hauled.												
Dispatched oil haulers to haul oil. Recovered oil from lined containment with vacuum truck and wash containment.												
Describe Area Affected and Cleanup Action Taken.*												
All fluid remained in secondary containment berm, 30/30Bbls recovered.												
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and												
regulations all	operators a	are required to	report and	d/or file certain re	lease no	tifications an	d perform correct	ive actions	for rele	ases which:	may en	ndanger
public health of	or the envir	onment. The	acceptance	e of a C-141 repor investigate and re	t by the	NMOCD ma	irked as "Final Re	port" does	not relie	eve the oper	ator of	liability
or the environ	ment. In ad	ldition, NMO	CD accept	ance of a C-141 re	eport do	es not relieve	the operator of re	at to groun	tv for co	mpliance wa	ith anv	other
federal, state,					<u> </u>							
,	,	//	- 1				OIL CONS	<u>ERVA</u> 1	rion i	<u>DIVISIO</u>	<u>N</u>	
Signature:	181								11			
Printed Name: Zack Laird Approved by Environmental Specialist:					-							
		u			<u> </u>	<u> </u>	2/10/11	-	10	4-2		-
Title: Sr. EHS	Manager				A	pproval Date	: 4/1/11) Expi	iration D	Pate: N/f	<u>1</u>	
E-mail Addres	s: ZLaird@	rkixp.com			C	onditions of A	Approval:			Attached		
Date: 02/12/1	5		Phone	405-987-2213	48	mediation	n per O.C.D. I	Rules &	Gulde	lines	ш	
Attach Additi		s If Necessa		TUJ-701-2213		TER THAI	MEDIATION I	HOPOS	AL N			
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ew Mexico Page 7 of 147

Incident ID	
District RP	2RP-2814
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>50 (ft bgs)
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Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	X Yes No
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Are the lateral extents of the release within a 100-year floodplain?	☐ Yes X No
Did the release impact areas not on an exploration, development, production, or storage site?	Yes X 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.

- X Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
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Received by OCD: 12/15/2020 12:00:11 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	
District RP	2RP-2814
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release noti public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a thre addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
Printed Name: Lynda Laumbach	Title: Environmental Specialist
Signature: Justa Sambach	Date: 12/14/2020
email: Lynda.Laumbach@wpxenergy.com	Telephone: (575)725-1647
OCD Only	
Received by:	Date:

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Incident ID	
District RP	2RP-2814
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.			
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\overline{X} Extents of contamination must be fully delineated.				
X Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of			
Printed Name: Lynda Laumbach	Title:Environmental Specialist			
Printed Name: Lynda Laumbach Signature: Lynda Laumbach	Date: 12/14/2020			
email: Lynda.Laumbach@wpxenergy.com	Telephone: (575)725-1647			
OCD Only				
Received by:	Date:			
☐ Approved ☐ Approved with Attached Conditions of	Approval			
Signature:	Date:			



December 14, 2020 Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210

Re: North Brushy Federal 35 #004H Release Deferral Request (NRM2019550034 & 2RP-2814)

Mr. Bratcher,

This report summarizes the secondary containment inspection activities at the North Brushy Federal 35 #004H multi-well pad (Site). The topographic map of the Site is provided as Figure 01. On June 29, 2020, a produced water line inside secondary lined containment developed a pinhole leak releasing 10 barrels (bbls) of produced water into the containment. No fluids were observed outside the containment and all fluids were recovered using a water truck. A previous historical release occurred on February 12, 2015, 2RP-2814, due to an oil tank overflow releasing 30 bbls of oil. All fluids were reported to be recovered

Well Location: North Brushy Federal 35 #004H (& #005H)

API #:30-015-42290

NMOCD Reference #: NRM2019550034, 2RP-2814

Site Location Description: Unit Letter N, Section 35, Township 25S, Range 29E

Release Latitude/Longitude: N32.0799323, W103.9563395

Land Jurisdiction: Federal

Agency Notification: New Mexico Oil Conservation Division (NMOCD), Artesia District Office

NMOCD Site Characterization Standards

The Closure criteria of this site was determined based on the New Mexico Administrative Code (NMAC) Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12). Depth to groundwater at the site is estimated to be greater than 50 feet below ground surface (bgs). The Site is located within 300 feet of an OSE waterbody. Based on the criteria outlined above, the closure criteria from the NMOCD Table 1 are as follows:

- 600 milligrams per kilogram (mg/kg) Chloride
- 50 mg/kg Benzene, Toluene, Ethylbenzene, and xylenes (BTEX)
- 10 mg/kg Benzene
- 100 mg/kg Total Petroleum Hydrocarbons (TPH)

Field Activities

On July 7, 2020, WPX personnel were onsite to confirm the release extent. The area of interest is located on Figure 02. The secondary liner containment was washed on July 14, 2020. The liner inspection was completed July 15, 2020. The liner was found to be compromised in three locations marked on Figure 02 as BH01, BH02, and BH03. Samples were advanced at these three locations on August 6, 2020. On October 30, 2020 a Consultant was utilized to further delineate

underneath the liner. Final sampling was completed on November 19, 2020. Photographs of the described work are provided in Attachment 01.

Sampling Activities

Discrete samples were taken to confirm that contamination was contained to the Site surface and underneath the lined secondary containment. All samples were taken with decontaminated equipment, jarred in precleaned glass soil jars, labelled with sample name, date, Site name, and depth, and immediately placed on ice to lower sample temperatures below 4° Celsius, adhering to the chain of custody of Xenco laboratories. Analysis was completed at Xenco Laboratories in Carlsbad, NM. All samples were analyzed for Chlorides via Method EPA 300.0, TPH via Method 8015M, and BTEX via Method 8021B.

Laboratory Analytical Results

The laboratory analytical results of impacted soils showed elevated levels of chlorides and TPH at BH01 and BH02 to a depth down to 0.5 feet bgs. The contamination cleared up to below standards at 6-6.5 feet and 2-2.5 feet bgs in corresponding CH01 and CH02, respectively. The sample locations are depicted in Figure 02. All sample results are summarized in Table 01 and complete laboratory results are provided in Attachment 02.

- Chloride samples ranged from 10.9 to 6,190 mg/kg
- BTEX analysis ranged from below the Laboratory detectable limit to 0.377 mg/kg
- Benzene analysis was below the Laboratory detectable limit
- TPH ranged from below the Laboratory detectable limit to 10,900 mg/kg

Based on soil analysis of DS01-DS04 the impacted area is estimated to be no greater than the dimensions of the lined secondary containment, 45 feet X 130 feet. A soil volume of 650 cubic yards and not exceeding 1,300 cubic yards is estimated to remain underneath the liner at a an average contamination depth of 4.5 feet bgs.

Conclusions

The liner inspection to address the release impacts from NRM2019550034 and 2RP-2814 demonstrates compliance with the Table 1 Closure Criteria set forth by the NMOCD. The secondary containment was determined to be intact and functioning properly to contain releases. WPX requests no further action for these incidents currently. Once the Site is abandoned and approved for reclamation, WPX will conduct further soil testing and remove contamination until contaminant levels meet the closure criteria outlined above to comply with NMOCD and Bureau of Land Management standards for reclamation. The updated C-141s are attached to the beginning of this report.

If any questions or further information is warranted, please do not hesitate to contact me by cell phone at (575) 725-1647 or by email at Lynda.Laumbach@wpxenergy.com.

Best regards,

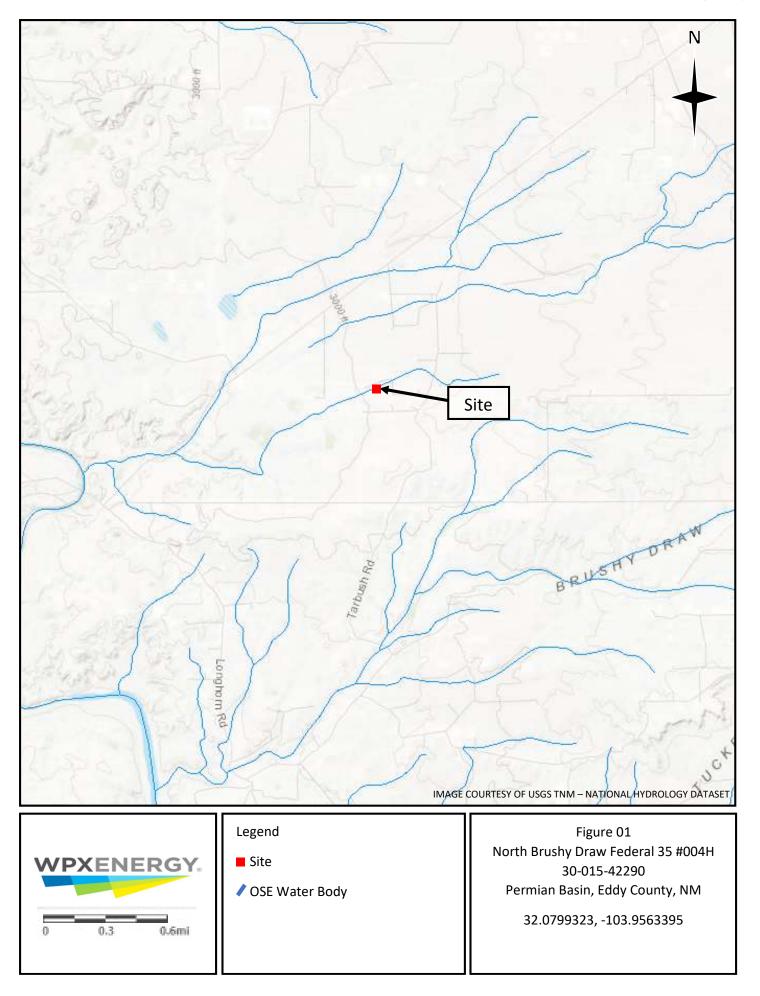
Lynda Laumbach

Environmental Specialist

CC: Robert Hamlet, NMOCD Victoria Venegas, NMOCD

Attachments:
Figure 01 Topography
Figure 02 Site Map
Table 01 Soil Sample Results
Attachment 01 Photograph Log
Attachment 02 Analytical Results

Figures







Legend

X Point of Release

Figure 02 North Brushy Draw Federal 35 #004H 30-015-42290 Permian Basin, Eddy County, NM 32.0799323, -103.9563395 Table



TABLE 01 SOIL SAMPLE ANALYTICAL RESULTS

North Brushy Federal 35 #004H NMOCD REFERENCE NUMBER: NRM2019550034 & 2RP-2814

Sample Name	Depth (ft bgs)	Sample Date	Benzene (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
BH01	0.1 - 0.3	08/07/2020	<0.00200	<0.00200	<250	9780	1080	9780	10900	116
BH01A	0.3 - 0.5	08/07/2020	<0.00500	<0.00500	<249	9740	938	9740	10700	33.6
CH01	4 - 4.5	10/30/2020	<0.00200	<0.00200	<13.9	11.6	<11.5	11.6	11.6	6190
CH01	6 - 6.5	10/30/2020	<0.00200	<0.00200	<50.2	<50.2	<50.2	-	-	208
CH01	8 - 8.5	10/30/2020	<0.00200	<0.00200	<50.2	<50.2	<50.2	-	-	120
BH02	0.2 - 0.5	08/07/2020	<0.00250	0.377	<251	2900	399	2900	3300	5400
BH02A	2 - 2.5	08/07/2020	<0.00200	<0.00200	<49.8	81.6	<49.8	81.6	81.6	5630
CH02	2 - 2.5	10/30/2020	<0.00202	<0.00202	<49.9	<49.9	<49.9	-	-	64.3
CH02	4 - 4.5	10/30/2020	<0.00199	<0.00199	<50.3	<50.3	<50.3	-	-	34.2
CH02	6 - 6.5	10/30/2020	<0.00200	<0.00200	<50.1	<50.1	<50.1	-	-	148
CH02	8 - 8.5	10/30/2020	<0.00201	<0.00201	<49.8	<49.8	<49.8	-	-	136
BH03	0.2 - 0.5	08/07/2020	<0.00202	<0.00202	<50.1	<50.1	<50.1	-	-	43.4
BH03A	0.5 - 1	08/07/2020	<0.00200	<0.00200	<50.2	<50.2	<50.2	-	-	54.6
DS01	0.5	11/20/2020	<0.00199	<0.00199	<50.2	<50.2	<50.2	-	-	128.0
DS01A	1	11/20/2020	<0.00199	<0.00199	<49.9	<49.9	<49.9	-	-	63.6
DS02	0.5	11/20/2020	<0.00201	<0.00201	<50.1	<50.1	<50.1	-	-	66.4
DS02A	1	11/20/2020	<0.00199	<0.00199	<49.8	<49.8	<49.8	-	-	30.4
DS03	0.5	11/20/2020	<0.00201	<0.00201	<49.9	<49.9	<49.9	-	-	18.0
DS03A	1	11/20/2020	<0.00202	<0.00202	<50.1	<50.1	<50.1	-	-	27.1
DS04	0.5	11/20/2020	<0.002	<0.002	<49.8	<49.8	<49.8	-	-	10.9
DS04A	1	11/20/2020	<0.002	<0.002	<49.8	<49.8	<49.8	-	-	11.9
NMOCD Table 1 (Closure Crite	ria	10	50	NE	NE	NE	-	100	600



Reference: BTEX: benzene, toluene, ethylbenzene, and total xylenes mg/kg: milligrams per kilogram
GRO: gasoline range organics NMOCD: New Mexico Oil Conservation Division
DRO: diesel range organics TPH: total petroleum hydrocarbons
ft bgs: feet below ground surface
NMOCD Table 1 Closure Criteria: NMAC 19.15.29 August 2018 criteria for soils impacted based on characterization

Attachment 01: Photograph Log



Distance 4. Linear team at DUO4	Distance 2 Linearteen at BUO2
Picture 1- Liner tear at BH01 6-Aug-20	Picture 2- Liner tear at BH02 6-Aug-20
0 / ldg 20	0 7/45 20
Picture 3- Liner tear at BH03	Picture 4- East face, Northwest edge of TB
6-Aug-20	6-Aug-20



Picture 5- West face, Northy	vest edge of TB
6-Aug-20	

Picture 6- East face, west side of TB

6-Aug-20





Picture 7- West face, south edge of TB

Picture 8- East face, south side of TB

6-Aug-20









Picture 10- West face,east side of TB
20-Nov-20
Picture 12- North face, west side of TB
20-Nov-20

Attachment 02: Analytical Reports



Certificate of Analysis Summary 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: North Brushy Draw 35-04 H

Project Id: Contact:

Lynda Laumbach

Project Location:

Eddy County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:35

Report Date: 11.25.2020 07:29

Project Manager: Jessica Kramer

	Lab Id:	678647-0	001	678647-0	002	678647-0	003	678647-0	004	678647-0	005	678647-0	006
Analysis Requested	Field Id:	DS01		DS01	4	DS02		DS02 A		DS03		DS03 A	١.
Anaiysis Requesteu	Depth:	0.5- ft		1- ft		0.5- ft	:	1- ft		0.5- ft	:	1- ft	
	Matrix:	SOIL		SOIL		SOIL	,	SOIL	,	SOIL	,	SOIL	,
	Sampled:	11.20.2020	10:00	11.20.2020	10:15	11.20.2020	10:30	11.20.2020	10:40	11.20.2020	10:50	11.20.2020	11:10
BTEX by EPA 8021B	Extracted:	11.21.2020	17:01	11.21.2020	17:01	11.21.2020	17:01	11.21.2020	17:04	11.21.2020	17:04	11.21.2020	17:04
	Analyzed:	11.22.2020	04:14	11.22.2020	04:36	11.22.2020	04:59	11.22.2020	09:08	11.22.2020	09:30	11.22.2020	09:52
	Units/RL:	mg/kg	RL										
Benzene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202
Toluene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202
Ethylbenzene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202
m,p-Xylenes		< 0.00398	0.00398	< 0.00398	0.00398	< 0.00402	0.00402	< 0.00398	0.00398	< 0.00402	0.00402	< 0.00403	0.00403
o-Xylene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00199	0.00199	< 0.00201	0.00201	< 0.00202	0.00202
Total Xylenes		< 0.001990	0.001990	< 0.001990	0.001990	< 0.002010	0.002010	< 0.001990	0.001990	< 0.002010	0.002010	< 0.002020	0.002020
Total BTEX		< 0.001990	0.001990	< 0.001990	0.001990	< 0.002010	0.002010	< 0.001990	0.001990	< 0.002010	0.002010	< 0.002020	0.002020
Inorganic Anions by EPA 300	Extracted:	11.23.2020	07:52	11.23.2020	07:52	11.23.2020	07:52	11.20.2020	17:47	11.20.2020	17:47	11.20.2020	17:47
	Analyzed:	11.23.2020	11:21	11.23.2020	11:26	11.23.2020	11:31	11.21.2020	03:23	11.21.2020	03:39	11.21.2020	03:54
	Units/RL:	mg/kg	RL										
Chloride		128	9.98	63.6	9.96	66.4	9.98	30.4	9.98	18.0	9.92	27.1	9.98
TPH by SW8015 Mod	Extracted:	11.21.2020	16:00	11.21.2020	16:00	11.21.2020	16:00	11.21.2020	16:00	11.21.2020	16:00	11.21.2020	16:00
	Analyzed:	11.21.2020	19:39	11.21.2020	20:39	11.21.2020	21:00	11.21.2020	21:20	11.21.2020	21:41	11.21.2020	22:01
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	<49.9	49.9	< 50.1	50.1	<49.8	49.8	<49.9	49.9	< 50.1	50.1
Diesel Range Organics (DRO)		< 50.2	50.2	<49.9	49.9	< 50.1	50.1	<49.8	49.8	<49.9	49.9	< 50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		< 50.2	50.2	<49.9	49.9	< 50.1	50.1	<49.8	49.8	<49.9	49.9	< 50.1	50.1
Total TPH		<50.20	50.20	<49.90	49.90	<50.10	50.10	<49.80	49.80	<49.90	49.90	<50.10	50.10

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Kramer



Certificate of Analysis Summary 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

Project Name: North Brushy Draw 35-04 H

Project Id: Contact:

Lynda Laumbach

Project Location:

Eddy County, New Mexico

Date Received in Lab: Fri 11.20.2020 14:35

Report Date: 11.25.2020 07:29

Project Manager: Jessica Kramer

	Lab Id:	678647-00	07	678647-0	08		
	Field Id:	DS04		DS04 A			
Analysis Requested	Depth:	0.5- ft		1- ft			
	Matrix:	SOIL		SOIL			
	Sampled:	11.20.2020 1	11:30	11.20.2020	11:40		
DTEV b., EDA 9031D	_						
BTEX by EPA 8021B	Extracted:	11.21.2020		11.21.2020			
	Analyzed:	11.22.2020	10:15	11.22.2020	10:37		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Benzene			0.00200		0.00200		
Toluene			0.00200		0.00200		
Ethylbenzene			0.00200		0.00200		
m,p-Xylenes			0.00399		0.00399		
o-Xylene			0.00200		0.00200		
Total Xylenes		<0.002000		<0.002000			
Total BTEX		<0.002000	0.002000	< 0.002000	0.002000		
Inorganic Anions by EPA 300	Extracted:	11.20.2020	17:47	11.20.2020	17:47		
	Analyzed:	11.21.2020 (04:00	11.21.2020	04:05		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Chloride		10.9	10.0	11.9	10.0		
TPH by SW8015 Mod	Extracted:	11.21.2020	16:00	11.21.2020	16:00		
	Analyzed:	11.21.2020 2	22:21	11.21.2020	22:41		
	Units/RL:	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.8	49.8		
Diesel Range Organics (DRO)		<49.8	49.8	<49.8	49.8		
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.8	49.8		
Total TPH		<49.80	49.80	<49.80	49.80		

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Vramer



Analytical Report 678647

for

WPX Energy Permian Basin, LLC

Project Manager: Lynda Laumbach

North Brushy Draw 35-04 H

11.25.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



11.25.2020

Project Manager: Lynda Laumbach WPX Energy Permian Basin, LLC 5315 Buena Vista Dr. Carlsbad, NM 88220

Reference: Eurofins Xenco, LLC Report No(s): 678647

North Brushy Draw 35-04 H

Project Address: Eddy County, New Mexico

Lynda Laumbach:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 678647. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 678647 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
DS01	S	11.20.2020 10:00	0.5 ft	678647-001
DS01 A	S	11.20.2020 10:15	1 ft	678647-002
DS02	S	11.20.2020 10:30	0.5 ft	678647-003
DS02 A	S	11.20.2020 10:40	1 ft	678647-004
DS03	S	11.20.2020 10:50	0.5 ft	678647-005
DS03 A	S	11.20.2020 11:10	1 ft	678647-006
DS04	S	11.20.2020 11:30	0.5 ft	678647-007
DS04 A	S	11.20.2020 11:40	1 ft	678647-008

Xenco

CASE NARRATIVE

Client Name: WPX Energy Permian Basin, LLC

Project Name: North Brushy Draw 35-04 H

Project ID: Report Date: 11.25.2020 Work Order Number(s): 678647 Date Received: 11.20.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: **DS01** Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-001 Date Collected: 11.20.2020 10:00 Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3143163

Date Prep: 11.23.2020 07:52

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Prep Method: E300P

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	128	9.98	mg/kg	11.23.2020 11:21		1

Analytical Method: TPH by SW8015 Mod

Tech: MAB

Analyst: CAC Date Prep: 11.21.2020 16:00

% Moisture:

Basis: Wet Weight

Seq Number: 3143020

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	11.21.2020 19:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	11.21.2020 19:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	11.21.2020 19:39	U	1
Total TPH	PHC635	<50.20	50.20		mg/kg	11.21.2020 19:39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	111	%	70-135	11.21.2020 19:39		
o-Terphenyl		84-15-1	107	%	70-135	11.21.2020 19:39		

Wet Weight

Xenco

Environment Testing

Certificate of Analytical Results 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: **DS01** Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-001 Date Collected: 11.20.2020 10:00 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 11.21.2020 17:01 % Moisture: Basis:

Seq Number: 3143103

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199	mg/kg	11.22.2020 04:14	U	1
Toluene	108-88-3	< 0.00199	0.00199	mg/kg	11.22.2020 04:14	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	mg/kg	11.22.2020 04:14	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	mg/kg	11.22.2020 04:14	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	mg/kg	11.22.2020 04:14	U	1
Total Xylenes	1330-20-7	< 0.001990	0.001990	mg/kg	11.22.2020 04:14	U	1
Total BTEX		< 0.001990	0.001990	mg/kg	11.22.2020 04:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.22.2020 04:14	
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.22.2020 04:14	

Certificate of Analytical Results 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: **DS01 A** Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-002 Date Collected: 11.20.2020 10:15 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300

MAB Tech:

MAB Analyst:

Seq Number: 3143163

11.23.2020 07:52

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	63.6	9.96	mg/kg	11.23.2020 11:26		1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Tech: MAB

CACAnalyst:

Seq Number: 3143020

Date Prep: 11.21.2020 16:00

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	11.21.2020 20:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	11.21.2020 20:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	11.21.2020 20:39	U	1
Total TPH	PHC635	<49.90	49.90		mg/kg	11.21.2020 20:39	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	108	%	70-135	11.21.2020 20:39
o-Terphenyl	84-15-1	118	%	70-135	11.21.2020 20:39

Wet Weight

Certificate of Analytical Results 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: **DS01 A** Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-002 Date Collected: 11.20.2020 10:15 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 11.21.2020 17:01 % Moisture: Basis:

Seq Number: 3143103

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	11.22.2020 04:36	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	11.22.2020 04:36	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	11.22.2020 04:36	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	11.22.2020 04:36	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	11.22.2020 04:36	U	1
Total Xylenes	1330-20-7	< 0.001990	0.001990		mg/kg	11.22.2020 04:36	U	1
Total BTEX		< 0.001990	0.001990		mg/kg	11.22.2020 04:36	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	11.22.2020 04:36		
4-Bromofluorobenzene		460-00-4	118	%	70-130	11.22.2020 04:36		



Certificate of Analytical Results 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: **DS02** Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-003 Date Collected: 11.20.2020 10:30 Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

MAB Tech:

MAB Analyst:

Seq Number: 3143163

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	66.4	9.98	mg/kg	11.23.2020 11:31		1

Date Prep:

Analytical Method: TPH by SW8015 Mod

Tech: MAB

CAC Analyst: Seq Number: 3143020

Date Prep:

11.21.2020 16:00

11.23.2020 07:52

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	11.21.2020 21:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	11.21.2020 21:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	11.21.2020 21:00	U	1
Total TPH	PHC635	< 50.10	50.10		mg/kg	11.21.2020 21:00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Wet Weight

Certificate of Analytical Results 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: DS02 Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-003 Date Collected: 11.20.2020 10:30 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 11.21.2020 17:01 % Moisture: Basis:

Seq Number: 3143103

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201	mg/kg	11.22.2020 04:59	U	1
Toluene	108-88-3	< 0.00201	0.00201	mg/kg	11.22.2020 04:59	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201	mg/kg	11.22.2020 04:59	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402	mg/kg	11.22.2020 04:59	U	1
o-Xylene	95-47-6	< 0.00201	0.00201	mg/kg	11.22.2020 04:59	U	1
Total Xylenes	1330-20-7	< 0.002010	0.002010	mg/kg	11.22.2020 04:59	U	1
Total BTEX		< 0.002010	0.002010	mg/kg	11.22.2020 04:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.22.2020 04:59	
1,4-Difluorobenzene	540-36-3	103	%	70-130	11.22.2020 04:59	

Certificate of Analytical Results 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: **DS02 A** Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-004 Date Collected: 11.20.2020 10:40 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Seq Number: 3142929

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.4	9.98	mg/kg	11.21.2020 03:23		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.21.2020 16:00 % Moisture:

Basis: Wet Weight

Seq Number: 3143020

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	11.21.2020 21:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	11.21.2020 21:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	11.21.2020 21:20	U	1
Total TPH	PHC635	<49.80	49.80		mg/kg	11.21.2020 21:20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	113	%	70-135	11.21.2020 21:20
o-Terphenyl	84-15-1	103	%	70-135	11.21.2020 21:20

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: DS02 A Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-004 Date Collected: 11.20.2020 10:40 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 11.21.2020 17:04 % Moisture:

Seq Number: 3142998

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	11.22.2020 09:08	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	11.22.2020 09:08	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	11.22.2020 09:08	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	11.22.2020 09:08	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	11.22.2020 09:08	U	1
Total Xylenes	1330-20-7	< 0.001990	0.001990		mg/kg	11.22.2020 09:08	U	1
Total BTEX		< 0.001990	0.001990		mg/kg	11.22.2020 09:08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	120	%	70-130	11.22.2020 09:08		
1,4-Difluorobenzene		540-36-3	101	%	70-130	11.22.2020 09:08		

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: **DS03** Matrix: Soil Date Received:11.20.2020 14:35

Date Prep:

Date Prep:

Lab Sample Id: 678647-005 Date Collected: 11.20.2020 10:50 Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

MAB Tech:

MAB Analyst:

Seq Number: 3142929

Prep Method: E300P

11.20.2020 17:47

11.21.2020 16:00

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.0	9.92	mg/kg	11.21.2020 03:39		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

CACAnalyst:

Seq Number: 3143020

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	11.21.2020 21:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	11.21.2020 21:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	11.21.2020 21:41	U	1
Total TPH	PHC635	<49.90	49.90		mg/kg	11.21.2020 21:41	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	99	%	70-135	11.21.2020 21:41
o-Terphenyl	84-15-1	111	%	70-135	11.21.2020 21:41

Wet Weight

eurofins Environment Testing Xenco

Certificate of Analytical Results 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: DS03 Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-005 Date Collected: 11.20.2020 10:50 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 11.21.2020 17:04 % Moisture: Basis:

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	11.22.2020 09:30	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	11.22.2020 09:30	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	11.22.2020 09:30	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	11.22.2020 09:30	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	11.22.2020 09:30	U	1
Total Xylenes	1330-20-7	< 0.002010	0.002010		mg/kg	11.22.2020 09:30	U	1
Total BTEX		< 0.002010	0.002010		mg/kg	11.22.2020 09:30	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	116	%	70-130	11.22.2020 09:30		
1,4-Difluorobenzene		540-36-3	101	%	70-130	11.22.2020 09:30		

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: DS03 A Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-006 Date Collected: 11.20.2020 11:10 Sample Depth: 1 ft

ic Anions by EPA 300 Prep Method: E300P

Analytical Method: Inorganic Anions by EPA 300

Tech: MAB

Seq Number: 3142929

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	27.1	9.98	mg/kg	11.21.2020 03:54		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.21.2020 16:00 % Moisture:

Seq Number: 3143020

Basis: Wet Weight

Cas Number Result RL**Parameter** Units **Analysis Date** Flag Dil Gasoline Range Hydrocarbons (GRO) PHC610 50.1 U < 50.1 11.21.2020 22:01 mg/kg Diesel Range Organics (DRO) C10C28DRO 50.1 11.21.2020 22:01 U < 50.1 mg/kg 1 Motor Oil Range Hydrocarbons (MRO) 11.21.2020 22:01 PHCG2835 < 50.1 50.1 mg/kg U 1 Total TPH mg/kg PHC635 < 50.10 50.10 11.21.2020 22:01 U Flag

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	111	%	70-135	11.21.2020 22:01
o-Terphenyl	84-15-1	115	%	70-135	11.21.2020 22:01

Wet Weight

Certificate of Analytical Results 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: DS03 A Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-006 Date Collected: 11.20.2020 11:10 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 11.21.2020 17:04 % Moisture: Basis:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	11.22.2020 09:52	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	11.22.2020 09:52	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	11.22.2020 09:52	U	1
m,p-Xylenes	179601-23-1	< 0.00403	0.00403		mg/kg	11.22.2020 09:52	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	11.22.2020 09:52	U	1
Total Xylenes	1330-20-7	< 0.002020	0.002020		mg/kg	11.22.2020 09:52	U	1
Total BTEX		< 0.002020	0.002020		mg/kg	11.22.2020 09:52	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	11.22.2020 09:52	
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.22.2020 09:52	

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: **DS04** Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-007 Date Collected: 11.20.2020 11:30 Sample Depth: 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3142929

Date Prep: 11.20.2020 17:47

% Moisture:

Basis: Wet Weight

Wet Weight

Flag

Prep Method: E300P

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 10.9
 10.0
 mg/kg
 11.21.2020 04:00
 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Date Prep: 11.21.2020 16:00

Moisture: Basis:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.21.2020 22:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.21.2020 22:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.21.2020 22:21	U	1
Total TPH	PHC635	<49.80	49.80	mg/kg	11.21.2020 22:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	106	%	70-135	11.21.2020 22:21
o-Terphenyl	84-15-1	99	%	70-135	11.21.2020 22:21

Wet Weight



Certificate of Analytical Results 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: DS04 Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-007 Date Collected: 11.20.2020 11:30 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 11.21.2020 17:04 % Moisture: Basis:

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.22.2020 10:15	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.22.2020 10:15	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.22.2020 10:15	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	11.22.2020 10:15	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.22.2020 10:15	U	1
Total Xylenes	1330-20-7	< 0.002000	0.002000		mg/kg	11.22.2020 10:15	U	1
Total BTEX		< 0.002000	0.002000		mg/kg	11.22.2020 10:15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	112	%	70-130	11.22.2020 10:15		
1,4-Difluorobenzene		540-36-3	103	%	70-130	11.22.2020 10:15		



WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: DS04 A Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-008 Date Collected: 11.20.2020 11:40 Sample Depth: 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: MAB

Analyst: MAB

Seq Number: 3142929

Date Prep: 11.20.2020 17:47

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.9	10.0	mg/kg	11.21.2020 04:05		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB

Analyst: CAC Seq Number: 3143020

CAC Date Prep: 11.21.2020 16:00 % Mo

% Moisture:

Basis: Wet Weight

Cas Number Result RLFlag **Parameter** Units **Analysis Date** Dil Gasoline Range Hydrocarbons (GRO) PHC610 U <49.8 49.8 11.21.2020 22:41 mg/kg Diesel Range Organics (DRO) C10C28DRO <49.8 49.8 11.21.2020 22:41 U mg/kg 1 Motor Oil Range Hydrocarbons (MRO) 11.21.2020 22:41 PHCG2835 <49.8 49.8 mg/kg U 1 Total TPH mg/kg PHC635 <49.80 49.80 11.21.2020 22:41 U Flag

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	109	%	70-135	11.21.2020 22:41
o-Terphenyl	84-15-1	107	%	70-135	11.21.2020 22:41

Wet Weight

Certificate of Analytical Results 678647

WPX Energy Permian Basin, LLC, Carlsbad, NM

North Brushy Draw 35-04 H

Sample Id: DS04 A Matrix: Soil Date Received:11.20.2020 14:35

Lab Sample Id: 678647-008 Date Collected: 11.20.2020 11:40 Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 11.21.2020 17:04 % Moisture: Basis:

Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	
Seq Number:	3142998							

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.22.2020 10:37	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.22.2020 10:37	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.22.2020 10:37	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	11.22.2020 10:37	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.22.2020 10:37	U	1
Total Xylenes	1330-20-7	< 0.002000	0.002000		mg/kg	11.22.2020 10:37	U	1
Total BTEX		< 0.002000	0.002000		mg/kg	11.22.2020 10:37	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	107	%	70-130	11.22.2020 10:37		
4-Bromofluorobenzene		460-00-4	120	%	70-130	11.22.2020 10:37		



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

WPX Energy Permian Basin, LLC

North Brushy Draw 35-04 H

E300P Analytical Method: Inorganic Anions by EPA 300 Prep Method: Seg Number: 3142929 Matrix: Solid Date Prep: 11.20.2020 LCS Sample Id: 7715683-1-BKS LCSD Sample Id: 7715683-1-BSD MB Sample Id: 7715683-1-BLK RPD MB Spike LCS LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Chloride <10.0 250 252 101 254 90-110 20 11.21.2020 02:01 102 1 mg/kg Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P Seq Number: 3143163 Matrix: Solid Date Prep: 11.23.2020 7715704-1-BLK LCS Sample Id: 7715704-1-BKS LCSD Sample Id: 7715704-1-BSD MB Sample Id: MB Spike LCS LCS LCSD LCSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result 20 11.23.2020 09:01 Chloride <10.0 250 247 99 244 98 90-110 mg/kg E300P Analytical Method: Inorganic Anions by EPA 300 Prep Method: Seq Number: 3142929 Matrix: Soil Date Prep: 11.20.2020 MS Sample Id: 678622-001 S MSD Sample Id: 678622-001 SD Parent Sample Id: 678622-001 Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limite Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride <9.98 105 20 11.21.2020 02:16 200 209 201 101 90-110 4 mg/kg E300P Analytical Method: Inorganic Anions by EPA 300 Prep Method: 3142929 Matrix: Soil Seq Number: Date Prep: 11.20.2020 Parent Sample Id: 678647-004 MS Sample Id: 678647-004 S MSD Sample Id: 678647-004 SD RPD Parent Spike MS MS MSD MSD Limits %RPD Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec %Rec Result 11.21.2020 03:29 30.4 99 20 Chloride 200 229 99 229 90-110 0 mg/kg E300P **Analytical Method: Inorganic Anions by EPA 300** Prep Method: 3143163 Seq Number: Matrix: Soil Date Prep: 11.23.2020 Parent Sample Id: 678616-015 MS Sample Id: 678616-015 S MSD Sample Id: 678616-015 SD Parent Spike MS MS Limits %RPD RPD Units Analysis MSD MSD Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec

Analytical Method:	Inorganic Anions by EPA 300
---------------------------	-----------------------------

Prep Method: 3143163 Seq Number: Matrix: Soil Date Prep: 11.23.2020 MS Sample Id: 678642-002 S MSD Sample Id: 678642-002 SD Parent Sample Id: 678642-002

100

291

103

90-110

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	9430	198	9640	106	9630	99	90-110	0	20	mg/kg	11.23.2020 10:29	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

Chloride

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

85.6

199

284

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

11.23.2020 09:17

20

mg/kg

E300P

2

Flag

Flag

Flag

QC Summary 678647

WPX Energy Permian Basin, LLC

North Brushy Draw 35-04 H

Analytical Method: TPH by SW8015 Mod Seq Number: 3143020 Matrix: Solid

LCS Sample Id: 7715747-1-BKS MB Sample Id: 7715747-1-BLK

SW8015P Prep Method:

Date Prep: 11.21.2020

7715747-1-BSD

LCSD Sample Id:

RPD MB Spike LCS LCS Limits %RPD Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) 1000 1180 35 11.21.2020 18:58 < 50.0 118 1210 70-135 3 121 mg/kg 11.21.2020 18:58 Diesel Range Organics (DRO) 1000 1060 106 1120 70-135 6 35 mg/kg < 50.0 112

MB MB LCS LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 11.21.2020 18:58 1-Chlorooctane 130 114 110 70-135 % 11.21.2020 18:58 o-Terphenyl 130 111 116 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method: 11.21.2020

3143020 Seq Number: Matrix: Solid Date Prep:

MB Sample Id: 7715747-1-BLK

MB Units Analysis Flag **Parameter** Result Date 11.21.2020 18:38 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P 3143020 Seq Number: Matrix: Soil Date Prep: 11.21.2020 Parent Sample Id: 678647-001 MS Sample Id: 678647-001 S MSD Sample Id: 678647-001 SD

