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	NRM1935840155
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

WPIJ6-191106-C-1410

Responsible Party XTO Energy				OGRID	5380
Contact Name Kyle Littrell				Contact Te	elephone 432-221-7331
Contact ema	il Kyle_L	ittrell@xtoenergy.	com	Incident #	(assigned by OCD)
Contact mail 88220	ing address	522 W. Mermod	d, Carlsbad, NM	•	
			Location	of Release So	ource
Latitude 32.	277111		(NAD 83 in dec	Longitude cimal degrees to 5 decin	-103.935915 nal places)
Site Name	REMUDA S	SOUTH 25 STAT	Е 126Н	Site Type	Well Location
Date Release	Discovered	10/22/2019		API# (if app 126H)	olicable) 30-015-44392 (REMUDA SOUTH 25 STATE
Unit Letter	Section	Township	Range	Coun	ity
G	25	23S	29E	EDDY	
	Materia	(s) Released (Select al	I that apply and attach	Volume of I	justification for the volumes provided below)
Crude Oil		Volume Release			Volume Recovered (bbls) 0.0
⊠ Produced	Water	Volume Release			Volume Recovered (bbls) 8.0
		Is the concentrate produced water	tion of dissolved cl	hloride in the	Yes No
Condensa	te	Volume Release			Volume Recovered (bbls)
☐ Natural G	Natural Gas Volume Released (Mcf)				Volume Recovered (Mcf)
Other (de	Other (describe) Volume/Weight Released (provide units)			units)	Volume/Weight Recovered (provide units)
Cause of Relewas released remediation.	ease: Duriną to pad surfa	g drilling operation	ns a returns flow li k recovered 8 bbls.	ne was parted at a Additional third p	slip joint. Approximately 8.8 bbls of produced water arty resources have been retained to assist in the

Form C-141 Page 2

# State of New Mexico Oil Conservation Division

Incident ID	NRM1935840155
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible	party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	,
	IV/A	
☐ Yes ⊠ No		
If YES, was immediate no	notice given to the OCD? By whom? To whom?	When and by what means (phone, email, etc)?
N/A		
	Initial Respo	ngo
2	-	
The responsible	party must undertake the following actions immediately unless	they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	as been secured to protect human health and the er	vironment.
Released materials ha	ave been contained via the use of berms or dikes,	absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and man	aged appropriately.
If all the actions described	ed above have not been undertaken, explain why:	
There were no fluids rele	ased to be contained via the use of berms or dikes	abcarbent node or other containment devices
There were no maids teles	ased to be contained via the use of bertils of dikes	, absorbent paus, or other containment devices.
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence remedi	ation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial efforts	have been successfully completed or if the release occurred
		attach all information needed for closure evaluation.
I hereby certify that the informations all operators are	rmation given above is true and complete to the best of	my knowledge and understand that pursuant to OCD rules and as and perform corrective actions for releases which may endanger
public health or the environr	ment. The acceptance of a C-141 report by the OCD do	bes not relieve the operator of liability should their operations have
failed to adequately investig	gate and remediate contamination that pose a threat to g	oundwater, surface water, human health or the environment. In sibility for compliance with any other federal, state, or local laws
and/or regulations.	The C-141 report does not reneve the operator of respon	sibility for compliance with any other federal, state, or local laws
Printed Name: Kyle	Littrell	tle: SH&E Supervisor
Signature	Tellie Da	te:11/6/2019
email: Kyle Littrell@	extoenergy.com Tel	ephone:
	,	
OCD Only		
Received by: Ramon	na Marcus	. 12/24/2010
Teccived by.	Date	: <u>12/24/2019</u>

	Page 3 of 13.	9
Incident ID	NRM1935840155	
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?	<u>&gt;100</u> (ft bgs)			
Did this release impact groundwater or surface water?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> </ul>				

Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information

Topographic/Aerial maps

□ Laboratory data including chain of custody

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

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	Page 4 of 13	39
Incident ID	NRM1935840155	
District RP		
Facility ID		
Application ID		

Received by OCD: 1/18/2021 2:37:57 PM Form C-141 State of New Mexico Page 6

Oil Conservation Division

Page 5 of 139 Incident ID NRM1935840155 District RP Facility ID Application ID

# Closure

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

Closure Report Attachment Checklist: Each of the following i	tems must be in	cluded in the closure report.		
✓ A scaled site and sampling diagram as described in 19.15.29.11 NMAC				
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office	must be notified 2 days prior to final sampling)		
☐ Description of remediation activities				
I hereby certify that the information given above is true and comple and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and replace human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the conformation accordance with 19.15.29.13 NMAC including notification to the Conformation and re-vegetate the impacted surface area.	n release notificate C-141 report of a C-141 report of a C-141 report of a C-141 report of a C-141 responditions. The responditions that exist of CD when reclarity	ations and perform corrective actions for releases which by the OCD does not relieve the operator of liability nation that pose a threat to groundwater, surface water, does not relieve the operator of responsibility for onsible party acknowledges they must substantially sted prior to the release or their final land use in mation and re-vegetation are complete.		
Printed Name: Kyle Littrell	Title:	SH&E Supervisor		
Printed Name: Kyle Littrell  Signature:	Date:0_	1/18/2021		
email: Kyle Littrell@xtoenergy.com	Telephone:	432-221-7331		
OCD Only				
Received by:	Date: _			
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface party of compliance with any other federal, state, or local laws and/	water, human he			
Closure Approved by:	Date	:		
Printed Name:	Title	::		

District I
1625 N. French Dr., Hobbs, NM 88240
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NRM2000235975
District RP	
Facility ID	
Application ID	

# **Release Notification**

			Respo	onsible Party	Y17V0-191108-C-1410
Responsible Party XTO Energy				OGRID	5380
Contact Nam	e Kyle Li	ttrell		Contact Te	elephone 432-221-7331
Contact emai	l Kyle_L	ittrell@xtoenergy.	com	Incident #	(assigned by OCD)
Contact mail 88220	ing address	522 W. Mermo	d, Carlsbad, NM		
			Location	of Release So	ource
Latitude 32.	277111			Longitude	-103.935915
			(NAD 83 in deci	imal degrees to 5 decim	nal places)
Site Name	REMUDA	SOUTH 25 STA	ГЕ 126Н	Site Type	Well Location
Date Release	Discovered	10/25/2019		API# (if appl	dicable) 30-015-44392
Unit Letter	Section	Township	Range	Count	ity
G	25	23S	29E	EDDY	.,
	Material	(s) Released (Select a		Volume of Recalculations or specific	
Crude Oil	Material	(s) Released (Select a	Il that apply and attach o	calculations or specific	justification for the volumes provided below)
<del>_</del>		Volume Release			Volume Recovered (bbls) 0.0
N Produced	water	Volume Release			Volume Recovered (bbls) 8.5
		Is the concentrate produced water	tion of dissolved ch >10.000 mg/l?	loride in the	Yes No
Condensat	te	Volume Release			Volume Recovered (bbls)
Natural G	as	Volume Release	d (Mcf)		Volume Recovered (Mcf)
Other (des	Other (describe) Volume/Weight Released (provide units)			units)	Volume/Weight Recovered (provide units)
Cause of Rele was released ( remediation.	ase: During pad surface	l ng drilling operatice, a vacuum truck	ons a returns flow l	ine was parted at a s. Additional third	a slip joint. Approximately 10 bbls of produced water party resources have been retained to assist in the

Form C-141 Page 2

# State of New Mexico Oil Conservation Division

Incident ID	NRM2000235975
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the	responsible party consider this a major release?
19.15.29.7(A) NMAC?	N/A	
, ,		
Yes No		
If YES, was immediate no	otice given to the OCD? By whom?	To whom? When and by what means (phone, email, etc)?
N/A		
	Initia	al Response
The responsible	party must undertake the following actions imm	ediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human healt	h and the environment.
Released materials ha	ave been contained via the use of bern	s or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been remov	ed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, ex	plain why:
T1		
I here were no fluids relea	ased to be contained via the use of ber	ms or dikes, absorbent pads, or other containment devices.
Per 19.15.29.8 B. (4) NM	AC the responsible party may comme	ence remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If rem	edial efforts have been successfully completed or if the release occurred
		AC), please attach all information needed for closure evaluation.
I hereby certify that the informations all operators are	rmation given above is true and complete required to report and/or file certain release	to the best of my knowledge and understand that pursuant to OCD rules and se notifications and perform corrective actions for releases which may endanger
public health or the environr	ment. The acceptance of a C-141 report by	the OCD does not relieve the operator of liability should their operations have
addition, OCD acceptance of	ate and remediate contamination that pose f a C-141 report does not relieve the opera	a threat to groundwater, surface water, human health or the environment. In tor of responsibility for compliance with any other federal, state, or local laws
and/or regulations.		or to the factor of the factor
Printed Name: Kyle	Littrell	Title: SH&E Supervisor
15	Stant .	
Signature:	Fileno	Date:11/8/2019
email:Kyle_Littrell@	xtoenergy.com	Telephone:
och o I		
OCD Only		
Received by: Ramon	na Marcus	Date:01/02/2020
х.		

te of New Mexico Page 8 of 139

Incident ID NRM2000235975

Incident ID	NRM2000235975
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?	<u>&gt;100</u> (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No		
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data</li> <li>Data table of soil contaminant concentration data</li> <li>Depth to water determination</li> <li>Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>Boring or excavation logs</li> <li>Photographs including date and GIS information</li> </ul>	ls.		

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

Topographic/Aerial maps

☐ Laboratory data including chain of custody

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Incident ID	NRM2000235975	
District RP		
Facility ID		
Application ID		

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Application ID

# Closure

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

Closure Report Attachment Checklist: Each of the following is	tems must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rendaman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the confaccordance with 19.15.29.13 NMAC including notification to the O	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
Printed Name: Kyle Littrell Signature:	Date: 01/18/2021
email:Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date:
Printed Name:	

District I 1625 N. French Dr., Hobbs, NM 88240 District II 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	NRM2000237294
District RP	
Facility ID	
Application ID	