Parent Spike MS MS %RPD RPD MSD MSD Limits Units Analysis **Parameter** Result Limit Amount Result %Rec Result %Rec Date 11.21.2020 19:59 Gasoline Range Hydrocarbons (GRO) < 50.0 1000 1070 107 1130 70-135 5 35 mg/kg 113 11.21.2020 19:59 Diesel Range Organics (DRO) < 50.0 1000 1040 104 996 100 70-135 4 35 mg/kg

MS MS **MSD** Units **MSD** Limits Analysis Surrogate %Rec Flag Flag Date %Rec 11.21.2020 19:59 119 1-Chlorooctane 111 70 - 135% 11.21.2020 19:59 109 o-Terphenyl 109 70-135 %

SW5035A Analytical Method: BTEX by EPA 8021B Prep Method: 3143103 Seq Number: Matrix: Solid Date Prep: 11.21.2020

7715708-1-BLK LCS Sample Id: 7715708-1-BKS LCSD Sample Id: 7715708-1-BSD MB Sample Id:

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.106	106	0.0977	98	70-130	8	35	mg/kg	11.21.2020 18:51
Toluene	< 0.00200	0.100	0.0971	97	0.0905	91	70-130	7	35	mg/kg	11.21.2020 18:51
Ethylbenzene	< 0.00200	0.100	0.100	100	0.0945	95	71-129	6	35	mg/kg	11.21.2020 18:51
m,p-Xylenes	< 0.00400	0.200	0.205	103	0.195	98	70-135	5	35	mg/kg	11.21.2020 18:51
o-Xylene	< 0.00200	0.100	0.100	100	0.0963	96	71-133	4	35	mg/kg	11.21.2020 18:51

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	115		103		100		70-130	%	11.21.2020 18:51
4-Bromofluorobenzene	119		106		107		70-130	%	11.21.2020 18:51

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

E = MSD/LCSD Result

B = Spike AddedD = MSD/LCSD % Rec

MS = Matrix Spike

Flag

4-Bromofluorobenzene

QC Summary 678647

WPX Energy Permian Basin, LLC

North Brushy Draw 35-04 H

SW5035A Analytical Method: BTEX by EPA 8021B Prep Method: 11.21.2020 Seq Number: 3142998 Matrix: Solid Date Prep: LCS Sample Id: 7715709-1-BKS MB Sample Id: 7715709-1-BLK LCSD Sample Id: 7715709-1-BSD

-												
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0974	97	0.0977	98	70-130	0	35	mg/kg	11.22.2020 07:03	
Toluene	< 0.00200	0.100	0.0908	91	0.0909	91	70-130	0	35	mg/kg	11.22.2020 07:03	
Ethylbenzene	< 0.00200	0.100	0.0943	94	0.0937	94	71-129	1	35	mg/kg	11.22.2020 07:03	
m,p-Xylenes	< 0.00400	0.200	0.193	97	0.192	96	70-135	1	35	mg/kg	11.22.2020 07:03	
o-Xylene	< 0.00200	0.100	0.0960	96	0.0963	96	71-133	0	35	mg/kg	11.22.2020 07:03	
Surrogate	MB %Rec	MB Flag	Lo %I		LCS Flag	LCSD %Rec			imits	Units	Analysis Date	
1,4-Difluorobenzene	103		9	7		100		70	-130	%	11.22.2020 07:03	
4-Bromofluorobenzene	115		10	08		109		70	-130	%	11.22.2020 07:03	

Analytical Method: BTEX by EPA 8021B SW5035A Prep Method:

Seq Number: 3143103 Matrix: Soil Date Prep: 11.21.2020 MS Sample Id: 678616-015 S MSD Sample Id: 678616-015 SD Parent Sample Id: 678616-015

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	1
Benzene	< 0.00200	0.100	0.0917	92	0.0822	82	70-130	11	35	mg/kg	11.21.2020 19:36	
Toluene	< 0.00200	0.100	0.0860	86	0.0721	72	70-130	18	35	mg/kg	11.21.2020 19:36	
Ethylbenzene	< 0.00200	0.100	0.0861	86	0.0792	79	71-129	8	35	mg/kg	11.21.2020 19:36	
m,p-Xylenes	< 0.00400	0.200	0.176	88	0.139	70	70-135	23	35	mg/kg	11.21.2020 19:36	
o-Xylene	< 0.00200	0.100	0.0864	86	0.0709	71	71-133	20	35	mg/kg	11.21.2020 19:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	95		100		70-130	%	11.21.2020 19:36
4-Bromofluorobenzene	102		111		70-130	%	11.21.2020 19:36

Prep Method: SW5035A Analytical Method: BTEX by EPA 8021B Seq Number: 3142998 Matrix: Soil Date Prep: 11.21.2020

MS Sample Id: 678647-004 S MSD Sample Id: 678647-004 SD Parent Sample Id: 678647-004

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0841	84	0.0828	83	70-130	2	35	mg/kg	11.22.2020 07:48	
Toluene	< 0.00200	0.100	0.0786	79	0.0768	77	70-130	2	35	mg/kg	11.22.2020 07:48	
Ethylbenzene	< 0.00200	0.100	0.0813	81	0.0766	77	71-129	6	35	mg/kg	11.22.2020 07:48	
m,p-Xylenes	< 0.00401	0.200	0.163	82	0.159	79	70-135	2	35	mg/kg	11.22.2020 07:48	
o-Xylene	< 0.00200	0.100	0.0823	82	0.0809	81	71-133	2	35	mg/kg	11.22.2020 07:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		97		70-130	%	11.22.2020 07:48
4-Bromofluorobenzene	106		104		70-130	%	11.22.2020 07:48

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec



City, State ZIP:

Carlsbad, NM 88220 5315 Buena Vista Dr WPX Enery Permian, LLC.

City, State ZIP:

Carlsbad, NM 88220 5315 Buena Vista Dr WPX Energy Permian, LLC.

Address:

Company Name: Bill to: (if different)

Lynda Laumbach

Atlanta, GA (770) 449-8800

(575)725-1647

Company Name: Project Manager:

Lynda Laumbach

Chain of Custody

Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296

Work Order No: 67 8647

		6		
		4 2	20.20 4.35	
Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
	d terms and conditions nces beyond the control riously negotiated.	milates and subcontractors. It assigns standard y the client if such losses are due to circumsta y the client if such losses are due to circumsta yzed. These terms will be enforced unless prev	es or expenses incurred betted to Xenco, but not anal	Xence. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xence, but not analyzed. These terms will be enforced unless previously negotiated. Relinguished have Compatitude.
Hg: 1631 / 245.1 / 7470 / 7471		CI CO CU PB MIN MO NI SE AG TI U		lotice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Vernand t
Sn U V Zn	Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	Cd Ca Cr Co	Sh As Ba Ba	analyzed TCLP / SPLP 6010: 8RCRA
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Sample Comments	Sa		Ch BT	Sampled Sampled Depth Comp
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Zn Acetate+NaOH: Zn	Zn Aceta		Me	Θ.
Na ₂ S ₂ O ₃ : NaSO ₃	Na ₂ S ₂ O ₃		(EP	Seals: Yes (No) N/A Temperature Reading: 5.9
NaHSO ₄ : NABIS	NaHSO		d 80	Yes (No N/A Correction Factor:
퓨	H ₃ PO ₄ : HP		00. 021	Yes No Thermometer ID:
H ₂ NaOH: Na	H ₂ SO ₄ : H ₂	005	00)	CEIPT Temp Blank: (Yes) No Wet Ice: Yes No
	нсг: нс)	S	the lab, if received by 4:30pm
ool MeOH: Me	Cool: Cool			ler's Name: Victoria winn
NO DI Water: H ₂ O	None: NO		Code	
Preservative Codes		ANAL TSIS REQUEST	Pres.	
		ANALYSIS DECLIE		Turn Around
Other:	Deliverables: EDD		ch@wpxenergy.com	
1	The state of the s			

Revised Date 05012020 Rev. 2020.1

RP

Level IV

State of Project:

Program: UST/PST PRP rownfields RC

Sperfund

www.xenco.com Page **Work Order Comments**

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Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WPX Energy Permian Basin, LLC

Date/ Time Received: 11.20.2020 02.35.00 PM

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Work Order #: 678647 Temperature Measuring device used : T_NM_007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		5	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping conta	iner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	•	Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquis	hed/ received?	Yes	
#10 Chain of Custody agrees with sample I	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk containers.
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	pace?	N/A	

^{*} Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Checklist completed by:

Cloe Clifton

Checklist reviewed by:

Date: 11.20.2020

Date: 11.23.2020

Date: 11.23.2020

PH Device/Lot#:

Analyst:



Certificate of Analysis Summary 669618

LT Environmental, Inc., Arvada, CO

Project Name: North Brushy Draw 35-4

Project Id:

Project Location:

034820029

Eddy County

Joseph Hernandez **Contact:**

Date Received in Lab: Mon 08.10.2020 11:37

Report Date: 08.14.2020 20:45

Project Manager: Jessica Kramer

Lab Id:	669618-0	001	669618-0	02	669618-0	003	669618-0	004	669618-0	005	669618-0	006
Field Id:	BH01		BH01A	A	BH02		BH02A		BH03		BH03A	
Depth:	0.1-0.3	ft	0.3-0.5 1	0.3-0.5 ft		0.2-0.5 ft		t	0.2-0.5	ft	0.5-1 ft	t
Matrix:	SOIL		SOIL		SOIL	,	SOIL	,	SOIL		SOIL	
Sampled:	08.07.2020	08:50	08.07.2020	08:55	08.07.2020	09:20	08.07.2020	11:10	08.07.2020	09:40	08.07.2020	09:50
Extracted:	08.12.2020	12:19	08.12.2020	12:19	08.12.2020	12:19	08.12.2020	12:19	08.12.2020	12:19	08.12.2020	12:19
Analyzed:	08.12.2020	16:33	08.12.2020	17:55	08.12.2020	18:15	08.12.2020	16:54	08.12.2020	17:14	08.12.2020	17:35
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
	< 0.00200	0.00200	< 0.00500	0.00500	< 0.00250	0.00250	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
	< 0.00200	0.00200	< 0.00500	0.00500	< 0.00250	0.00250	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
	< 0.00200	0.00200	< 0.0200	0.0200	0.0981	0.0100	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
p-Xylenes												0.00401
o-Xylene		0.00200	< 0.0200	0.0200	0.236	0.0100	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Xylenes												0.00200
	< 0.00200	0.00200	< 0.00500	0.00500	0.377	0.00250	< 0.00200	0.00200	< 0.00202	0.00202	< 0.00200	0.00200
Extracted:	08.12.2020	12:34	08.12.2020 12:34		08.12.2020 12:34		08.12.2020 12:34		08.12.2020 12:34		08.12.2020 12:34	
Analyzed:	08.12.2020	14:37	08.12.2020	14:54	08.12.2020 15:00		08.12.2020 15:05		08.12.2020	15:11	08.12.2020	15:28
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
	116	9.98	33.6	9.96	5400	49.6	5630	49.6	43.4	9.98	54.6	10.0
Extracted:	08.11.2020	17:20	08.11.2020	17:20	08.11.2020	17:20	08.10.2020 15:15		08.10.2020	15:15	08.10.2020	15:15
Analyzed:	08.12.2020	03:59	08.12.2020	04:20	08.12.2020	04:40	08.10.2020	22:14	08.10.2020	22:34	08.10.2020	22:54
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
	<250	250	<249	249	<251	251	<49.8	49.8	< 50.1	50.1	< 50.2	50.2
	9780	250	9740	249	2900	251	81.6	49.8	<50.1	50.1	< 50.2	50.2
	1080	250	938	249	399	251	<49.8	49.8	< 50.1	50.1	< 50.2	50.2
	10900	250	10700	249	3300	251	81.6	49.8	< 50.1	50.1	< 50.2	50.2
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL:	Field Id: Depth: 0.1-0.3 Matrix: SOIL Sampled: 08.07.2020 Extracted: 08.12.2020 Analyzed: 08.12.2020	Field Id: BH01 Depth: 0.1-0.3 ft Matrix: SOIL Sampled: 08.07.2020 08:50 Extracted: 08.12.2020 12:19 Analyzed: 08.12.2020 16:33 Units/RL: mg/kg RL <0.00200	Field Id: BH01 BH01A Depth: 0.1-0.3 ft 0.3-0.5 ft Matrix: SOIL SOIL Sampled: 08.07.2020 08:50 08.07.2020 0 Extracted: 08.12.2020 12:19 08.12.2020 0 Analyzed: 08.12.2020 16:33 08.12.2020 Units/RL: mg/kg RL mg/kg Vo.00200 0.00200 <0.00500	Field Id: BH01 BH01A BH01A Depth: 0.1-0.3 ft 0.3-0.5 ft SOIL Sampled: 08.07.2020 08:50 08.07.2020 08:55 SOIL SOIL Extracted: 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 17:55 Units/RL: mg/kg RL mg/kg RL <0.00200 0.00200 <0.00500 0.00500 <0.00200 0.00200 <0.00500 0.00500 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00500 0.00500 <0.00200 0.00200 <0.00500 0.00500 <0.00200 0.00200 <0.00500 0.00500 <0.00200 0.00200 <0.00500 0.00500 <0.00201 0.00200 <0.00500 0.00500 <0.00201	Field Id: BH01 BH01A BH02 Depth: 0.1-0.3 ft 0.3-0.5 ft 0.2-0.5 Matrix: SOIL SOIL SOIL SOIL Sampled: 08.07.2020 08:50 08.07.2020 08:55 08.07.2020 Extracted: 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 17:55 08.12.2020 Analyzed: 08.12.2020 16:33 08.12.2020 17:55 08.12.2020 08.12.2020 Units/RL: mg/kg RL mg/kg RL mg/kg < 0.00200	Field Id: BH01 BH01A BH02 Depth: 0.1-0.3 ft 0.3-0.5 ft 0.2-0.5 ft Matrix: SOIL SOIL SOIL Sampled: 08.07.2020 08:50 08.07.2020 12:19 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 18:15 Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL <0.00200 0.00200 <0.00500 0.00500 <0.00250 <0.00250 <0.00200 0.00200 <0.00500 0.00500 <0.00250 <0.00250 <0.00200 0.00200 <0.00500 0.00500 <0.00250 <0.00250 <0.00200 0.00200 <0.00500 0.00500 <0.00250 <0.00250 <0.00200 0.00200 <0.00200 <0.00200 0.0200 <0.0020 <0.00200 0.00200 <0.00200 <0.00200 <0.00200 <0.00200 <0.00200 0.00200 <0.00500 0.00500 <t< th=""><th>Field Id: BH01 BH01A BH02 BH02A Depth: 0.1-0.3 ft 0.3-0.5 ft 0.2-0.5 ft 2-2.5 ft Matrix: SOIL SOIL SOIL SOIL Sampled: 08.07.2020 08:50 08.07.2020 08:55 08.07.2020 09:20 08.07.2020 Extracted: 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 18:15 08.12.2020 Units/RL: mg/kg RL mg/kg RL</th><th>Field Id: BH01</th><th>Field Id: BH01 − 0.1-0.3 ft BH01 − 0.3-0.5 ft 0.2-0.5 ft 0.2-0.5 ft 2-2.5 ft 0.2-0.5 ft 0.02-0.5 ft 0.020 ft 0.0020 0.00200 0.00200 0.00200 loss 0.0020</th><th>Field Id: BHO1. BHO1.A BHO2. BHO2.A BHO3. BHO3. Depth: 0.1-0.3 ft 0.3-0.5 ft 0.2-0.5 ft 2-2.5 ft 0.2-0.5 ft 0.2-0.5 ft Matrix: SOIL. SOIL. SOIL. SOIL. SOIL. SOIL. Sampled: 0.8.07.2020 08:50 08.07.2020 08:55 08.07.2020 12:19 08.12.2020 12:19</th><th>Field Id: BH01 BH01 BH02 BH02 BH02 BH03 SOIL mg/8 BH03 SOIL SOIL</th></t<>	Field Id: BH01 BH01A BH02 BH02A Depth: 0.1-0.3 ft 0.3-0.5 ft 0.2-0.5 ft 2-2.5 ft Matrix: SOIL SOIL SOIL SOIL Sampled: 08.07.2020 08:50 08.07.2020 08:55 08.07.2020 09:20 08.07.2020 Extracted: 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 12:19 08.12.2020 18:15 08.12.2020 Units/RL: mg/kg RL mg/kg RL	Field Id: BH01	Field Id: BH01 − 0.1-0.3 ft BH01 − 0.3-0.5 ft 0.2-0.5 ft 0.2-0.5 ft 2-2.5 ft 0.2-0.5 ft 0.02-0.5 ft 0.020 ft 0.0020 0.00200 0.00200 0.00200 loss 0.0020	Field Id: BHO1. BHO1.A BHO2. BHO2.A BHO3. BHO3. Depth: 0.1-0.3 ft 0.3-0.5 ft 0.2-0.5 ft 2-2.5 ft 0.2-0.5 ft 0.2-0.5 ft Matrix: SOIL. SOIL. SOIL. SOIL. SOIL. SOIL. Sampled: 0.8.07.2020 08:50 08.07.2020 08:55 08.07.2020 12:19 08.12.2020 12:19	Field Id: BH01 BH01 BH02 BH02 BH02 BH03 SOIL mg/8 BH03 SOIL SOIL

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer

Analytical Report 669618

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

North Brushy Draw 35-4 034820029 08.14.2020

Collected By: Anna Byers

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.14.2020

Project Manager: Joseph Hernandez LT Environmental, Inc. 4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 669618

North Brushy Draw 35-4
Project Address: Eddy County

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669618. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669618 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 669618

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH01	S	08.07.2020 08:50	0.1 - 0.3 ft	669618-001
BH01A	S	08.07.2020 08:55	0.3 - 0.5 ft	669618-002
BH02	S	08.07.2020 09:20	0.2 - 0.5 ft	669618-003
BH02A	S	08.07.2020 11:10	2 - 2.5 ft	669618-004
BH03	S	08.07.2020 09:40	0.2 - 0.5 ft	669618-005
BH03A	S	08.07.2020 09:50	0.5 - 1 ft	669618-006

Xenco

Environment Testing

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029
 Report Date:
 08.14.2020

 Work Order Number(s):
 669618
 Date Received:
 08.10.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3134273 TPH by SW8015 Mod

Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by

re-analysis.

Samples affected are: 669618-002.