## **Release Notification**

Responsible Party

N949D-191108-C-1410

		Kesp	onsible Farty	
Responsible Party X	TO Energy		OGRID 5380	
Contact Name Kyle	Littrell		Contact Telephone	e 432-221-7331
Contact email Kyle_	Littrell@xtoenergy.	com	Incident # (assigned	l by OCD)
Contact mailing addres 88220	s 522 W. Mermo	d, Carlsbad, NM		
		Location	of Release Source	
Latitude <u>32.277111</u>		(NAD 83 in dec	Longitude <u>-103.</u> imal degrees to 5 decimal places	935915
Site Name REMUDA	SOUTH 25 STAT	TE 126H	Site Type Well	Location
Date Release Discovere	d 10/25/2019		API# (if applicable) 3	30-015-44392
	T			
Unit Letter Section	Township	Range	County	
G 25	238	29E	EDDY	
		Nature and	Volume of Relea	Se ion for the volumes provided below)
Crude Oil	Volume Release	ed (bbls) 0.0	Volur	me Recovered (bbls) 0.0
Produced Water	Volume Release	ed (bbls) 5.0	Volur	me Recovered (bbls) 4.0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		loride in the Y	es No
Condensate	Condensate Volume Released (bbls)		Volur	me Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)		Volur	ne Recovered (Mcf)
Other (describe)	Volume/Weight	Released (provide	units) Volur	me/Weight Recovered (provide units)
				nt. Approximately 5 bbls of produced water was es have been retained to assist in the

Form C-141 Page 2

# State of New Mexico Oil Conservation Division

Incident ID	NRM2000237294
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respon	nsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	N/A	
` ,		
Yes No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
N/A		
	Initial R	esponse
The responsible	party must undertake the following actions immediatel	ly unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explain	why:
There were no fluids release	ased to be contained via the use of berms or	dikes, absorbent pads, or other containment devices.
		ω.
		*
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence r	emediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have
		eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
and/or regulations.	Ta e-141 report does not reneve the operator of	responsionity for compitance with any outer receral, state, or focal laws
Printed Name: Kyle	Littrell	Title: SH&E Supervisor
1/1	2 Hours	
Signature	for the	Date:11-8-19
email:Kyle_Littrell@	0xtoenergy.com	Telephone:
OCD Only		
Received by: Ramona	ı Marcus	Date: 1/2/2020

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Incident ID	NRM2000237294	
District RP		
Facility ID		
Application ID		

## **Site Assessment/Characterization**

This information must be provided to the appropriate district office no later man 20 days after the release discovery date.			
What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</u> (ft bgs)		
Did this release impact groundwater or surface water?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No		
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No		
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ⊠ No		
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.			
Characterization Report Checklist: Each of the following items must be included in the report.			
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data			

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

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

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Incident ID	NRM2000237294	
District RP		
Facility ID		
Application ID		

Received by OCD: 1/18/2021 2:37:57 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

Incident ID NRM2000237294
District RP
Facility ID

Application ID

# Closure

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

Closure Report Attachment Checklist: Each of the following i	items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rendered human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.15.29.13 NMAC including noti	ations. The responsible party acknowledges they must substantially anditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete.
Printed Name: Kyle Littrell Signature:	Ittle: SH&E Supervisor
Signature:	Date:01/18/2021
email:Kyle_Littrell@xtoenergy.com	Telephone: 432-221-7331
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for regulations.
Closure Approved by:	Date:
Printed Name:	Title:

State of New Mexico

Incident ID NRM2000237294

Incident ID NRM2000237294

District RP
Facility ID
Application ID

# Closure

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

Closure Report Attachment Checklist: Each of the following i	itoms must ho inc	cluded in the closure report
Closure report Attachment Checking. Each of the following t	uems musi ve inc	nuueu in ine ciosure report.
A scaled site and sampling diagram as described in 19.15.29.1	11 NMAC	
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integ	grity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODG	C District office 1	must be notified 2 days prior to final sampling)
□ Description of remediation activities		
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rephuman health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification with 19.1	Fa C-141 report be mediate contaminal a C-141 report do ations. The responditions that exist DCD when reclamate	by the OCD does not relieve the operator of liability nation that pose a threat to groundwater, surface water, ones not relieve the operator of responsibility for onsible party acknowledges they must substantially sted prior to the release or their final land use in nation and re-vegetation are complete.
Printed Name: Kyle Littrell	1itle:	SH&E Supervisor
Printed Name: Kyle Littrell Signature:	Date: <u>01</u>	/18/2021
email:Kyle_Littrell@xtoenergy.com	Telephone:	432-221-7331
OCD Only		
Received by: Robert Hamlet	Date:	4/30/2021
Closure approval by the OCD does not relieve the responsible party remediate contamination that poses a threat to groundwater, surface		
party of compliance with any other federal, state, or local laws and/		
party of compliance with any other federal, state, or local laws and/	or regulations.	4/30/2021



WSP USA

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

January 19, 2021

District II New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

Re: Closure Request

Remuda South 25 State 126H

Incident Numbers: NRM1935840155, NRM2000235975, and NRM2000237294

**Eddy County, New Mexico** 

To Whom It May Concern:

WSP USA Inc. (WSP, formerly LT Environmental, Inc.), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Remuda South 25 State 126H (Site) in Unit G, Section 25, Township 23 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following three produced water release events at the Site. Based on field observations, excavation activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Numbers NRM1935840155, NRM2000235975, and NRM2000237294.

#### **RELEASE BACKGROUND**

On October 22, 2019, during drilling operations, a returns flow line was parted at a slip joint, resulting in the release of approximately 8.80 barrels (bbls) of produced water onto the well pad surface. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 8.0 bbls were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on Release Notification and Corrective Action Form C-141 (Form C-141) on November 6, 2019. The release was assigned Incident Number NRM1935840155.

On October 25, 2019, during drilling operations, a returns flow line was parted at a slip joint, resulting in the release of approximately 10 bbls of produced water onto the well pad surface. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 8.5 bbls were recovered. XTO reported the release to the NMOCD on a Form C-141 on November 8, 2019. The release was assigned Incident Number NRM2000235975.

On October 25, 2019, during drilling operations, a returns flow line was parted at a slip joint, resulting in the release of approximately 5.0 bbls of produced water onto the well pad surface. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 4.0 bbls



were recovered. XTO reported the release to the NMOCD on a Form C-141 on November 8, 2019. The release was assigned Incident Number NRM2000237294.

#### SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321717103561001, located approximately 4,005 feet north of the Site. The water well has a depth to groundwater of approximately 50 feet bgs. The total depth of the well could not be determined. Ground surface elevation at the water well location is 3,033 feet above mean seal level (AMSL), which is approximately 31 feet lower in elevation than the Site. The associated referenced well records are included in Attachment 1.

In an effort to confirm depth to water in the area, a borehole (C-04494) was advanced 0.29 miles southwest of the Site to a depth of 105 feet bgs via sonic drill rig. The location of the borehole is provided on Figure 1. A WSP geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Attachment 2. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. On January 8, 2021, after the 72-hour waiting period ended without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned utilizing hydrated bentonite chips.

The closest continuously flowing water or significant watercourse to the Site is a dry wash, located approximately 529 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). The Site receptors are identified on Figure 1.

#### **CLOSURE CRITERIA**

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg



• Chloride: 20,000 mg/kg

#### SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On February 10, 2020, WSP personnel visited the Site to evaluate the release extents based on information provided on the Form C-141s and visual observations. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS) unit and are presented on Figure 2. The release extents overlapped, and the final mapped extent shown on Figure 2 is the outer boundary of all releases combined. WSP personnel collected six preliminary soil samples (SS01 through SS06) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the releases. Soil was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS06 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. However, additional assessment activities were warranted to further confirm the absence of impacted soil within the subsurface. Photographic documentation was conducted during the Site visit. Photographic log is included in Attachment 3.

#### **DELINEATION SOIL SAMPLING ACTIVITIES**

Further delineation and remediation efforts were postponed due to ongoing drilling operations at the well pad near the release, resulting in activity restrictions at the Site due to safety concerns. Per 19.15.29.12.B.(1) NMAC, four extensions for submission of a remediation plan or closure report were requested and approved by the NMOCD. The initial extension was requested and approved on January 16, 2020, the second was approved April 29, 2020, the third was approved September 14, 2020, and the final extension was approved November 24, 2020, extending the deadline to January 20, 2021.

On September 21, 2020, during a brief break in drilling operations, WSP personnel returned to the Site to oversee additional soil assessment activities. Five potholes (PH01 through PH05) were advanced using a track-mounted backhoe to an approximate depth of 3 feet bgs at the SS02 through SS06 preliminary soil sample locations to confirm the absence of impacted soil. One delineation soil sample was collected from each pothole PH01 through PH05, from a depth of 3



feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach© chloride QuanTab© test strips, respectively. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 1.

Additionally, WSP collected four lateral delineation soil samples (SS07 through SS10) from a depth of 0.5 feet bgs around the release area, to confirm the lateral extent of the release. The potholes and delineation soil sample locations are depicted on Figure 3. The delineation soil samples were collected, handled, and analyzed as described above at Xenco in Carlsbad, New Mexico.

#### **EXCAVATION ACTIVITIES**

Based on observed staining and field screening results, WSP directed excavation activities to remove discolored soil in the area around preliminary soil sample SS01. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The final excavation measured approximately 200 square feet and was completed to a depth of 1-foot bgs. Following removal of impacted soil, LTE collected a 5-point composite soil sample from the floor of the excavation. The 5-point composite sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the sample by thoroughly mixing. One composite floor soil sample (FS01) was collected from the excavation at a depth of approximately 1-foot bgs. The excavation soil sample was collected, handled, and analyzed as described above. The excavation extent and excavation soil sample location are presented on Figure 4.

The excavation measured approximately 200 square feet in area. A total of approximately 7.5 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was backfilled immediately.

#### **ANALYTICAL RESULTS**

Laboratory analytical results for preliminary soil samples SS01 through SS06 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Laboratory analytical results for delineation soil samples PH01 through PH05 and SS07 through SS10 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and provide lateral and vertical delineation to below the most stringent Table 1 Closure Criteria.

Laboratory analytical results for excavation floor sample FS01 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.



Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

#### **CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address the October 22, 2019 and October 25, 2019, produced water releases. Laboratory analytical results for the preliminary, delineation, and excavation soil samples indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and no further remediation was required.