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: **BH01** Matrix: Soil Date Received:08.10.2020 11:37

Lab Sample Id: 669618-001 Date Collected: 08.07.2020 08:50 Sample Depth: 0.1 - 0.3 ft

Prep Method: E300P

% Moisture:

Date Prep: 08.12.2020 12:34

Basis: Wet Weight

Seq Number: 3134397

Tech:

Analyst:

CAC

MAB

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	116	9 98	mo/ko	08 12 2020 14:37		1

Analytical Method: TPH by SW8015 Mod

DTH

Analytical Method: Inorganic Anions by EPA 300

Prep Method: SW8015P

% Moisture:

 DTH Tech:

Analyst:

Date Prep: 08.11.2020 17:20

Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<250	250		mg/kg	08.12.2020 03:59	U	5
Diesel Range Organics (DRO)	C10C28DRO	9780	250		mg/kg	08.12.2020 03:59		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	1080	250		mg/kg	08.12.2020 03:59		5
Total TPH	PHC635	10900	250		mg/kg	08.12.2020 03:59		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	105	%	70-135	08.12.2020 03:59		
o-Terphenyl		84-15-1	107	%	70-135	08.12.2020 03:59		

Wet Weight

Xenco

Certificate of Analytical Results 669618

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH01 Matrix: Soil Date Received:08.10.2020 11:37

Lab Sample Id: 669618-001 Date Collected: 08.07.2020 08:50 Sample Depth: 0.1 - 0.3 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: CAC % Moisture:

Analyst: MAB Date Prep: 08.12.2020 12:19 Basis: Seq Number: 3134380

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	08.12.2020 16:33	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	08.12.2020 16:33	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	08.12.2020 16:33	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401	mg/kg	08.12.2020 16:33	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	08.12.2020 16:33	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	08.12.2020 16:33	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	08.12.2020 16:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	93	%	70-130	08.12.2020 16:33	
4-Bromofluorobenzene	460-00-4	95	%	70-130	08.12.2020 16:33	

Xenco

Environment Testing

Certificate of Analytical Results 669618

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH01A Matrix: Soil Date Received:08.10.2020 11:37

Lab Sample Id: 669618-002 Date Collected: 08.07.2020 08:55 Sample Depth: 0.3 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: CAC % Moisture:

Analyst: MAB Date Prep: 08.12.2020 12:34 Basis: Wet Weight

Seq Number: 3134397

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 33.6
 9.96
 mg/kg
 08.12.2020 14:54
 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 08.11.2020 17:20 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<249	249		mg/kg	08.12.2020 04:20	U	5
Diesel Range Organics (DRO)	C10C28DRO	9740	249		mg/kg	08.12.2020 04:20		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	938	249		mg/kg	08.12.2020 04:20		5
Total TPH	PHC635	10700	249		mg/kg	08.12.2020 04:20		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	113	%	70-135	08.12.2020 04:20		
o-Terphenyl		84-15-1	138	%	70-135	08.12.2020 04:20	**	

Xenco

Certificate of Analytical Results 669618

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH01A Matrix: Soil Date Received:08.10.2020 11:37

Lab Sample Id: 669618-002 Date Collected: 08.07.2020 08:55 Sample Depth: 0.3 - 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: CAC % Moisture:

Analyst: MAB Date Prep: 08.12.2020 12:19 Basis: Wet Weight

Parameter	Cas Number	Result	\mathbf{RL}		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00500	0.00500		mg/kg	08.12.2020 17:55	U	1
Toluene	108-88-3	< 0.00500	0.00500		mg/kg	08.12.2020 17:55	U	1
Ethylbenzene	100-41-4	< 0.0200	0.0200		mg/kg	08.12.2020 17:55	U	1
m,p-Xylenes	179601-23-1	< 0.0400	0.0400		mg/kg	08.12.2020 17:55	U	1
o-Xylene	95-47-6	< 0.0200	0.0200		mg/kg	08.12.2020 17:55	U	1
Total Xylenes	1330-20-7	< 0.0200	0.0200		mg/kg	08.12.2020 17:55	U	1
Total BTEX		< 0.00500	0.00500		mg/kg	08.12.2020 17:55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4 Promofluorobanzana		460 00 4	07	0/-	70 120	09 12 2020 17:55		

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	08.12.2020 17:55	
1,4-Difluorobenzene	540-36-3	97	%	70-130	08.12.2020 17:55	

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Soil

Date Received:08.10.2020 11:37

Lab Sample Id: 669618-003 Date Collected: 08.07.2020 09:20 Sample Depth: 0.2 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300

BH02

MAB

Prep Method: E300P

Tech: CAC

Sample Id:

Analyst:

% Moisture:

Seq Number: 3134397

Date Prep: 08.12.2020 12:34 Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5400	49.6	mg/kg	08.12.2020 15:00		5

Matrix:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

 DTH

% Moisture:

Analyst: DTH

Tech:

Date Prep: 08.11.2020 17:20 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<251	251		mg/kg	08.12.2020 04:40	U	5
Diesel Range Organics (DRO)	C10C28DRO	2900	251		mg/kg	08.12.2020 04:40		5
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	399	251		mg/kg	08.12.2020 04:40		5
Total TPH	PHC635	3300	251		mg/kg	08.12.2020 04:40		5
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	116	%	70-135	08.12.2020 04:40		
o-Terphenyl		84-15-1	113	%	70-135	08.12.2020 04:40		

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Certificate of Analytical Results 669618

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH02 Matrix: Soil Date Received:08.10.2020 11:37

Lab Sample Id: 669618-003 Date Collected: 08.07.2020 09:20 Sample Depth: 0.2 - 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

CAC % Moisture:

Analyst: MAB Date Prep: 08.12.2020 12:19 Basis: Wet Weight

Seq Number: 3134380

Tech:

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00250	0.00250		mg/kg	08.12.2020 18:15	U	1
Toluene	108-88-3	< 0.00250	0.00250		mg/kg	08.12.2020 18:15	U	1
Ethylbenzene	100-41-4	0.0981	0.0100		mg/kg	08.12.2020 18:15		1
m,p-Xylenes	179601-23-1	0.0426	0.0200		mg/kg	08.12.2020 18:15		1
o-Xylene	95-47-6	0.236	0.0100		mg/kg	08.12.2020 18:15		1
Total Xylenes	1330-20-7	0.279	0.0100		mg/kg	08.12.2020 18:15		1
Total BTEX		0.377	0.00250		mg/kg	08.12.2020 18:15		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	102	%	70-130	08.12.2020 18:15		
1,4-Difluorobenzene		540-36-3	94	%	70-130	08.12.2020 18:15		



LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH02A Matrix: Soil Date Received:08.10.2020 11:37

Lab Sample Id: 669618-004 Date Collected: 08.07.2020 11:10 Sample Depth: 2 - 2.5 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

% Moisture:

Analyst: MAB Date Prep: 08.12.2020 12:34 Basis: Wet Weight

Seq Number: 3134397

CAC

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5630	49.6	mg/kg	08.12.2020 15:05		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 08.10.2020 15:15 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	08.10.2020 22:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	81.6	49.8		mg/kg	08.10.2020 22:14		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	08.10.2020 22:14	U	1
Total TPH	PHC635	81.6	49.8		mg/kg	08.10.2020 22:14		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	08.10.2020 22:14		
o-Terphenyl		84-15-1	99	%	70-135	08.10.2020 22:14		

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Certificate of Analytical Results 669618

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH02A Matrix: Soil Date Received:08.10.2020 11:37

Lab Sample Id: 669618-004 Date Collected: 08.07.2020 11:10 Sample Depth: 2 - 2.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: CAC % Moisture:

460-00-4

Analyst: MAB Date Prep: 08.12.2020 12:19 Basis: Wet Weight

Seq Number: 3134380

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	08.12.2020 16:54	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.12.2020 16:54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	96	%	70-130	08.12.2020 16:54		

108

%

70-130

08.12.2020 16:54



LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH03 Matrix: Soil Date Received:08.10.2020 11:37

Lab Sample Id: 669618-005 Date Collected: 08.07.2020 09:40 Sample Depth: 0.2 - 0.5 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: CAC % Moisture:

Analyst: MAB Date Prep: 08.12.2020 12:34 Basis: Wet Weight

Seq Number: 3134397

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 43.4
 9.98
 mg/kg
 08.12.2020 15:11
 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 08.10.2020 15:15 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	08.10.2020 22:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	08.10.2020 22:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	08.10.2020 22:34	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	08.10.2020 22:34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	08.10.2020 22:34	
o-Terphenyl	84-15-1	101	%	70-135	08.10.2020 22:34	

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LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH03 Matrix: Soil Date Received:08.10.2020 11:37

Lab Sample Id: 669618-005 Date Collected: 08.07.2020 09:40 Sample Depth: 0.2 - 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

% Moisture:

Analyst: MAB Date Prep: 08.12.2020 12:19 Basis: Wet Weight

540-36-3

Seq Number: 3134380

1,4-Difluorobenzene

Tech:

CAC

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	08.12.2020 17:14	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	08.12.2020 17:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	101	%	70-130	08.12.2020 17:14		

101

%

70-130

08.12.2020 17:14



LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH03A Matrix: Soil Date Received:08.10.2020 11:37

Lab Sample Id: 669618-006 Date Collected: 08.07.2020 09:50 Sample Depth: 0.5 - 1 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P

Tech: CAC % Moisture:

Analyst: MAB Date Prep: 08.12.2020 12:34 Basis: Wet Weight

Seq Number: 3134397

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	54.6	10.0	mg/kg	08.12.2020 15:28		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 08.10.2020 15:15 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	08.10.2020 22:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	08.10.2020 22:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	08.10.2020 22:54	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	08.10.2020 22:54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	08.10.2020 22:54	
o-Terphenyl	84-15-1	102	%	70-135	08.10.2020 22:54	

Xenco

Certificate of Analytical Results 669618

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: BH03A Matrix: Soil Date Received:08.10.2020 11:37

Lab Sample Id: 669618-006 Date Collected: 08.07.2020 09:50 Sample Depth: 0.5 - 1 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: CAC % Moisture:

Analyst: MAB Date Prep: 08.12.2020 12:19 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	08.12.2020 17:35	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	08.12.2020 17:35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	08.12.2020 17:35		
1,4-Difluorobenzene		540-36-3	105	%	70-130	08.12.2020 17:35		



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: Inorganic Anions by EPA 300

E300P Prep Method:

Prep Method:

Prep Method:

Prep Method:

Prep Method:

E300P

E300P

SW8015P

SW8015P

Flag

08.12.2020 Seg Number: 3134397 Matrix: Solid Date Prep: LCS Sample Id: 7709318-1-BKS LCSD Sample Id: 7709318-1-BSD MB Sample Id: 7709318-1-BLK

LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date

Chloride <10.0 250 267 107 267 90-110 0 20 08.12.2020 14:26 107 mg/kg

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3134397 Matrix: Soil Date Prep: 08.12.2020 MS Sample Id: 669618-001 S MSD Sample Id: 669618-001 SD Parent Sample Id: 669618-001

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result

08.12.2020 14:43 Chloride 116 200 322 103 322 103 90-110 0 20 mg/kg

Analytical Method: Inorganic Anions by EPA 300

3134397 Seq Number: Matrix: Soil Date Prep: 08.12.2020 MS Sample Id: 669663-001 S MSD Sample Id: 669663-001 SD Parent Sample Id: 669663-001

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limite Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec 20 08.12.2020 16:01 Chloride <9.98 200 205 103 205 103 90-110 0 mg/kg

Analytical Method: TPH by SW8015 Mod

3134122 Matrix: Solid Seq Number: Date Prep: 08.10.2020

7709153-1-BLK LCS Sample Id: 7709153-1-BKS LCSD Sample Id: 7709153-1-BSD MB Sample Id:

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 08.10.2020 12:40 35 < 50.0 1000 1070 107 1050 105 70-135 2 mg/kg 08.10.2020 12:40 Diesel Range Organics (DRO) 70-135 3 35 < 50.0 1000 1180 118 1140 114 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec %Rec Flag Date Flag %Rec Flag 08.10.2020 12:40 1-Chlorooctane 105 127 123 70-135 % 08.10.2020 12:40 o-Terphenyl 107 120 116 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134273 Matrix: Solid Date Prep: 08.11.2020

LCS Sample Id: 7709262-1-BKS LCSD Sample Id: 7709262-1-BSD MB Sample Id: 7709262-1-BLK

MB Spike LCS LCS %RPD RPD Units Analysis LCSD LCSD Limits **Parameter** Limit Result Amount Result %Rec Date Result %Rec Gasoline Range Hydrocarbons (GRO) 08.11.2020 21:35 1000 1040 104 1080 35 < 50.0 108 70-135 4 mg/kg 08.11.2020 21:35 Diesel Range Organics (DRO) 70-135 < 50.0 1000 1060 106 1100 110 4 35 mg/kg

MB MB LCS LCS LCSD Units Analysis LCSD Limits **Surrogate** Flag Date %Rec Flag %Rec %Rec Flag 08.11.2020 21:35 1-Chlorooctane 110 134 129 70-135 % 08.11.2020 21:35 o-Terphenyl 107 117 119 70-135 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

= MSD/LCSD Result

B = Spike Added D = MSD/LCSD % Rec

MS = Matrix Spike

LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: TPH by SW8015 Mod

3134122 Seq Number:

Matrix: Solid

SW8015P Prep Method: Date Prep: 08.10.2020

Units

MB Sample Id: 7709153-1-BLK

Parameter Result

MB

Analysis Flag Date

Motor Oil Range Hydrocarbons (MRO) < 50.0

08.10.2020 12:20 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134273 Matrix: Solid

SW8015P Prep Method:

Units

Date Prep:

MB Sample Id: 7709262-1-BLK

Parameter

Seq Number:

Parent Sample Id:

Diesel Range Organics (DRO)

MBResult

08.11.2020

Analysis Flag Date

Motor Oil Range Hydrocarbons (MRO) < 50.0

08.11.2020 21:15 mg/kg

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134122

70-135

116

14

SW8015P

Prep Method: Date Prep: 08.10.2020

Parent Sample Id: 669620-001

Matrix: Soil MS Sample Id: 669620-001 S

MSD Sample Id: 669620-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.8	995	1020	103	1010	102	70-135	1	35	mg/kg	08.10.2020 15:49	
Diesel Range Organics (DRO)	<49.8	995	1110	112	1090	110	70-135	2	35	mg/kg	08.10.2020 15:49	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	130		128		70-135	%	08.10.2020 15:49
o-Terphenyl	122		121		70-135	%	08.10.2020 15:49

Analytical Method: TPH by SW8015 Mod

3134273

669624-111

< 50.2

Matrix: Soil MS Sample Id: 669624-111 S Prep Method:

35

SW8015P

Date Prep: MSD Sample Id: 669624-111 SD

mg/kg

08.11.2020

08.11.2020 22:35

Flag

%RPD RPD **Parent** Spike MS MS **MSD MSD** Limits Units Analysis **Parameter** Date Result Limit Result %Rec Amount Result %Rec Gasoline Range Hydrocarbons (GRO) 08.11.2020 22:35 < 50.2 131 35 1000 1310 1160 116 70-135 12 mg/kg

1160

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		132		70-135	%	08.11.2020 22:35
o-Terphenyl	109		126		70-135	%	08.11.2020 22:35

134

1340

1000

LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3134380Matrix:SolidDate Prep:08.12.2020MB Sample Id:7709314-1-BLKLCS Sample Id:7709314-1-BKSLCSD Sample Id:7709314-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0980	98	0.0997	100	70-130	2	35	mg/kg	08.12.2020 14:37	
Toluene	< 0.00200	0.100	0.0936	94	0.0950	95	70-130	1	35	mg/kg	08.12.2020 14:37	
Ethylbenzene	< 0.00200	0.100	0.100	100	0.0990	99	71-129	1	35	mg/kg	08.12.2020 14:37	
m,p-Xylenes	< 0.00400	0.200	0.203	102	0.202	101	70-135	0	35	mg/kg	08.12.2020 14:37	
o-Xylene	< 0.00200	0.100	0.101	101	0.0996	100	71-133	1	35	mg/kg	08.12.2020 14:37	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	101		9	5		100)	70	-130	%	08.12.2020 14:37	
4-Bromofluorobenzene	106		9	8		97		70	-130	%	08.12.2020 14:37	

Analytical Method:BTEX by EPA 8021BPrep Method:SW5035ASeq Number:3134380Matrix:SoilDate Prep:08.12.2020

Parent Sample Id: 669618-001 MS Sample Id: 669618-001 S MSD Sample Id: 669618-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00202	0.101	0.107	106	0.108	108	70-130	1	35	mg/kg	08.12.2020 15:17	
Toluene	< 0.00202	0.101	0.102	101	0.104	104	70-130	2	35	mg/kg	08.12.2020 15:17	
Ethylbenzene	< 0.00202	0.101	0.105	104	0.108	108	71-129	3	35	mg/kg	08.12.2020 15:17	
m,p-Xylenes	< 0.00403	0.202	0.213	105	0.218	109	70-135	2	35	mg/kg	08.12.2020 15:17	
o-Xylene	< 0.00202	0.101	0.105	104	0.108	108	71-133	3	35	mg/kg	08.12.2020 15:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		97		70-130	%	08.12.2020 15:17
4-Bromofluorobenzene	100		100		70-130	%	08.12.2020 15:17

Chain of Custody

Work Order No: __

Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Craslbad, NM (432) 704-5440 Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

YNDA LAUMBACH ENERGY

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

Work Order Comments

Page

of

State of Project:

Project Manager: Company Name: Address:

> JOSEPH 7

ENVIRONMENTAL

Company Name: Bill to: (if different

Address:

5315 WPX

BUENA VISTA DR

THE NAVOER

3300

HUSSON

A STREET

ABORATORIES

	D	an man	Relinquished by; (Signature)	Notice: Signature of this document and relinquis of service. Xenco will be liable only for the cost of Xenco. A minimum charge of \$75.00 will be a	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed			ВИФЗА	BHØ3	BHZA	13/10/2	BHOIA	BHØ)	Sample Identification	Sample Custody Seals: Yes No	Cooler Custody Seals: Yes M	$\overline{}$	°C): 1 10	SAMPLE RECEIPT Ter	PO #:	D	Project Location EDDY CO	Project Number: \$3482\$629	Project Name: NOPTH BRUSHY	- none			Address: DOWN
	2	1	Received by: (Signature)	ishment of samples constitutes a valid purchase order from client of samples and shall not assume any responsibility for any losses applied to each project and a charge of \$5 for each sample submitted.	8020: 8RCRA 13PPM Texas 11 8020: 8RCRA 13PPM Texas 11 10 be analyzed TCLP / SPLP 6010: 8RCRA 5			V V 9950 9.5-1	9440	_	8926 02-0.5	Q855 \$3-\$5'	S 8/7/20 0850 0.1-0.3'	Matrix Sampled Sampled Depth	No /N/A Total Containers:	MG N/A Correction Factor: -0.2	No TIMOOT	Ther	Temp Blank: Yes No Wet Ice: Yes No	Quote #:	BYERS Due Date:	COUNTY Rush:	Routine	DRAW 35-4 Turn Around	D DF 11	Six 1 Email: abyers	OD TX 79745 City, State ZIP:	TOPIN TOTAL
6	4	8 110 80 W:37 2	Date/Time Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb MgTCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag	7								Numl TP	H (EP (E	A Eef	89	815 34	21)		8)		Pres.	ANAL	@ Hervicon	ZIP: (ARLSBAD, UM BEYZO	000
			ature) Received by: (Signature)	d terms and conditions nees beyond the control nees payond the control neuron need to the control need to	K Se Ag SiO2 Na									82		TAT starts	Zn Aceta	Na CT: Na	HCL: HL	112004: 112	HANGS. TH	None: No	MeOH: Me		YSIS REQUEST Pr	Deliverables: EDD L ADaPI L	Reporting:Level Cravel Cra	Bonorting Byol III Byol III PST/UST TRRP Level IV
Revised Date 022619 Rev. 2019.1			Date/Time		1631/245.1/7470/7471:Hg									Sample Comments		TAT starts the day recevied by the lab, if received by 4:00pm	Zn Acetate+ NaOH: Zn	a		Ē	5 1	ž	ne		Preservative Codes	Omer:		VI leve I Qua