Based on laboratory analytical results compliant with the Closure Criteria and confirmed depth to groundwater greater than 105 feet bgs, XTO respectfully requests NFA for Incident Numbers NRM1935840155, NRM2000235975, and NRM2000237294.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

WSP USA Inc.

Kalei Jennings

Associate Consultant, Environmental Scientist

Ashley L. Ager, P.G.

Ashley L. Ager

Managing Director, Geologist

cc: Kyle Littrell, XTO

Kalli Jennings

Ryan Mann, New Mexico State Land Office

#### Attachments:

Figure 1 Site Location Map

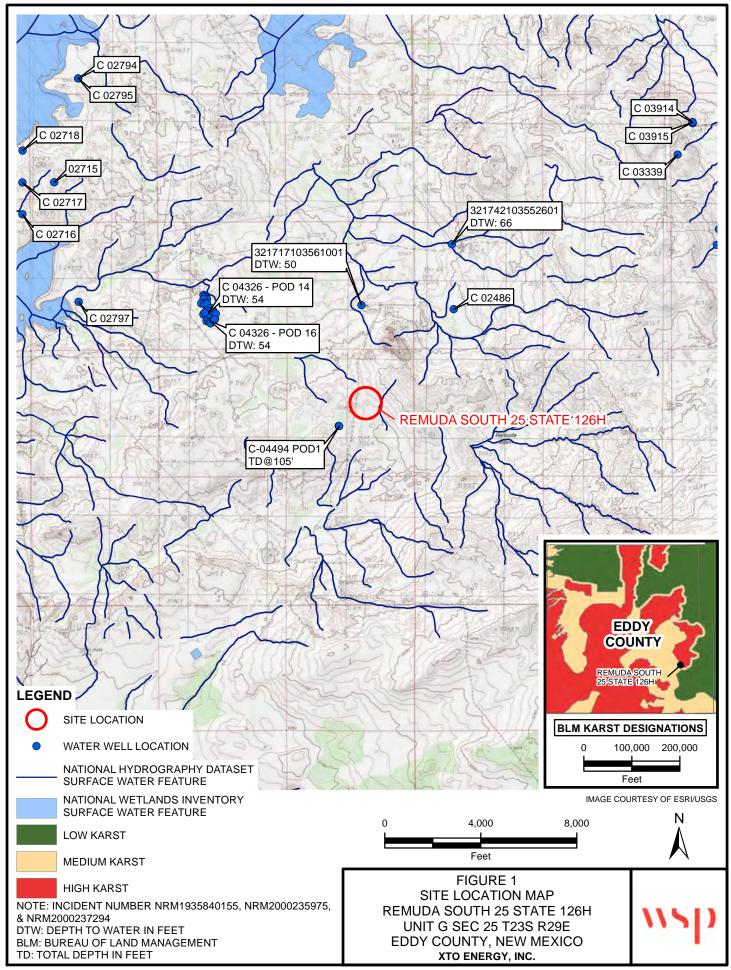
Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Figure 4 Excavation Soil Sample Locations

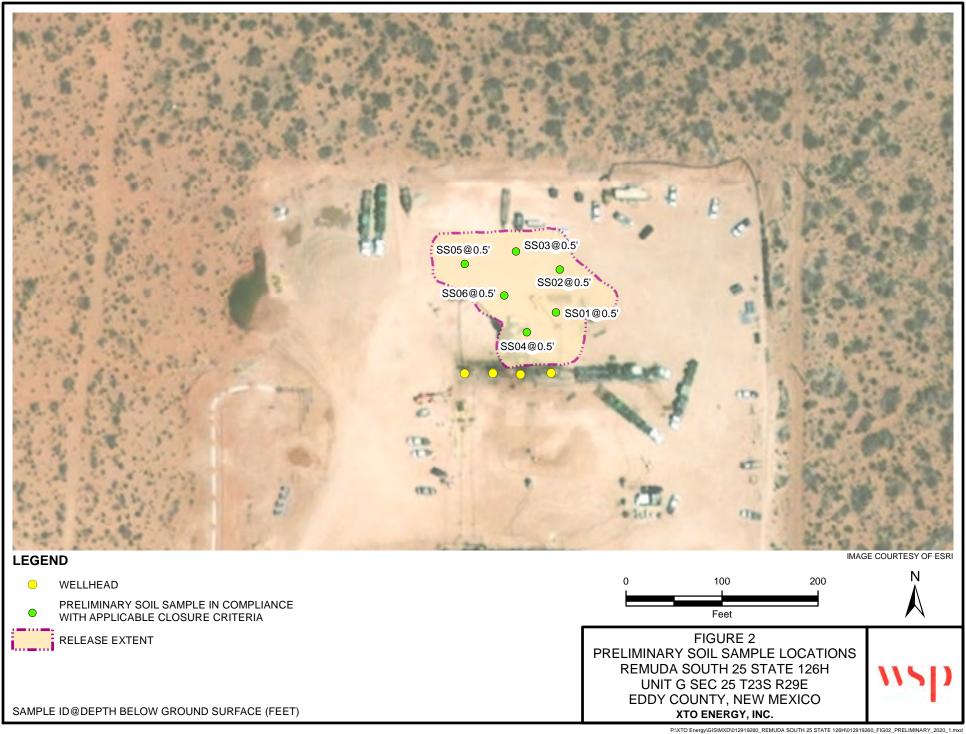
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records
Attachment 2 Lithologic/Soil Sampling Log