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 08.10.2020 11.37.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 669618

Temperature Measuring device used: T-NM-007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		.8	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contai	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk containers.
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	ace?	N/A	

^{*} Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan

Date: 08.10.2020

Checklist reviewed by: Jessica Warner

Date: 08.11.2020

Environment Testing

NM

Page 75 of 147

Certificate of Analysis Summary 676683

LT Environmental, Inc., Arvada, CO

Project Id: 034820029

💸 eurofins

Contact:

Project Location:

Joseph Hernandez

Project Name: North Brushy Draw 35.4

Report Date: 11.10.2020 09:09 Project Manager: Jessica Kramer

Date Received in Lab: Mon 11.02.2020 15:50

Lab Id: 676683-001 Field Id: CH01 @ 4-4.5' Analysis Requested Depth: 4-4.5 ft Matrix: SOIL Sampled: 10.30.2020 10:52 BTEX by EPA 8021B 11.03.2020 09:30 Extracted: Analyzed: 11.03.2020 17:52 RL Units/RL: mg/kg 0.00200 < 0.00200 Benzene 0.00200 Toluene < 0.00200 < 0.00200 0.00200 Ethylbenzene 0.00401 < 0.00401 m,p-Xylenes o-Xylene < 0.00200 0.00200 0.00200 < 0.00200 Total Xylenes Total BTEX < 0.00200 0.00200 Chloride by EPA 300 Extracted: 11.02.2020 16:33 Analyzed: 11.02.2020 20:44 Units/RL: RLmg/kg Chloride 6190 50.0 TPH by SW8015 Mod Extracted: 11.02.2020 16:30 Analyzed: 11.03.2020 02:38 Units/RL: mg/kg RLGasoline Range Hydrocarbons (GRO) <13.9 50.2 11.6 J 50.2 Diesel Range Organics (DRO) Motor Oil Range Hydrocarbons (MRO) <11.5 50.2 11.6 J Total TPH 50.2

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Vramer



Analytical Report 676683

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

North Brushy Draw 35.4 034820029 11.10.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



11.10.2020

Project Manager: Joseph Hernandez LT Environmental, Inc. 4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676683

North Brushy Draw 35.4 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676683. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676683 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 676683

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35.4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01 @ 4-4.5'	S	10.30.2020 10:52	4 - 4.5 ft	676683-001

Xenco

Environment Testing

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35.4

 Project ID:
 034820029
 Report Date:
 11.10.2020

 Work Order Number(s):
 676683
 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Xenco

Certificate of Analytical Results 676683

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35.4

Sample Id: CH01 @ 4-4.5' Matrix: Soil Date Received:11.02.2020 15:50

Lab Sample Id: 676683-001

Date Collected: 10.30.2020 10:52

11.02.2020 16:33

Sample Depth: 4 - 4.5 ft

Prep Method: E300P

Analytical Method: Chloride by EPA 300

MAB

MAB Date Prep: % Moisture:

Basis: Wet Weight

Seq Number: 3141207

Tech:

Analyst:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6190	50.0	mg/kg	11.02.2020 20:44		5

Analytical Method: TPH by SW8015 Mod

Tech: MAB

CACAnalyst: Seq Number: 3141201

Date Prep: 11.02.2020 16:30 % Moisture:

Prep Method: SW8015P

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<13.9	50.2		mg/kg	11.03.2020 02:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	11.6	50.2		mg/kg	11.03.2020 02:38	J	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<11.5	50.2		mg/kg	11.03.2020 02:38	U	1
Total TPH	PHC635	11.6	50.2		mg/kg	11.03.2020 02:38	J	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Wet Weight

11.03.2020 17:52

70-130

Xenco

Certificate of Analytical Results 676683

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35.4

Sample Id: CH01 @ 4-4.5' Matrix: Soil Date Received:11.02.2020 15:50

Lab Sample Id: 676683-001 Date Collected: 10.30.2020 10:52 Sample Depth: 4 - 4.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

540-36-3

Seq Number: 3141311

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	11.03.2020 17:52	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.03.2020 17:52	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	60-00-4	111	%	70-130	11.03.2020 17:52		

106



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.

Flag

Flag

QC Summary 676683

LT Environmental, Inc.

North Brushy Draw 35.4

Analytical Method: Chloride by EPA 300

Seq Number: 3141207

7714384-1-BLK

Matrix: Solid

E300P

Prep Method: Date Prep: 11.02.2020

7714384-1-BSD

MB Sample Id:

LCS Sample Id: 7714384-1-BKS

LCSD Sample Id: RPD %RPD Units Analysis

mg/kg

Parameter

MB Spike Result Amount

LCS LCS Result %Rec

LCSD LCSD Result

Limits

Limit

Date

11.02.2020 18:55

%Rec Chloride <10.0 250 253 101 252 90-110 0 20 101

Analytical Method: Chloride by EPA 300

Seq Number: 3141207 Parent Sample Id:

676514-005

Matrix: Soil

MS Sample Id: 676514-005 S Prep Method: Date Prep: 11.02.2020

E300P

RPD

Limit

20

MSD Sample Id: 676514-005 SD

Parameter

Parent Spike Result Amount

MS MS Result %Rec

MSD Result 3880

MSD %Rec 95

Limits %RPD

1

Units

mg/kg

Analysis Date

Chloride

3690 199 3900 106

90-110

90-110

11.02.2020 19:11

Analytical Method: Chloride by EPA 300

3141207 Seq Number:

Matrix: Soil

93

676679-001 S

Prep Method: Date Prep:

Limit

20

E300P

11.02.2020 MSD Sample Id: 676679-001 SD

Parent Sample Id: **Parameter**

676679-001

Spike **Parent** Result Amount 344

MS MS Result %Rec

530

MS Sample Id:

MSD Result

542

MSD Limits %Rec 99

%RPD

2

RPD Units

mg/kg

Analysis

Flag Date 11.02.2020 20:28

Analytical Method: TPH by SW8015 Mod

3141201 Seq Number:

7714382-1-BLK

200

Matrix: Solid

Prep Method: Date Prep:

SW8015P 11.02.2020

Parameter

MB Sample Id:

Chloride

LCS Sample Id:

7714382-1-BKS

LCSD Sample Id: 7714382-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis Result Limit Result Amount %Rec %Rec Date Result Gasoline Range Hydrocarbons (GRO) 11.02.2020 18:36 91 35 <139 1000 907 852 85 70-135 6 mg/kg 11.02.2020 18:36 Diesel Range Organics (DRO) 1040 104 1000 70-135 35 <11.5 1000 100 4 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Date Flag %Rec 11.02.2020 18:36 1-Chlorooctane 95 125 105 70-135 % 11.02.2020 18:36 o-Terphenyl 101 103 101 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number: 3141201 Matrix: Solid

Prep Method:

SW8015P

Date Prep:

11.02.2020

Parameter

Result

MB Sample Id: 7714382-1-BLK MB

Flag

Flag

Motor Oil Range Hydrocarbons (MRO)

<11.5

Units mg/kg

Date 11.02.2020 18:16

Analysis

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag

Flag

QC Summary 676683

LT Environmental, Inc.

North Brushy Draw 35.4

Analytical Method: TPH by SW8015 Mod

Seq Number: 3141201 Parent Sample Id: 676514-007

3141201 Matrix: Soil 676514-007 MS Sample Id: 676514-007 S Prep Method: SW8015P

Date Prep: 11.02.2020

MSD Sample Id: 676514-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	<13.9	1000	837	84	838	84	70-135	0	35	mg/kg	11.02.2020 19:37
Diesel Range Organics (DRO)	<11.5	1000	910	91	927	93	70-135	2	35	mg/kg	11.02.2020 19:37

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		133		70-135	%	11.02.2020 19:37
o-Terphenyl	118		123		70-135	%	11.02.2020 19:37

Analytical Method: BTEX by EPA 8021B

Seq Number: 3141311

MB Sample Id:

7714461-1-BLK

Matrix: Solid

LCS Sample Id: 7714461-1-BKS

Prep Method: SW5035A

Date Prep: 11.03.2020 LCSD Sample Id: 7714461-1-BSD

Limits MB Spike LCS LCS LCSD %RPD **RPD** Units Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 11.03.2020 09:56 < 0.00200 0.100 0.101 101 0.106 5 35 Benzene 106 70-130 mg/kg 11.03.2020 09:56 Toluene < 0.00200 0.100 0.0955 96 0.101 101 70-130 6 35 mg/kg 11.03.2020 09:56 Ethylbenzene < 0.00200 0.100 0.0976 98 0.102 102 71-129 4 35 mg/kg 11.03.2020 09:56 m,p-Xylenes < 0.00400 0.200 0.197 99 0.205 103 70-135 4 35 mg/kg 11.03.2020 09:56 < 0.00200 0.100 0.0967 97 0.102 102 71-133 5 35 o-Xylene mg/kg

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		99		104		70-130	%	11.03.2020 09:56
4-Bromofluorobenzene	110		103		110		70-130	%	11.03.2020 09:56

Matrix: Soil

Analytical Method: BTEX by EPA 8021B

 Seq Number:
 3141311

 Parent Sample Id:
 676514-007

514-007 MS Sample Id: 676514-007 S

Prep Method: SW5035A Date Prep: 11.03.2020

MSD Sample Id: 676514-007 SD

RPD **Parent** Spike MS MS MSD MSD Limits %RPD Units Analysis **Parameter** Limit Date Result Amount Result %Rec %Rec Result 11.03.2020 10:41 < 0.00201 0.101 0.107 106 0.0886 70-130 19 35 Benzene 89 mg/kg 11.03.2020 10:41 70-130 35 Toluene < 0.00201 0.101 0.0986 98 0.0879 88 11 mg/kg Ethylbenzene < 0.00201 0.101 0.0998 99 0.0910 91 71-129 9 35 11.03.2020 10:41 mg/kg < 0.00402 0.201 0.202 100 70-135 8 35 11.03.2020 10:41 m,p-Xylenes 0.186 93 mg/kg < 0.00201 0.101 0.102 101 0.0943 94 71-133 8 35 11.03.2020 10:41 o-Xylene mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	11.03.2020 10:41
4-Bromofluorobenzene	107		117		70-130	%	11.03.2020 10:41

E = MSD/LCSD Result

Chain of Custody

Work Order No: _

make	Relinquished by: (Signature)	lotice: Signature of this doo of service. Xenco will be liat of Xenco. A minimum charg	Total 200.7 / 6010 Circle Method(s) a					CHO1094-	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: A		ň	Project Name: N		City, State ZIP: N	Address: 3	Company Name: L	Project Manager: J
(Signature)	ument and relinquishme ble only for the cost of sa e of \$75.00 will be applie	Circle Method(s) and Metal(s) to be analyzed					4.5		Yes (No	9	(Yes) No	1.2/1.0	Temp Blank:	Anna Byers	Liner	034820029	North Brushy Draw 35-4	281-702-2329	Midland, TX 79705	3300 North A Street	LT Environmental, Inc.	Joseph Hernandez
ge	Received by: (Signature)	ant of samples constitutes a amples and shall not assume to each project and a char						5 14/34/24 1552	Date Sampled S	N/A Total Containers:	N/A Correction Factor:	,	(Yes No				35-4			24	Inc.	
	ignature)	valid purchase order from any responsibility for any ge of \$5 for each sample s	RCRA 13PPM Texas 11 TCLP / SPLP 6010: 8RCRA					2 4-4.5'	Time Depth	ainers: \	actor: -0-2	1007	Thermometer ID	Wet Ice: Yes No	Due Date:	Rush:	Routine 🔟	Turn Around	Email: jhernandez@	City, State ZIP:	Address:	Company Name:	Bill to: (if different)
11/2/20 15:50	Date/Time	client company to Xenco, its at losses or expenses incurred the losses of expenses incurred the losses of expenses to the losses of the losses	Al Sb As Ba Be Sb As Ba Be C			0		- × ×	Numb TPH (E BTEX (PA 8	015 802	Mod	1)	3					Email: jhernandez@ltenv.com & abyers@ltenv.com	Carlsbad, NM 88220	5315 Buena Vista Dr	ie: WPX Energy	t) Lynda Laumbach
4 2	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Cd Ca Cr Co Cr Co Cu Pb															ANALYSIS REQUEST	env.com	20	Or .		Bill to: (if different) Lynda Laumbach
	nature) Rece	signs standard terms and cond e to circumstances beyond the o ed unless previously negotiated	Cu Fe Pb Mg Mn Mo Ni K Mn Mo Ni Se Ag Tl U															QUEST	Deliverables: EDD	Reporting:Level II	State of Project:	Program: UST/PST	
	Received by: (Signature)	itions	Se Ag SiO2								TA:								☐ ADaPT ☐	□evel III □\$T/UST	r	「	Work Order Comments
	Date/Time		Na Sr Tl Sn U V Zn 1631/245.1/7470/7471:Hg						Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the							Work Order Notes	Other:	TORP LOBIN		F☐c ¶perfund [ments

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 11.02.2020 03.50.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 676683

Analyst:

Temperature Measuring device used: TNM007

Date: 11.03.2020

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		1	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contain	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ed/ received?	Yes	
#10 Chain of Custody agrees with sample la	bels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated t	est(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		N/A	
#18 Water VOC samples have zero headspa	ace?	N/A	

* Must be completed for after-hours deliver	v of sam	ples prior t	o placing ir	the refrigerator
made be completed for ditor medic deliver	, c. ca	p.00 p0	p	. tilo i oli igolato.

manua Gaotto	Checklist completed by:	Martha Castro	Date: <u>11.02.2020</u>	
Chacklist raviowed by: lossing WAMER				

Jessica Kramer

PH Device/Lot#:

eurofins Environment Testing

Page 87 of 147

Certificate of Analysis Summary 676708

LT Environmental, Inc., Arvada, CO

Project Id: Contact:

Project Location:

034820029

NM

Joseph Hernandez

Project Name: North Brushy Draw 35-4

Report Date: 11.05.2020 08:16

Project Manager: Jessica Kramer

Date Received in Lab: Mon 11.02.2020 15:50

	Lab Id:	676708-001			
Analysis Requested	Field Id:	CH01 6-6.5'			
Analysis Requested	Depth:	6-6.5 ft			
	Matrix:	SOIL			
	Sampled:	10.30.2020 11:10			
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30			
	Analyzed:	11.03.2020 18:14			
	Units/RL:	mg/kg RL			
Benzene		< 0.00200 0.00200			
Toluene		< 0.00200 0.00200			
Ethylbenzene		< 0.00200 0.00200			
m,p-Xylenes		< 0.00401 0.00401			
o-Xylene		<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200			
Total BTEX		<0.00200 0.00200			
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13:00			
	Analyzed:	11.03.2020 15:37			
	Units/RL:	mg/kg RL			
Chloride		208 9.94			
TPH by SW8015 Mod	Extracted:	11.03.2020 13:27			
	Analyzed:	11.03.2020 17:22			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2			
Diesel Range Organics (DRO)		<50.2 50.2	_	_	_
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2			
Total TPH		<50.2 50.2			
		·	 	 ·	

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer



Analytical Report 676708

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

North Brushy Draw 35-4 034820029 11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



11.05.2020

Project Manager: Joseph Hernandez LT Environmental, Inc.

4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676708

North Brushy Draw 35-4 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676708. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676708 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 676708

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01 6-6.5'	S	10.30.2020 11:10	6 - 6.5 ft	676708-001

Xenco

Environment Testing

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029
 Report Date:
 11.05.2020

 Work Order Number(s):
 676708
 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 676708

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Matrix: Soil

Date Received:11.02.2020 15:50 Sample Depth: 6 - 6.5 ft

Date Collected: 10.30.2020 11:10

Prep Method: E300P

Analytical Method: Inorganic Anions by EPA 300

CH01 6-6.5'

MAB Tech:

Lab Sample Id: 676708-001

Sample Id:

MAB Analyst: Seq Number: 3141306 Date Prep:

11.03.2020 13:00

% Moisture:

Basis: Wet Weight

Prep Method: SW8015P

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	208	9.94	mg/kg	11.03.2020 15:37		1

Analytical Method: TPH by SW8015 Mod

Tech: MAB

CACAnalyst: Seq Number: 3141297

Date Prep:

11.03.2020 13:27

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	11.03.2020 17:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	11.03.2020 17:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	11.03.2020 17:22	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	11.03.2020 17:22	U	1
Surrogate	C	as Number %	% Recovery	Units	Limits	Analysis Date	Flag	

Wet Weight



Certificate of Analytical Results 676708

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: CH01 6-6.5' Matrix: Soil Date Received:11.02.2020 15:50

Lab Sample Id: 676708-001 Date Collected: 10.30.2020 11:10 Sample Depth: 6 - 6.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3141311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200	mg/kg	11.03.2020 18:14	U	1
Toluene	108-88-3	< 0.00200	0.00200	mg/kg	11.03.2020 18:14	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200	mg/kg	11.03.2020 18:14	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401	mg/kg	11.03.2020 18:14	U	1
o-Xylene	95-47-6	< 0.00200	0.00200	mg/kg	11.03.2020 18:14	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200	mg/kg	11.03.2020 18:14	U	1
Total BTEX		< 0.00200	0.00200	mg/kg	11.03.2020 18:14	U	1
Cumagata	Co	a Number	0/ Dagovony	Unita Limit	. A nolvoja Doto	Flog	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.03.2020 18:14	
4-Bromofluorobenzene	460-00-4	110	%	70-130	11.03.2020 18:14	



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.

Flag

E300P

E300P

E300P

Analysis

Units

Units

11.03.2020

Analysis

Prep Method:

RPD

Prep Method:

Prep Method:

RPD

%RPD

Limite

%RPD

Limits

Date Prep:

QC Summary 676708

LT Environmental, Inc.

North Brushy Draw 35-4

LCSD

LCSD

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3141306 Matrix: Solid

Spike

MB

LCS Sample Id: 7714455-1-BKS LCSD Sample Id: 7714455-1-BSD MB Sample Id: 7714455-1-BLK

LCS

LCS

Parameter Result Amount Result %Rec Result %Rec Limit Date

Chloride <10.0 250 260 104 259 90-110 0 20 11.03.2020 15:10 104 mg/kg

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3141306 Matrix: Soil Date Prep: 11.03.2020 676707-001 S 676707-001 MS Sample Id: MSD Sample Id: 676707-001 SD Parent Sample Id:

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis

Parameter Flag Result Amount Result %Rec %Rec Limit Date Result 11.03.2020 15:26 Chloride 606 200 796 95 806 100 90-110 1 20 mg/kg

Analytical Method: Inorganic Anions by EPA 300

3141306 Seq Number: Matrix: Soil Date Prep: 11.03.2020

MS

MS Sample Id: 676720-001 S MSD Sample Id: 676720-001 SD Parent Sample Id: 676720-001 MS

Spike **Parent** MSD **MSD** Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 107 20 11.03.2020 16:43 148 200 361 363 108 90-110 1 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: 3141297 Matrix: Solid Seq Number: Date Prep: 11.03.2020

MB Sample Id: 7714426-1-BLK LCS Sample Id: 7714426-1-BKS LCSD Sample Id: 7714426-1-BSD

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 11.03.2020 15:40 35 < 50.0 1000 1180 118 1130 113 70-135 4 mg/kg 11.03.2020 15:40 Diesel Range Organics (DRO) 70-135 4 35 < 50.0 1000 1250 125 1200 120 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Date Flag %Rec 11.03.2020 15:40 1-Chlorooctane 122 130 126 70-135 % 11.03.2020 15:40 o-Terphenyl 117 120 118 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

Seq Number: 3141297 Matrix: Solid Date Prep: 11.03.2020

MB Sample Id: 7714426-1-BLK

MBUnits Analysis Flag **Parameter** Result Date 11.03.2020 15:20 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag

Seq Number:

Seq Number:

Parent Sample Id:

QC Summary 676708

LT Environmental, Inc.

North Brushy Draw 35-4

676707-001 S

Analytical Method: TPH by SW8015 Mod

676707-001

3141297

Matrix: Soil

MS Sample Id:

SW8015P Prep Method:

Date Prep: 11.03.2020 MSD Sample Id: 676707-001 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.3 1010 1050 35 11.03.2020 16:41 1130 112 105 70-135 7 mg/kg 11.03.2020 16:41 1010 70-135 mg/kg Diesel Range Organics (DRO) < 50.3 1150 114 1140 1 35 114

MSD Units MS MS Limits Analysis MSD **Surrogate** %Rec Flag Flag Date %Rec 11.03.2020 16:41 1-Chlorooctane 129 133 70-135 % 105 11.03.2020 16:41 o-Terphenyl 123 70-135 %

Analytical Method: BTEX by EPA 8021B

3141311

Matrix: Solid

Prep Method:

SW5035A

Date Prep: 11.03.2020

LCS Sample Id: 7714461-1-BKS MB Sample Id: 7714461-1-BLK

LCSD Sample Id: 7714461-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56

MBMB LCS LCS LCSD Limits Units Analysis LCSD **Surrogate** %Rec Flag %Rec Flag %Rec Flag Date 11.03.2020 09:56 1,4-Difluorobenzene 104 99 104 70-130 % 11.03.2020 09:56 4-Bromofluorobenzene 103 110 70-130 % 110

Analytical Method: BTEX by EPA 8021B

Seq Number: 3141311 Parent Sample Id:

676514-007

Matrix: Soil

MS Sample Id: 676514-007 S

SW5035A Prep Method:

Date Prep: 11.03.2020

MSD Sample Id: 676514-007 SD

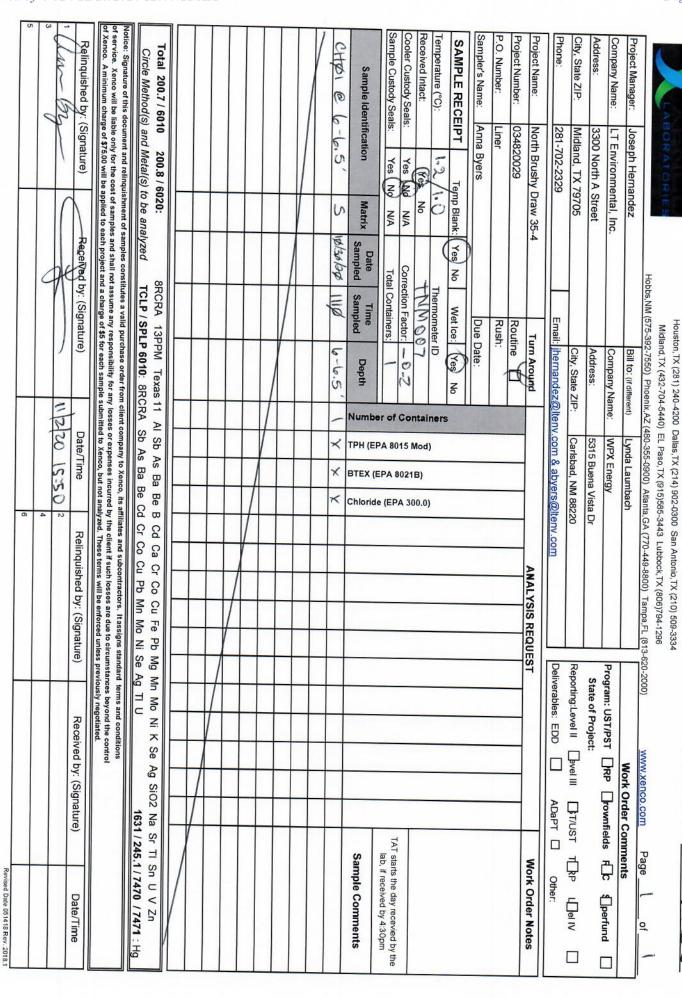
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	11.03.2020 10:41
4-Bromofluorobenzene	107		117		70-130	%	11.03.2020 10:41

E = MSD/LCSD Result

Chain of Custody

Work Order No: 676768



Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 11.02.2020 03.50.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 676708

Analyst:

Temperature Measuring device used: T_NM_007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		1	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contai	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk containers.
#13 Samples properly preserved?		Yes	Contamoro
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	ace?	N/A	

Must be completed for	r after-hours deliver	v of samples prior to	placing in the refrigerato
Must be combleted to	aitei-ilouis delivei	V OI SAIIIDIES DI IOI LO	Diacilia ili tile rell'iderato

Checklist completed by: Date: 11.03.2020 Checklist reviewed by:

Jessica Kramer

Jessica Kramer

PH Device/Lot#:

Date: 11.03.2020

Page 99 of 147

Certificate of Analysis Summary 676710

LT Environmental, Inc., Arvada, CO

Project Id: 034820029

eurofins Environment Testing

Contact:

Project Location:

Joseph Hernandez

NM

Project Name: North Brushy Draw 35-4

Project Manager: Jessica Kramer

Date Received in Lab: Mon 11.02.2020 15:50

Report Date: 11.05.2020 08:16

Toject Location.				110,0001	ianagei.	
	Lab Id:	676710-001				
Analysis Requested	Field Id:	CH01 @ 8-8.5'				
Analysis Requesieu	Depth:	8-8.5 ft				
	Matrix:	SOIL				
	Sampled:	10.30.2020 11:35				
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30				
	Analyzed:	11.03.2020 18:59				
	Units/RL:	mg/kg RL				
Benzene		< 0.00200 0.00200				
Toluene		<0.00200 0.00200				
Ethylbenzene		<0.00200 0.00200				
m,p-Xylenes		< 0.00399 0.00399				
o-Xylene		<0.00200 0.00200				
Total Xylenes		< 0.00200 0.00200				
Total BTEX		<0.00200 0.00200				
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13:00				
	Analyzed:	11.03.2020 15:48				
	Units/RL:	mg/kg RL				
Chloride		120 50.5				
TPH by SW8015 Mod	Extracted:	11.03.2020 13:27				
	Analyzed:	11.03.2020 18:02				
	Units/RL:	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2				
Diesel Range Organics (DRO)		<50.2 50.2				
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2				
Total TPH		<50.2 50.2				

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer



Analytical Report 676710

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

North Brushy Draw 35-4 034820029 11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



11.05.2020

Project Manager: **Joseph Hernandez LT Environmental, Inc.**

4600 W. 60th Avenue Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676710

North Brushy Draw 35-4 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676710. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676710 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 676710

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01 @ 8-8.5'	S	10.30.2020 11:35	8 - 8.5 ft	676710-001

Xenco

Environment Testing

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029
 Report Date:
 11.05.2020

 Work Order Number(s):
 676710
 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Dil



Certificate of Analytical Results 676710

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Soil

Sample Id: CH01 @ 8-8.5' Matrix:

Date Received:11.02.2020 15:50

Lab Sample Id: 676710-001 Date Collected: 10.30.2020 11:35

Cas Number

Sample Depth: 8 - 8.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

MAB Tech:

% Moisture:

MAB Analyst:

Parameter

Analyst:

11.03.2020 13:00

Units

Basis: Wet Weight

Seq Number: 3141306

Date Prep:

Result

Analysis Date RL Flag Chloride 16887-00-6 120 50.5 11.03.2020 15:48 5 mg/kg

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

Seq Number: 3141297

MAB

CAC

Date Prep: 11.03.2020 13:27 % Moisture:

Basis:

Wet Weight

Flag

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.03.2020 18:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2	mg/kg	11.03.2020 18:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2	mg/kg	11.03.2020 18:02	U	1
Total TPH	PHC635	< 50.2	50.2	mg/kg	11.03.2020 18:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	123	%	70-135	11.03.2020 18:02
o-Terphenyl	84-15-1	119	%	70-135	11.03.2020 18:02

Wet Weight

Xenco

Environment Testing

Certificate of Analytical Results 676710

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: CH01 @ 8-8.5' Matrix: Soil Date Received:11.02.2020 15:50

Lab Sample Id: 676710-001 Date Collected: 10.30.2020 11:35 Sample Depth: 8 - 8.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Seq Number: 3141311

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	11.03.2020 18:59	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.03.2020 18:59	U	1
Surrogate	Ca	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	109	%	70-130	11.03.2020 18:59	
4-Bromofluorobenzene	460-00-4	126	%	70-130	11.03.2020 18:59	



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.

QC Summary 676710

LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3141306

7714455-1-BLK

Matrix: Solid

Prep Method: Date Prep:

E300P 11.03.2020

7714455-1-BSD

MB Sample Id:

LCS Sample Id:

250

7714455-1-BKS

259

LCSD Sample Id: RPD Units

Parameter Chloride

MB Spike Result Amount <10.0

LCS LCS Result %Rec

260

LCSD LCSD Result %Rec

104

Limits %RPD 90-110 0

Limit 20

Analysis Date

11.03.2020 15:10 mg/kg

Flag

Flag

Flag

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3141306

Matrix: Soil

104

Prep Method: Date Prep:

E300P 11.03.2020

Parent Sample Id:

676707-001

676707-001 S MS Sample Id:

MSD Sample Id: 676707-001 SD

Parameter

Parent Spike Result Amount

MS MS Result %Rec

MSD MSD %Rec Result

Limits %RPD RPD Units Limit

mg/kg

Analysis Date

11.03.2020 15:26

Chloride 606 200 796 95 806 100 90-110 1 20

Analytical Method: Inorganic Anions by EPA 300

3141306

Matrix: Soil

E300P Prep Method:

Date Prep: 11.03.2020

Seq Number: Parent Sample Id: 676720-001

MS Sample Id: 676720-001 S MSD Sample Id: 676720-001 SD

Parameter

Chloride

Spike **Parent** Result Amount 148 200

MS MS Result %Rec 107

361

MSD **MSD** Result %Rec 363

108 90-110

Limite

RPD %RPD Limit

1

20

Units Analysis

Flag Date 11.03.2020 16:43

Analytical Method: TPH by SW8015 Mod

Seq Number:

3141297

Matrix: Solid

Prep Method:

SW8015P

Date Prep: 11.03.2020

mg/kg

MB Sample Id:

7714426-1-BLK

LCS Sample Id: 7714426-1-BKS LCSD Sample Id: 7714426-1-BSD

RPD MB Spike LCS LCS LCSD LCSD Limits %RPD Units Analysis **Parameter** Result Limit Date Result Amount %Rec Result %Rec Gasoline Range Hydrocarbons (GRO) 11.03.2020 15:40 35 < 50.0 1000 1180 118 1130 113 70-135 4 mg/kg 11.03.2020 15:40 Diesel Range Organics (DRO) 1250 125 70-135 4 35 < 50.0 1000 1200 120 mg/kg

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	122		130		126		70-135	%	11.03.2020 15:40
o-Terphenyl	117		120		118		70-135	%	11.03.2020 15:40

Analytical Method: TPH by SW8015 Mod

Seq Number: 3141297 Matrix: Solid

MB Sample Id: 7714426-1-BLK

Prep Method: Date Prep:

SW8015P

11.03.2020

Parameter

MBResult

Units

Analysis

Date

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

mg/kg

11.03.2020 15:20

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result = MSD/LCSD Result

MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

Flag

Flag

Seq Number:

Parent Sample Id:

MB Sample Id:

QC Summary 676710

LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: TPH by SW8015 Mod

676707-001

3141297

Matrix: Soil MS Sample Id: 676707-001 S

SW8015P Prep Method:

Date Prep:

MSD Sample Id: 676707-001 SD

11.03.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Gasoline Range Hydrocarbons (GRO)	< 50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.03.2020 16:41
Diesel Range Organics (DRO)	< 50.3	1010	1150	114	1140	114	70-135	1	35	mg/kg	11.03.2020 16:41

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		133		70-135	%	11.03.2020 16:41
o-Terphenyl	123		105		70-135	%	11.03.2020 16:41

Analytical Method: BTEX by EPA 8021B

Seq Number: 3141311

7714461-1-BLK

Matrix: Solid

LCS Sample Id: 7714461-1-BKS

Prep Method:

SW5035A

Date Prep: 11.03.2020

LCSD Sample Id: 7714461-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56
a .	MB	MB	L	cs i	cs	LCSI) LCS	D Li	imits	Units	Analysis

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		99		104		70-130	%	11.03.2020 09:56
4-Bromofluorobenzene	110		103		110		70-130	%	11.03.2020 09:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3141311 Parent Sample Id:

676514-007

Matrix: Soil

MS Sample Id: 676514-007 S

SW5035A Prep Method: Date Prep:

11.03.2020

MSD Sample Id: 676514-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	11.03.2020 10:41
4-Bromofluorobenzene	107		117		70-130	%	11.03.2020 10:41

Page 10 of 12

MS = Matrix Spike

Personal Manager: Long Personal Manager:								
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Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Manager: Joseph Hermandez Hobbs NM (575-392-7550) Phoenis, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-820-2000) Manager: LT Environmental, Inc. LT Environmental, Inc. LT Environmental, Inc. Company Name: WPX Energy Mork Order Commings				5	(Kee	(Yes)		SAMPLE RECEIPT
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Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-520-2000) Www.xenco.com Page Name: LT Environmental, Inc. Company Name: WPX Energy 3300 North A Street Address: S315 Buena Vista Dr State of Project:		evel III		Carlsbad, NM 8822	City, State ZIP:		lland, TX 79705	
Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-820-2000) www.xenco.com Page Joseph Hernandez LT Environmental, Inc. Company Name: WPX Energy Work Order Comments Program: UST/PST RP Trownfields FC)r	5315 Buena Vista D	Address:		0 North A Street	18925
Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000) www.xenco.com Page Joseph Hernandez Bill to: (if different) Lynda Laumbach Work Order Comments				15	Company Nam		Environmental, Inc	
Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0800) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000) www.xenco.com Page [nments	Work Order Com			Bill to: (if different		eph Hernandez	
509-3334	_		3443 Lubbock,TX (806)794-1296 3A (770-449-8800) Tampa,FL (813-6)	440) EL Paso,TX (915)585-3 AZ (480-355-0900) Atlanta,C	Midland,TX (432-704-5 ,NM (575-392-7550) Phoenix,	Hobbs	RATORIES	LABO
	011 01 0	Work Order No:			Houston TX (281) 240-4			

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 11.02.2020 03.50.00 PM Air and Metal samples Acceptable Range: Ambient

Work Order #: 676710 Temperature Measuring device used : T_NM_007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		1	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contai	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk containers.
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	ace?	N/A	

^{*} Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Checklist completed by:	Cloe Clifton	Date: <u>11.03.2020</u>
Checklist reviewed by:	Jessica Weamer Jessica Kramer	Date: <u>11.03.2020</u>

PH Device/Lot#:

Analyst:

eurofins Environment Testing

Page 111 of 147

Certificate of Analysis Summary 676716

LT Environmental, Inc., Arvada, CO

Project Id:

Project Location:

Contact:

034820029

NM

Joseph Hernandez

Project Name: North Brushy Draw 35-4

Date Received in Lab: Mon 11.02.2020 15:50

Report Date: 11.05.2020 08:37

Project Manager: Jessica Kramer

Troject Location.				210,0001.2	anager.	
	Lab Id:	676716-001				
Analysis Requested	Field Id:	CH02 @ 2-2.5'				
Analysis Requested	Depth:	2-2.5 ft				
	Matrix:	SOIL				
	Sampled:	10.30.2020 12:38				
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30				
	Analyzed:	11.03.2020 20:29				
	Units/RL:	mg/kg RL				
Benzene		< 0.00202 0.00202				
Toluene		< 0.00202 0.00202				
Ethylbenzene		< 0.00202 0.00202				
m,p-Xylenes		< 0.00404 0.00404				
o-Xylene		< 0.00202 0.00202				
Total Xylenes		< 0.00202 0.00202				
Total BTEX		< 0.00202 0.00202				
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13:00				
	Analyzed:	11.03.2020 16:21				
	Units/RL:	mg/kg RL				
Chloride		64.3 9.92				
TPH by SW8015 Mod	Extracted:	11.03.2020 13:27				
	Analyzed:	11.03.2020 19:24				
	Units/RL:	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)	'	<49.9 49.9				
Diesel Range Organics (DRO)		<49.9 49.9				
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9				
Total TPH		<49.9 49.9	_			

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer



Analytical Report 676716

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

North Brushy Draw 35-4 034820029 11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