Attachment 3 Photographic Log



Attachment 4 Laboratory Analytical Reports





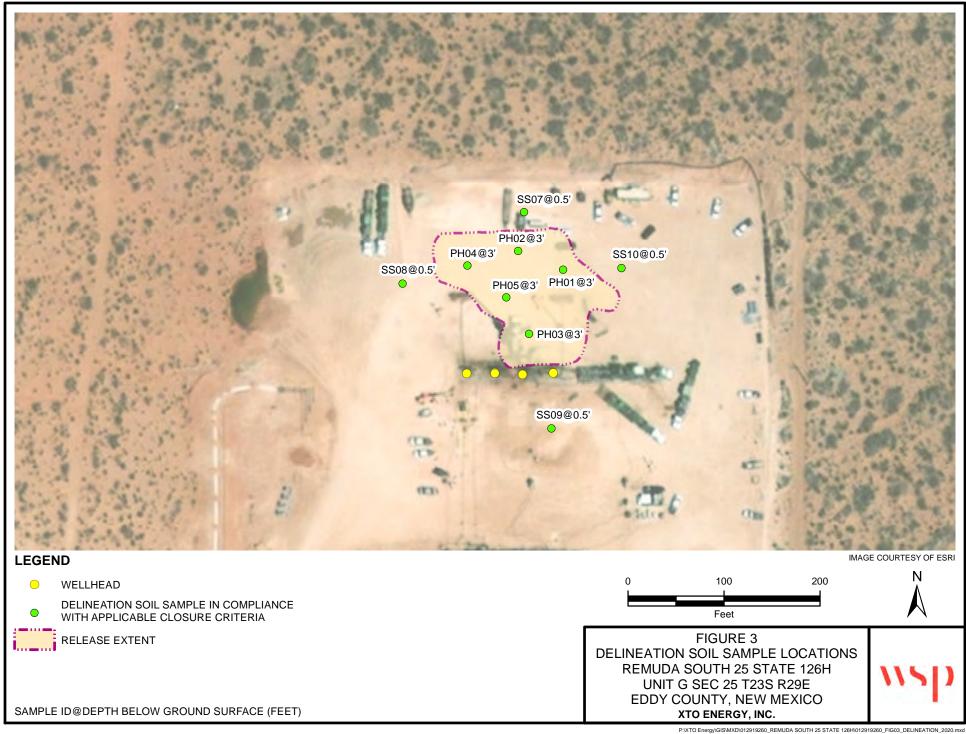




Table 1

#### Soil Analytical Results Remuda South 25 State 126H

#### Incident Numbers: NRM1935840155, NRM2000235975, and NRM2000237294

**Eddy County, New Mexico** 

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clos	ure Criteria (NMAC 1	9.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Surface Samples										
SS01	02/10/2020	0.5	< 0.000182	< 0.000182	83.0	<50.1	< 50.1	83.0	83.0	14,700
SS02	02/10/2020	0.5	< 0.00201	< 0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	4,770
SS03	02/10/2020	0.5	< 0.00201	< 0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	4,030
SS04	02/10/2020	0.5	< 0.00201	< 0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	4,580
SS05	02/10/2020	0.5	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	4,380
SS06	02/10/2020	0.5	< 0.00200	< 0.00200	76.0	<50.2	<50.2	76.0	76.0	1,950
Delineation Samples										
PH01	09/21/2020	3	< 0.00200	< 0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	30.5
PH02	09/21/2020	3	< 0.00199	< 0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	<10.0
PH03	09/21/2020	3	< 0.00200	< 0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	416
PH04	09/21/2020	3	< 0.00201	< 0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	<10.0
PH05	09/21/2020	3	< 0.00198	< 0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	20.7
SS07	09/21/2020	0.5	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	96.2
SS08	09/22/2020	0.5	< 0.00200	< 0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	205
SS09	09/22/2020	0.5	< 0.00200	< 0.00200	57.1	<49.9	<49.9	57.1	57.1	494
SS10	09/21/2020	0.5	< 0.00200	< 0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	480
Excavation Samples										
FS01	09/21/2020	1	< 0.00198	< 0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	217

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard



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#### USGS 321717103561001 23S.29E.24.41321

Eddy County, New Mexico

Latitude 32°17'17", Longitude 103°56'10" NAD27 Land-surface elevation 3,034 feet above NAVD88

This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### **Output formats**

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	ab-separated data
	iraph of data
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Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measul
1983-02-02		D	72019	52.17				U	J	
1987-10-14		D	72019	50.54				L	J	
1992-11-16		D	72019	54.14				S	5	
2003-01-29		D	72019	50.26				9	USG:	5

#### Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	72019	Depth to water level, feet below land surface
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	Α	Reported by another government agency (do not use "A" if reported by owner, use "O").
Source of measurement	U	Source is unknown.
Water-level approval status	А	Approved for publication Processing and review completed.