11.05.2020

Project Manager: **Joseph Hernandez LT Environmental, Inc.** 4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676716

North Brushy Draw 35-4 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676716. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676716 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 676716

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 2-2.5'	S	10.30.2020 12:38	2 - 2.5 ft	676716-001

Xenco

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029
 Report Date:
 11.05.2020

 Work Order Number(s):
 676716
 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 676716

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: CH02 @ 2-2.5' Matrix: Soil

PHC635

Date Received:11.02.2020 15:50

Date Collected: 10.30.2020 12:38

Sample Depth: 2 - 2.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

MAB Tech:

Lab Sample Id: 676716-001

MAB Analyst:

Date Prep: 11.03.2020 13:00

% Moisture:

Seq Number: 3141306

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	64.3	9.92	mg/kg	11.03.2020 16:21		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

11.03.2020 19:24

Tech: MAB

Seq Number: 3141297

Analyst:

Total TPH

CAC

Date Prep: 11.03.2020 13:27

49.9

% Moisture:

Basis:

mg/kg

mg/kg

Wet Weight

U

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.03.2020 19:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.03.2020 19:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.03.2020 19:24	U	1

<49.9

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	129	%	70-135	11.03.2020 19:24	
o-Terphenyl	84-15-1	128	%	70-135	11.03.2020 19:24	

Date Received:11.02.2020 15:50

Wet Weight

Xenco

Environment Testing

Certificate of Analytical Results 676716

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: CH02 @ 2-2.5' Matrix: Soil

Lab Sample Id: 676716-001 Date Collected: 10.30.2020 12:38 Sample Depth: 2 - 2.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

460-00-4

Seq Number: 3141311

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	11.03.2020 20:29	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	11.03.2020 20:29	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	108	%	70-130	11.03.2020 20:29		

117

%

70-130

11.03.2020 20:29



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

QC Summary 676716

LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3141306

Matrix: Solid

104

Prep Method:

E300P

Date Prep: 11.03.2020

7714455-1-BSD

MB Sample Id: **Parameter**

7714455-1-BLK

LCS Sample Id: 7714455-1-BKS

Limits LCSD

LCSD Sample Id: RPD

Limit

20

Analysis Flag

Chloride

Spike Result Amount <10.0 250

MB

LCS LCS Result %Rec

260

LCSD Result 259

%Rec 90-110 104

0

%RPD

mg/kg

Units

Date 11.03.2020 15:10

Analytical Method: Inorganic Anions by EPA 300

Seq Number:

3141306

Matrix: Soil

95

Prep Method: Date Prep:

E300P 11.03.2020

Parent Sample Id:

676707-001

676707-001 S MS Sample Id:

MSD Sample Id:

676707-001 SD

Parameter

Chloride

Parent Spike Result Amount

606

200

MS MS Result %Rec

796

MSD Result

806

MSD Limits %Rec

90-110

100

%RPD RPD Limit

1

1

Units Analysis

Flag Date 11.03.2020 15:26

Analytical Method: Inorganic Anions by EPA 300

3141306

Matrix: Soil

Prep Method:

20

E300P

Date Prep: 11.03.2020

mg/kg

Units

mg/kg

Parent Sample Id:

676720-001

MS Sample Id: 676720-001 S MSD Sample Id: 676720-001 SD

Parameter Chloride

Seq Number:

MB Sample Id:

Seq Number:

Spike **Parent** Result Amount 148 200

MS MS Result %Rec 107 361

MSD **MSD** Result %Rec 363

Limite 90-110

RPD %RPD Limit

20

Analysis

Flag Date 11.03.2020 16:43

Analytical Method: TPH by SW8015 Mod

3141297

Matrix: Solid

108

Prep Method:

LCSD Sample Id: 7714426-1-BSD

Units

%

%

SW8015P

7714426-1-BLK

LCS Sample Id: 7714426-1-BKS Date Prep:

11.03.2020

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD Parameter** Result Limit Result Amount %Rec %Rec Result

Gasoline Range Hydrocarbons (GRO)

1000 1000

120

Units

Analysis

35 < 50.0 1180 118 1130 113 70-135 4 mg/kg 11.03.2020 15:40 Diesel Range Organics (DRO) 70-135 4 35 < 50.0 1250 125 1200 120 mg/kg

MBMB %Rec

Date 11.03.2020 15:40

Surrogate

1-Chlorooctane

o-Terphenyl

122

%Rec Flag 130

LCS LCS Flag

LCSD LCSD

%Rec

126

118

Flag

Limits

70-135

70-135

Analysis Date

11.03.2020 15:40

11.03.2020 15:40

3141297

Analytical Method: TPH by SW8015 Mod

117

Matrix: Solid

Prep Method:

SW8015P

11.03.2020

Parameter

Seq Number:

MBResult

MB Sample Id: 7714426-1-BLK

Date Prep:

Flag

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

Units mg/kg

Date 11.03.2020 15:20

Analysis

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag

Flag

Seq Number:

Parent Sample Id:

QC Summary 676716

LT Environmental, Inc.

North Brushy Draw 35-4

676707-001 S

Analytical Method: TPH by SW8015 Mod

3141297

Matrix: Soil 676707-001 MS Sample Id:

SW8015P Prep Method:

11.03.2020 Date Prep:

676707-001 SD MSD Sample Id:

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.3 1010 1130 1050 35 11.03.2020 16:41 112 105 70-135 7 mg/kg 11.03.2020 16:41 1010 mg/kg Diesel Range Organics (DRO) < 50.3 1150 114 1140 70-135 1 35 114

MS **MSD** Limits Units MS MSD Analysis **Surrogate** %Rec Flag Flag Date %Rec 11.03.2020 16:41 1-Chlorooctane 129 133 70-135 % 105 11.03.2020 16:41 o-Terphenyl 123 70-135 %

Analytical Method: BTEX by EPA 8021B

3141311 Seq Number:

MB Sample Id:

7714461-1-BLK

Matrix: Solid

LCS Sample Id: 7714461-1-BKS

Prep Method:

SW5035A

Date Prep: 11.03.2020

LCSD Sample Id: 7714461-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		99		104		70-130	%	11.03.2020 09:56
4-Bromofluorobenzene	110		103		110		70-130	%	11.03.2020 09:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3141311 Parent Sample Id: 676514-007

Matrix: Soil MS Sample Id: 676514-007 S

SW5035A Prep Method: Date Prep:

11.03.2020

MSD Sample Id: 676514-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	I
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	11.03.2020 10:41
4-Bromofluorobenzene	107		117		70-130	%	11.03.2020 10:41

E = MSD/LCSD Result

Popular Number Lieury Dawn 35-4 Turn Around Popular Number Dawn 35-4 Turn Around Popular Number Lieury Dawn 35-4 Turn Around Popular Number Lieury Dawn 35-4 Turn Around Popular Number Lieury Dawn 35-4 Turn Around Popular Number Dawn 35-4 Turn Around Popular Number Lieury Dawn 35-4 Turn Around Popular Number Daw	ure) Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	jnature) Recu	Rélinquished by: (Signature)
Work Order No. 0) 509-3334 0) 794-1296	901/243.11/4/01/4/11:Ng		iffiliates and subcontractors. It assigns stands by the client if such losses are due to circums alyzed. These terms will be enforced unless pr	ient company to Xenco, its a sses or expenses incurred mitted to Xenco, but not an	s constitutes a valid purchase order from c hall not assume any responsibility for any I ject and a charge of \$5 for each sample su	ent and relinquishment of sample only for the cost of samples and s \$75.00 will be applied to each pro	tice: Signature of this docum service. Xenco will be liable Xenco. A minimum charge of
Chair of Custody	4a Sr Tl Sn U V Zn	Mo Ni K Se Ag SiO2	T Fe	Al Sb As Ba Be RA Sb As Ba Be C	8RCRA 13PPM Texas 1: TCLP/SPLP 6010: 8RCF	200.8 / 6020: nd Metal(s) to be analyzed	Circle Method(s) ar
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Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000) Bill to: (if different) Lynda Laumbach Company Name: WPX Energy 3300 North A Street Address: 5315 Buena Vista Dr	9	evel III			City, State ZII	Midland, TX 79705	ate ZIP:
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	11 to the original	Work Order	Custody	Chain of			

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient

Date/ Time Received: 11.02.2020 03.50.00 PM

Temperature Measuring device used: T_NM_007

Work Order #: 676716

Analyst:

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		1	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping contai	ner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?		Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		Yes	
#9 Chain of Custody signed when relinquish	ned/ received?	Yes	
#10 Chain of Custody agrees with sample la	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk containers.
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	ace?	N/A	

* Must be completed for	after-hours deliver	v of samples prior t	o placing in the	refrigerator
Must be combleted for	alter-mours acriver	V OI SAIIIDIGS DITOI I	o biacilia ili tile	i eli idei atoi

Checklist completed by:	Cloe Clifton	Date: <u>11.03.2020</u>
Checklist reviewed by:	Jessian Vramer	Date: 11.03.2020

Jessica Kramer

PH Device/Lot#:

Environment Testing

Page 123 of 147

Certificate of Analysis Summary 676718

LT Environmental, Inc., Arvada, CO

Project Id: Contact:

Project Location:

💸 eurofins

034820029

NM

Joseph Hernandez

Project Name: North Brushy Draw 35-4

Date Received in Lab: Mon 11.02.2020 16:50 **Report Date:** 11.05.2020 08:38

Project Manager: Jessica Kramer

	Lab Id:	676718-001			
Analysis Requested	Field Id:	CH02 @ 4-4.5'			
muiysis Requesicu	Depth:	4-4.5 ft			
	Matrix:	SOIL			
	Sampled:	10.30.2020 13:00			
BTEX by EPA 8021B	Extracted:	11.03.2020 09:30			
	Analyzed:	11.03.2020 20:51			
	Units/RL:	mg/kg RL			
Benzene		<0.00199 0.00199			
Toluene		<0.00199 0.00199			
Ethylbenzene		<0.00199 0.00199			
m,p-Xylenes		<0.00398 0.00398			
o-Xylene		<0.00199 0.00199			
Total Xylenes		< 0.00199 0.00199			
Total BTEX		<0.00199 0.00199			
Inorganic Anions by EPA 300	Extracted:	11.03.2020 13:00			
	Analyzed:	11.03.2020 16:26			
	Units/RL:	mg/kg RL			
Chloride		34.2 10.0			
TPH by SW8015 Mod	Extracted:	11.03.2020 13:27			
	Analyzed:	11.03.2020 19:44			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3			
Diesel Range Organics (DRO)		<50.3 50.3			
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3			
Total TPH		<50.3 50.3			

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer



Analytical Report 676718

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

North Brushy Draw 35-4 034820029 11.05.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



11.05.2020

Project Manager: **Joseph Hernandez LT Environmental, Inc.** 4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676718

North Brushy Draw 35-4 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676718. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676718 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 676718

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 4-4.5'	S	10.30.2020 13:00	4 - 4.5 ft	676718-001

Xenco

Environment Testing

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029
 Report Date:
 11.05.2020

 Work Order Number(s):
 676718
 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 676718

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: CH02 @ 4-4.5' Matrix: Soil

Date Received:11.02.2020 16:50

Lab Sample Id: 676718-001 Date Collected: 10.30.2020 13:00 Sample Depth: 4 - 4.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

% Moisture:

MAB Analyst:

Date Prep: 11.03.2020 13:00

Seq Number: 3141306

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	34.2	10.0	mg/kg	11.03.2020 16:26		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

CACAnalyst: Seq Number: 3141297 Date Prep: 11.03.2020 13:27 % Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	11.03.2020 19:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	11.03.2020 19:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	11.03.2020 19:44	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	11.03.2020 19:44	U	1
Surrogate	(Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	131	%	70-135	11.03.2020 19:44
o-Terphenyl	84-15-1	127	%	70-135	11.03.2020 19:44

Wet Weight

Xenco

Certificate of Analytical Results 676718

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: CH02 @ 4-4.5' Matrix: Soil Date Received:11.02.2020 16:50

Lab Sample Id: 676718-001 Date Collected: 10.30.2020 13:00 Sample Depth: 4 - 4.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A

Tech: MAB

Analyst: MAB Date Prep: 11.03.2020 09:30 % Moisture: Basis:

Seq Number: 3141311

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199	mg/kg	11.03.2020 20:51	U	1
Toluene	108-88-3	< 0.00199	0.00199	mg/kg	11.03.2020 20:51	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199	mg/kg	11.03.2020 20:51	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398	mg/kg	11.03.2020 20:51	U	1
o-Xylene	95-47-6	< 0.00199	0.00199	mg/kg	11.03.2020 20:51	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199	mg/kg	11.03.2020 20:51	U	1
Total BTEX		< 0.00199	0.00199	mg/kg	11.03.2020 20:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.03.2020 20:51	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.03.2020 20:51	



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.

Flag

Flag

QC Summary 676718

LT Environmental, Inc.

North Brushy Draw 35-4

7714455-1-BKS

259

676707-001 S

90-110

104

0

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3141306

MB Sample Id: 7714455-1-BLK Matrix: Solid

E300P Prep Method:

20

Date Prep: 11.03.2020

LCSD Sample Id: 7714455-1-BSD

mg/kg

LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 11.03.2020 15:10

104

LCS Sample Id:

260

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3141306

Chloride

Parent Sample Id:

Matrix: Soil 676707-001 MS Sample Id:

250

<10.0

Prep Method: E300P

Date Prep: 11.03.2020 MSD Sample Id: 676707-001 SD

E300P

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result

11.03.2020 15:26 Chloride 606 200 796 95 806 100 90-110 1 20 mg/kg

Analytical Method: Inorganic Anions by EPA 300

Prep Method: 3141306 Seq Number: Matrix: Soil Date Prep: 11.03.2020 MS Sample Id: 676720-001 S MSD Sample Id: 676720-001 SD Parent Sample Id: 676720-001

Spike **RPD Parent** MS MS %RPD Units MSD **MSD** Limite Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 107 20 11.03.2020 16:43 148 200 361 363 108 90-110 1 mg/kg

Analytical Method: TPH by SW8015 Mod

3141297 Seq Number:

SW8015P Prep Method:

Date Prep: 11.03.2020

7714426-1-BLK LCS Sample Id: 7714426-1-BKS LCSD Sample Id: 7714426-1-BSD MB Sample Id:

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis **Parameter** Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 11.03.2020 15:40 35 < 50.0 1000 1180 118 1130 113 70-135 4 mg/kg 11.03.2020 15:40 Diesel Range Organics (DRO) 70-135 4 35 < 50.0 1000 1250 125 1200 120 mg/kg

Matrix: Solid

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Date Flag %Rec 11.03.2020 15:40 1-Chlorooctane 122 130 126 70-135 % 11.03.2020 15:40 o-Terphenyl 117 120 118 70-135 %

Analytical Method: TPH by SW8015 Mod

Seq Number: 3141297 Matrix: Solid

SW8015P Prep Method:

Date Prep: 11.03.2020

MB Sample Id: 7714426-1-BLK

MBUnits Analysis Flag **Parameter** Result Date 11.03.2020 15:20 mg/kg

Motor Oil Range Hydrocarbons (MRO) < 50.0

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag

Seq Number:

Parent Sample Id:

QC Summary 676718

LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: TPH by SW8015 Mod

3141297

Matrix: Soil 676707-001 MS Sample Id: 676707-001 S

SW8015P Prep Method:

Date Prep:

MSD Sample Id: 676707-001 SD

11.03.2020

Parameter	Parent	Spike	MS	MS	MSD	MSD	Limits	%RPD	RPD	Units	Analysis
rarameter	Result	Amount	Result	%Rec	Result	%Rec			Limit		Date
Gasoline Range Hydrocarbons (GRO)	< 50.3	1010	1130	112	1050	105	70-135	7	35	mg/kg	11.03.2020 16:41
Diesel Range Organics (DRO)	< 50.3	1010	1150	114	1140	114	70-135	1	35	mg/kg	11.03.2020 16:41

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		133		70-135	%	11.03.2020 16:41
o-Terphenyl	123		105		70-135	%	11.03.2020 16:41

Analytical Method: BTEX by EPA 8021B

Seq Number: 3141311 Prep Method:

SW5035A

Date Prep: 11.03.2020

7714461-1-BLK LCS Sample Id: 7714461-1-BKS MB Sample Id:

Matrix: Solid

LCSD Sample Id: 7714461-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date
Benzene	< 0.00200	0.100	0.101	101	0.106	106	70-130	5	35	mg/kg	11.03.2020 09:56
Toluene	< 0.00200	0.100	0.0955	96	0.101	101	70-130	6	35	mg/kg	11.03.2020 09:56
Ethylbenzene	< 0.00200	0.100	0.0976	98	0.102	102	71-129	4	35	mg/kg	11.03.2020 09:56
m,p-Xylenes	< 0.00400	0.200	0.197	99	0.205	103	70-135	4	35	mg/kg	11.03.2020 09:56
o-Xylene	< 0.00200	0.100	0.0967	97	0.102	102	71-133	5	35	mg/kg	11.03.2020 09:56

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		99		104		70-130	%	11.03.2020 09:56
4-Bromofluorobenzene	110		103		110		70-130	%	11.03.2020 09:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3141311 Parent Sample Id:

676514-007

Matrix: Soil

MS Sample Id: 676514-007 S

SW5035A Prep Method: Date Prep:

11.03.2020

MSD Sample Id: 676514-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00201	0.101	0.107	106	0.0886	89	70-130	19	35	mg/kg	11.03.2020 10:41	
Toluene	< 0.00201	0.101	0.0986	98	0.0879	88	70-130	11	35	mg/kg	11.03.2020 10:41	
Ethylbenzene	< 0.00201	0.101	0.0998	99	0.0910	91	71-129	9	35	mg/kg	11.03.2020 10:41	
m,p-Xylenes	< 0.00402	0.201	0.202	100	0.186	93	70-135	8	35	mg/kg	11.03.2020 10:41	
o-Xylene	< 0.00201	0.101	0.102	101	0.0943	94	71-133	8	35	mg/kg	11.03.2020 10:41	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	11.03.2020 10:41
4-Bromofluorobenzene	107		117		70-130	%	11.03.2020 10:41

		п	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (2	Dallas,TX (214) 902-0300 San Antonio,T	300 San Antonio,TX (210) 509-3334	4	WORK Order No: O FO FF O	
		Hobbs,NM (57	Midiand, I.X. (432-704-544 75-392-7550) Phoenix,A.	Z (480-355-0900) Atlanta	mixiario, I.x (432-704-0440) EL Paso, I.X (915)585-3443 Lubbock, TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)		www.yenco.com Page	_ of _
Project Manager: J	Joseph Hernandez		Bill to: (if different)	Lynda Laumbach				
Company Name: L	LT Environmental, Inc.	C.	Company Name:			Program: UST/PST	PRP Prownfields Ele	1
	3300 North A Street		Address:		ı Dr		NT Liowillielus 1	4_perrund _
City, State ZIP: N	Midland, TX 79705		City, State ZIP:	Carlsbad, NM 88220	220	Reporting:Level II bv	Bveliii Tt/UST TRP	
Phone: 2	281-702-2329	E	Email: hernandez@ltenv.com & abyers@ltenv.com	env.com & abyers@	ltenv.com		ADaPT []	her:
Project Name: N	North Brushy Draw 35-4		Turn Around		ANALYSIS REQUEST	HEST	Work	Work Order Notes
ň	034820029		Routine					Control Hotel
	Liner	70						
ne:	Anna Byers	0	Due Date:					
6	PT Temp Blank:	Wes No W	Ice: Vec No					
Temperature (°C):	12			015				
Received Intact:		+NINGO?	į	od) 3)				
Cooler Custody Seals:	0	0	10.2	15 M 021E			I	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	-	PA 80			TAT starts the	TAT starts the day recevied by the lab, if received by 4:30pm
Sample Identification	ication Matrix	Sampled Sampled	Depth Numb	TPH (E BTEX (Samp	Sample Comments
CHATE "	4-4.5' S	10/36/20 1300	4-4.5'	×				
	1							
				0				
Total 200.7 / 6010 Circle Method(s) a	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	_	RCRA 13PPM Texas 11 /	Al Sb As Ba Be (Cr Co Cu Fe	TI U	Ag SiO2 Na Sr Tl Sn U V Zn 1631/245.1/7470 /7471:	U V Zn 470 / 7471 · Hn
lice: Signature of this docu	ment and relinquishment o	f samples constitutes a valid	purchase order from clier	nt company to Xenco. its at	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard toward and acceptance of the contractors are constituted as a contractor of the contractors.	e standard torms and analiticat		G
service. Xenco will be liable (enco. A minimum charge	of \$75.00 will be applied to	Aminimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be	y responsibility for any lost f \$5 for each sample subm	ses or expenses incurred titted to Xenco, but not ana	of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	 s. It assigns standard terms and conditions are due to circumstances beyond the control enforced unless previously negotiated. 		
Relinquished by: (Signature)	signature)	Received by: (Signature)	ature) ,	Date/Time	Relinquished by: (Signature)		Received by: (Signature)	Date/Time
Jan 12		4	11/2	20 19:50	2			
		(4			

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 11.02.2020 04.50.00 PM

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Work Order #: 676718 Temperature Measuring device used : T_NM_007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		1	
#2 *Shipping container in good condition?		Yes	
#3 *Samples received on ice?		Yes	
#4 *Custody Seals intact on shipping conta	iner/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?)	Yes	
#6*Custody Seals Signed and dated?		Yes	
#7 *Chain of Custody present?		Yes	
#8 Any missing/extra samples?		No	
#9 Chain of Custody signed when relinquis	hed/ received?	Yes	
#10 Chain of Custody agrees with sample I	abels/matrix?	Yes	
#11 Container label(s) legible and intact?		Yes	
#12 Samples in proper container/ bottle?		Yes	Samples received in bulk conainers.
#13 Samples properly preserved?		Yes	
#14 Sample container(s) intact?		Yes	
#15 Sufficient sample amount for indicated	test(s)?	Yes	
#16 All samples received within hold time?		Yes	
#17 Subcontract of sample(s)?		No	
#18 Water VOC samples have zero headsp	pace?	N/A	

^{*} Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:		PH Device/Lot#:	
	Checklist completed by:	Cloe Clifton	Date: <u>11.03.2020</u>
	Checklist reviewed by:	Jessica Vramer	Date: 11 03 2020

Jessica Kramer

eurofins Environment Testing

Page 135 of 147

Certificate of Analysis Summary 676720

LT Environmental, Inc., Arvada, CO

Project Id: Contact:

Project Location:

034820029

NM

Joseph Hernandez

Project Name: North Brushy Draw 35-4

Date Received in Lab: Mon 11.02.2020 15:50 **Report Date:** 11.04.2020 12:59

Project Manager: Jessica Kramer

				110,0001.	e e	
Lab Id:	676720-001					
Field Id:	CH02 @ 6-6.5'					
Depth:	6-6.5 ft					
Matrix:	SOIL					
Sampled:	10.30.2020 13:25					
Extracted:	11.03.2020 14:07					
Analyzed:	11.03.2020 19:17					
Units/RL:	mg/kg RL					
	< 0.00200 0.00200					
	< 0.00200 0.00200					
	<0.00200 0.00200					
	< 0.00200 0.00200					
Extracted:	11.03.2020 13:00					
Analyzed:	11.03.2020 16:37					
Units/RL:	mg/kg RL					
	148 9.94					
Extracted:	11.03.2020 13:27					
Analyzed:	11.03.2020 20:44					
Units/RL:	mg/kg RL					
	<50.1 50.1					
	<50.1 50.1					
	<50.1 50.1		_			_
	<50.1 50.1					
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Analyzed:	Field Id: CH02 @ 6-6.5' Depth: 6-6.5 ft Matrix: SOIL Sampled: 10.30.2020 13:25 Extracted: 11.03.2020 19:17 Units/RL: mg/kg RL <0.00200	Field Id: Depth: 6-6.5 ft Matrix: SOIL Sampled: 10.30.2020 13:25 Extracted: 11.03.2020 14:07 Analyzed: 11.03.2020 19:17 Units/RL: mg/kg RL <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 Extracted: 11.03.2020 13:00 Analyzed: 11.03.2020 16:37 Units/RL: mg/kg RL 148 9.94 Extracted: 11.03.2020 13:27 Analyzed: 11.03.2020 13:27 Analyzed: 11.03.2020 20:44 Units/RL: mg/kg RL <50.1 50.1 <50.1 50.1 <50.1 50.1	Field Id: CH02 @ 6-6.5' Depth: 6-6.5 ft Matrix: SOIL Sampled: 10.30.2020 13:25 Extracted: 11.03.2020 19:17 Units/RL: mg/kg RL <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 <0.00200 0.00200 Extracted: 11.03.2020 13:00 Analyzed: 11.03.2020 16:37 Units/RL: mg/kg RL Extracted: 11.03.2020 13:27 Analyzed: 11.03.2020 13:27 Analyzed: 11.03.2020 20:44 Units/RL: mg/kg RL <0.50.1 50.1 <0.50.1 50.1 <0.50.1 50.1	Lab Id:	Lab Id: 676720-001

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jessica Weamer



Analytical Report 676720

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

North Brushy Draw 35-4 034820029 11.04.2020

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)



11.04.2020

Project Manager: Joseph Hernandez LT Environmental, Inc. 4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 676720

North Brushy Draw 35-4 Project Address: NM

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 676720. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 676720 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessica Kramer

Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Sample Cross Reference 676720

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH02 @ 6-6.5'	S	10.30.2020 13:25	6 - 6.5 ft	676720-001

Xenco

Environment Testing

CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: North Brushy Draw 35-4

 Project ID:
 034820029
 Report Date:
 11.04.2020

 Work Order Number(s):
 676720
 Date Received:
 11.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Environment Testing

Certificate of Analytical Results 676720

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: CH02 @ 6-6.5' Matrix: Soil

Date Received:11.02.2020 15:50

Lab Sample Id: 676720-001

Date Collected: 10.30.2020 13:25

Sample Depth: 6 - 6.5 ft

Analytical Method: Inorganic Anions by EPA 300

Prep Method: E300P

Tech: MAB

Analyst: MAB

Date Prep: 11.03.2020 13:00

% Moisture:

Seq Number: 3141306

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	148	9.94	mg/kg	11.03.2020 16:37		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech:

MAB

Analyst: CAC Seq Number: 3141297 Date Prep: 11.03.2020 13:27

% Moisture:

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	11.03.2020 20:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	11.03.2020 20:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	11.03.2020 20:44	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	11.03.2020 20:44	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	128	%	70-135	11.03.2020 20:44
o-Terphenyl	84-15-1	126	%	70-135	11.03.2020 20:44

Xenco

Certificate of Analytical Results 676720

LT Environmental, Inc., Arvada, CO

North Brushy Draw 35-4

Sample Id: CH02 @ 6-6.5' Matrix: Soil Date Received:11.02.2020 15:50

Lab Sample Id: 676720-001 Date Collected: 10.30.2020 13:25 Sample Depth: 6 - 6.5 ft

Prep Method: SW5035A

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Seq Number: 3141303

Analyst: MAB Date Prep: 11.03.2020 14:07

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	11.03.2020 19:17	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	11.03.2020 19:17	U	1
Surragata	Co	a Numbor	9/ Dogovory	Unite	Limita	Analysis Data	Flog	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.03.2020 19:17	
4-Bromofluorobenzene	460-00-4	88	%	70-130	11.03.2020 19:17	



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit. **ND** Not Detected.

RL Reporting Limit

MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample BLK Method Blank

BKS/LCS Blank Spike/Laboratory Control Sample BKSD/LCSD Blank Spike Duplicate/Laboratory Control Sample Duplicate

MD/SD Method Duplicate/Sample Duplicate MS Matrix Spike MSD: Matrix Spike Duplicate

- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

^{**} Surrogate recovered outside laboratory control limit.

QC Summary 676720

LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3141306

MB Sample Id: 7714455-1-BLK

E300P Prep Method:

Matrix: Solid Date Prep: 11.03.2020 LCS Sample Id: 7714455-1-BKS LCSD Sample Id: 7714455-1-BSD

Prep Method:

Prep Method:

%RPD

Limite

E300P

E300P

Units

LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date

Chloride <10.0 250 260 104 259 90-110 0 20 11.03.2020 15:10 104 mg/kg

Analytical Method: Inorganic Anions by EPA 300

Seq Number: 3141306 Matrix: Soil Date Prep: 11.03.2020

676707-001 S 676707-001 MS Sample Id: MSD Sample Id: 676707-001 SD Parent Sample Id:

Parent Spike MS MS MSD MSD Limits %RPD RPD Units Analysis **Parameter** Flag Result Amount Result %Rec %Rec Limit Date Result

11.03.2020 15:26 Chloride 606 200 796 95 806 100 90-110 1 20 mg/kg

Analytical Method: Inorganic Anions by EPA 300

3141306 Seq Number: Matrix: Soil Date Prep: 11.03.2020

MS

MS Sample Id: 676720-001 S MSD Sample Id: 676720-001 SD Parent Sample Id: 676720-001 MS

Spike **RPD Parent** MSD **MSD** Analysis Flag **Parameter** Result Result Limit Date Amount %Rec Result %Rec Chloride 107 20 11.03.2020 16:43 148 200 361 363 108 90-110 1 mg/kg

Analytical Method: TPH by SW8015 Mod

SW8015P Prep Method: 3141297 Matrix: Solid Seq Number: Date Prep: 11.03.2020

7714426-1-BLK LCS Sample Id: 7714426-1-BKS LCSD Sample Id: 7714426-1-BSD MB Sample Id:

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units Analysis Flag **Parameter** Result Limit Date Result Amount %Rec %Rec Result Gasoline Range Hydrocarbons (GRO) 11.03.2020 15:40 35 < 50.0 1000 1180 118 1130 113 70-135 4 mg/kg 11.03.2020 15:40 Diesel Range Organics (DRO) 70-135 4 35 < 50.0 1000 1250 125 1200 120 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Flag Date Flag %Rec 11.03.2020 15:40 1-Chlorooctane 122 130 126 70-135 % 11.03.2020 15:40 o-Terphenyl 117 120 118 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

Seq Number: 3141297 Matrix: Solid Date Prep: 11.03.2020

MB Sample Id: 7714426-1-BLK

MBUnits Analysis Flag **Parameter** Result Date

11.03.2020 15:20 Motor Oil Range Hydrocarbons (MRO) < 50.0 mg/kg

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / B $RPD = 200* \mid (C-E) \mid (C+E) \mid$ [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample = Parent Result = MS/LCS Result

= MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Flag

Flag

Seg Number:

Parent Sample Id:

MB Sample Id:

QC Summary 676720

LT Environmental, Inc.

North Brushy Draw 35-4

Analytical Method: TPH by SW8015 Mod

3141297

Matrix: Soil 676707-001 MS Sample Id: 676707-001 S

SW8015P Prep Method:

Date Prep: 11.03.2020 MSD Sample Id: 676707-001 SD

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.3 1010 1050 35 11.03.2020 16:41 1130 112 105 70-135 7 mg/kg 11.03.2020 16:41 1010 70-135 Diesel Range Organics (DRO) < 50.3 1150 114 1140 1 35 mg/kg 114

Analysis MS MS **MSD** Limits Units MSD **Surrogate** %Rec Flag Flag Date %Rec 11.03.2020 16:41 1-Chlorooctane 129 133 70-135 % 11.03.2020 16:41 o-Terphenyl 123 105 70-135 %

Analytical Method: BTEX by EPA 8021B

3141303 Seq Number:

7714462-1-BLK

Matrix: Solid

LCS Sample Id: 7714462-1-BKS

Prep Method:

SW5035A

Date Prep: 11.03.2020

LCSD Sample Id: 7714462-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date]
Benzene	< 0.00200	0.100	0.0975	98	0.0945	95	70-130	3	35	mg/kg	11.03.2020 15:44	
Toluene	< 0.00200	0.100	0.0952	95	0.0926	93	70-130	3	35	mg/kg	11.03.2020 15:44	
Ethylbenzene	< 0.00200	0.100	0.0880	88	0.0861	86	71-129	2	35	mg/kg	11.03.2020 15:44	
m,p-Xylenes	< 0.00400	0.200	0.178	89	0.173	87	70-135	3	35	mg/kg	11.03.2020 15:44	
o-Xylene	< 0.00200	0.100	0.0872	87	0.0851	85	71-133	2	35	mg/kg	11.03.2020 15:44	
Surrogate	MB	MB			LCS	LCSI			mits	Units	Analysis	

%Rec %Rec Flag %Rec 11.03.2020 15:44 1,4-Difluorobenzene 104 100 100 70-130 % % 11.03.2020 15:44 4-Bromofluorobenzene 88 85 85 70-130

Analytical Method: BTEX by EPA 8021B

Seg Number: 3141303 Parent Sample Id:

Matrix: Soil 676707-001 MS Sample Id: 676707-001 S

SW5035A Prep Method:

Date Prep: 11.03.2020 MSD Sample Id: 676707-001 SD

RPD **Parent** Spike MS MS MSD **MSD** Limits %RPD Units Analysis Flag **Parameter** Limit Date Result Amount Result %Rec %Rec Result 11.03.2020 16:29 < 0.00201 0.101 0.129 128 0.117 70-130 10 35 Benzene 117 mg/kg 11.03.2020 16:29 70-130 35 Toluene < 0.00201 0.101 0.123122 0.111 111 10 mg/kg Ethylbenzene < 0.00201 0.101 0.111 110 0.0997 71-129 11 35 11.03.2020 16:29 mg/kg 0.201 0.225 35 11.03.2020 16:29 m,p-Xylenes < 0.00402 112 0.200 100 70-135 12 mg/kg < 0.00201 0.101 0.109 108 0.0983 71-133 10 35 mg/kg 11.03.2020 16:29 o-Xylene 98

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Date Flag %Rec %Rec 11.03.2020 16:29 1,4-Difluorobenzene 101 99 70-130 % 11.03.2020 16:29 4-Bromofluorobenzene 86 85 70-130 %

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100*(C-A) / BRPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B]

Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result

= MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike AddedD = MSD/LCSD % Rec

3		Houston, TX (281) 240-420	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334			-
LABORATORIE		M (575-392-7550) Phoenix,A	Middlid, IA (1927) 1977 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)	ampa,FL (813-620-2000)	www.xenco.com Page_	of 1
Project Manager: Joseph Hernandez		Bill to: (if different)	Lynda Laumbach			
	ntal Inc.	Company Name		Program: UST/PST	T □RP □rownfields F□c	C ¶perfund ☐
Address: 3300 North A Street	Street	Address:		State of Project:]
e ZIP	9705	City, State ZIP:	Carlsbad, NM 88220	Reporting:Level II	Level III LET/UST TLR	РЦем
100		Email: jhernandez@lt	Email: hernandez@ltenv.com & abyers@ltenv.com	Deliverables: EDD	☐ ADaPT ☐	Other:
Project Name: North Brushy Draw 35-4	Draw 35-4	Turn Around		ANALYSIS REQUEST	Wo	Work Order Notes
ř		Routine				
		Rush:				
		Due Date:				
Sampler's Name: Allila byels)				
SAMPLE RECEIPT Ter	Temp Blank: (Yes) No	Wet Ice: Yes No	rs			
Temperature (°C):	The	Thermometer ID	d)			
Received Intact:	No 1	79	5 Mo			
1	NA	Correction Factor:	801 A 80		lab, i	lab, if received by 4:30pm
Sample Identification	Matrix Dat	e Time Depth	PH (EPA		San	Sample Comments
-			×			
CHO. 6 6.000	Actional					
		(2			
Total 200.7 / 6010 200.8 / 6020:		8RCRA 13PPM Texas 11 /	1 Al Sb As Ba Be B Cd Ca Cr Co RA Sb As Ba Be Cd Cr Co Cu Pb	o Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V b Mn Mo Ni Se Ag Tl U 1631/245.1/7470	K Se Ag SiO2 Na Sr TI : 1631 / 245.1	Na Sr TI Sn U V Zn 1631/245.1/7470/7471: Hg
lotice: Signature of this document and reling	quishment of samples constitu	es a valid purchase order from sume any responsibility for any		nctors. It assigns standard terms and cor sses are due to circumstances beyond the	nditions e control ed.	
of Xenco. A minimum charge of \$75.00 will be	Received by	Received by: (Signature)	Date/Time Relinquished	d by: (Signature) Rec	Received by: (Signature)	Date/Time
and the	1		1220 15250 2			
Carlos !	7		4			

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 11.02.2020 03.50.00 PM Air and Metal samples Acceptable Range: Ambient

Work Order #: 676720 Temperature Measuring device used : T_NM_007

Sa	ample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container	/ cooler? Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished	/ received? Yes	
#10 Chain of Custody agrees with sample labe	els/matrix? Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test	t(s)? Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace	e? N/A	

^{*} Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Checklist completed by:

Cloe Clifton

Checklist reviewed by:

Jessica Warmer

Date: 11.03.2020

Date: 11.03.2020

PH Device/Lot#:

Analyst:

<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 12034

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
WPX ENERGY PERMIAN, LLC	3500 One Williams Center	Tulsa, OK74172	246289	12034	C-141

OCD Reviewer	Condition
kcollins	Please file each incident separately. They should each have a fee of \$150.00. Please resubmit incident #NRM2019548894 by itself. Thank you.