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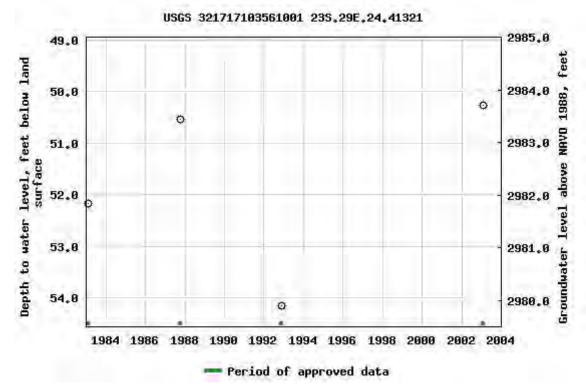
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### USGS 321717103561001 23S.29E.24.41321

Available data for this site	Groundwater:	Field measurements	~	GO ]	
Eddy County, New Mexico					
Hydrologic Unit Code 1306	0011				
Latitude 32°17'17", Longi	tude 103°5	6'10" NAD27			
Land-surface elevation 3,0	34 feet abo	ve NAVD88			
This well is completed in t	ne Rustler F	formation (312RS	LR)	local	aquifer.

### **Output formats**

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Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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• 321742103552601

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#### USGS 321742103552601 23S.30E.19.123421

Eddy County, New Mexico

Latitude 32°17'42", Longitude 103°55'26" NAD27

Land-surface elevation 3,034 feet above NAVD88

The depth of the well is 100 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### **Output formats**

Table of data	
Tab-separated data	
<u>Graph of data</u>	
Reselect period	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1959-02-06		D	72019	78.10			Р	U		
1959-04-07		D	72019	69.30				U		
1972-09-20		D	72019	68.75				U		
1975-12-09		D	72019	68.99				U		
1976-01-15		D	72019	70.10				U		
1977-01-19		D	72019	68.40				U		
1987-10-14		D	72019	67.32				U		
1993-05-06		D	72019	66.10				S		

#### Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	72019	Depth to water level, feet below land surface
Status		The reported water-level measurement represents a static level
Status	Р	Water level was affected by pumping at the time of the measurement
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined

Section	Code	Description
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

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321742103552601

#### Minimum number of levels = 1

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#### USGS 321742103552601 23S.30E.19.123421

Available data for this site Groundwater: Field measurements GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°17'42", Longitude 103°55'26" NAD27

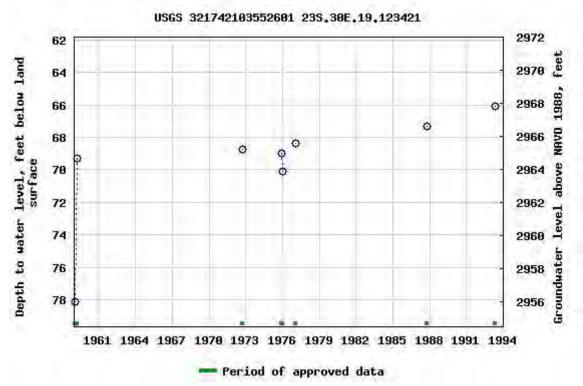
Land-surface elevation 3,034 feet above NAVD88

The depth of the well is 100 feet below land surface.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

**Output formats** 

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Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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## New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**  Q64 Q16 Q4 Sec Tws Rng 29E X

C 04326 POD14 23S NA 23

598191 3572765

**Driller License: Driller Company:** 1664 **Driller Name:** CAIN, SHAWN N.NJR.L.NER

08/28/2019

05/11/2019

**Drill Finish Date:** 

05/11/2019

CASCADE DRILLING, LP

**Drill Start Date:** 

2.06

PCW Rcv Date:

Plug Date: Source:

Shallow

Log File Date: **Pump Type:** 

**Estimated Yield:** 

**Casing Size:** 

Pipe Discharge Size: Depth Well:

58 feet

Depth Water:

54 feet

Water Bearing Stratifications:

Top **Bottom Description** 

45

48

Shale/Mudstone/Siltstone

**Casing Perforations:** 

Top **Bottom** 

58

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

1/18/21 8:51 AM

POINT OF DIVERSION SUMMARY



## New Mexico Office of the State Engineer

# **Point of Diversion Summary**

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

X Y

NA C 04326 POD16

2 4 3 23 23S 29E

3572664

Driller License: 1664 Driller Company: CASCADE DRILLING, LP

**Driller Name:** CAIN, SHAWN N.NJR.L.NER

**Drill Start Date:** 05/14/2019

Drill Finish Date:

05/14/2019 Plug Date:

598209

Plug Date:

**Log File Date:** 

08/28/2019

2.07

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

**Estimated Yield:** 

**Casing Size:** 

Depth Well:

64 feet **Depth Water:** 

54 feet

Water Bearing Stratifications:

Top Bottom Description

60 Limestone/Dolomite/Chalk

**Casing Perforations:** 

Top Bottom

52

54 64

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

1/18/21 8:52 AM

POINT OF DIVERSION SUMMARY

Lat/Long:	LITH	) OLOG	5 Carl	08 West S sbad, Ne	w Mexico	88220		BH or MW Name: BH01 (POD 1, C-4494) Site Name: Remuda Fra RP or Incident Number: WSP Job Number: Logged By: BB, LD, FS Hole Diameter:	) Auger		
32.274194,-1	03.939575			N/A	,			6.25", 4.25"		Total Depth: 56.1 Depth to Water: DRY	
Backfill or W											
Lithology and	description	s only, r	no field scree	ning. Bore	hole backf		Irill cuttings	from 56.1' to 10', hydrate	d bentonite	from 10' to surface.	1
Moisture Content Chloride	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	S SN		Lithology/F			Backfill / Well Completion
				]     	1 -	SP-SC		ND w/ clay, dry browned, 10% clay, some			surface
				- - - - - -	10	CCHE	con gra	ALICHE, dry, light bi solidated, some sub vel, very silty, gradat odor.	o-round c	aliche pebble and	Hydrated Bentonite Chips from 10' to surface
				- - -	20	CI -S		erately consolidated		own low	Hydrated E
				- - -	<del> </del>  -  -  -	OL-3	plas ang	eticity, cohesive, wel ular caliche pebbles odor.	II consolic	dated, trace sub-	
				- - - -	30		gra	ight brown sub-angurel with dissolution f	features (	1-3mm).	56.1' to 10'
				- - - -	40	LS	39'-48', I wel mm	, air rotary, hole diar DOLOMITIC LIMES consolidated, some ), sharp transition, li n, no odor.	TONE, dr e dissolut	ry, tan-light brown, ion features (1-3	Drill Cuttings backfilled from 56.1' to
				-	50	DOLO	12/02/2 48'-56.1 con	020: air rotary refusa 020: Continue drilling DOLOMITE, dry, o solidated, thin dark o odor.	g @ 48'b off white, i	gs moderately	Drill Cuttin
				-	60		TD @ 56	6.1 feet bgs.			

7	11	1	)	Ca	508 West risted No	N MINO	o RELIX		BH or PH Name:  BHO I (cont)  Date:  1-5-2021  Site Name: Remeda N 25 State  RP or Incident Number:  WSP Job Number: TE92417269, TE012419 195, TE019				
Lat/Lo	uu.	LITH	OLOG	SIC / SOI			G		Logged By: BB F.S	Method: SoniZ			
32	, 274	94,-10	3.93	9575	Field Scr	4			Hole Diameter:	Total Depth: /55			
Comm	ients: 15	one hal	e b	role fill	ed w/	dr. V	cuth	ns An	m 105'- 10', hydr	and be now it chips from			
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	anty, A	THE SCHEALY	/Remarks			
					1	51	DOL						
					1	52							
					-	53							
						54							
					1	55			A 50'				
					1	100	, appeal of	1/5/	£ 55'				
					1	_ 56				10. 1.10			
					1	57		dry, lishtgray-gray,					
					1	58		,	well consolidated,	Some Calcin			
					1	59		4	Entures (Zmm) wij	(LImm), some dissolution			
				+	60			Crystalling trace	the talling				
			- 1		Ŧ	61			Staining within disse	orange oxidation olution feetures, no stand			
					1				10 oder				
					1	62		62, bi	lowific limestone	(ourse regstalling stringer(2cm),			
					1	64		63-65	Abundant Calling	crystalline winsklam			
					+	65		63-65	Pale cours - con	y, pooly ransolidered.			
П					Ŧ	66	H-5	65'-69'	MUDSTONE NO	ist, reddish brown,			
					1			Pour	ly impolidered, 1	righ alectrity relieve			
					+	67		~	10 TO ME CONTENT	chillian Continue the			
					Ŧ	68		7-	in granding in	nottling, no stale,			
					‡	69		,	ou-r.				
				+	70	SYP	61-81	CARJAN MY	hydritt, dry, greensh				
				Ŧ	71		5	ray, some pala yel	In, well ensolidered,				
					‡			Ti	of crystalling, 20%	o anhy drite, nostan,			
					+	72			- w.er.				
					1	73							
1					1	74							
					Ţ	75							

115	LITHOLOGIC / SOI				USA teveni S v Mexico	80220	BH or PH Name:    State
at/Long:	LITHO	LOGIC	C / SOI	SAMPL Field Screen		G	Logged By. RB, FS. Method: 5-1/2  Hole Diameter: (" Total Depth: 1/3 5/
32.27411	64,-10	3.934	1575		12 4	111 5	ensening. Burchole backfilled with diff cuftings from - 10'- surface.
Content Chloride (ppm)	Vapor (ppm)	Staining y	Sample #	Sample Depth (ft bgs)		×	Lithology/Remarks
					77 78 78 79 80 81 82 83 84 85 86 87 90 91 92 93 94 94 95 96 97 98	GYP ML-S	81'-98' Mudstone, moist, dark reddish brown, modernely consolidated, high plestity, whesive, true course crystallim sypsum inclusing no stain, no other.  85'-86,5' greenish-gray well consolidated course crystalline sypsum/ enhydrine stringer. 90'-98' some time stain brown send.  97', dark stay-gray sypsum stringer (4cm).  98'-955' GYPSUM, dark stay-stay, some brown, dry, well consolidated, fine-lorse crystalline, no stain, no odor.  95.5'-105' saidy SILTSTONE, moist, brown, some stay-dork string, porty consolidated attained of the stringer.

Table	ived i	\ I	)	1/10/		PUSA		71	BH or PH Nam BH OI		Date:	-5 -2021	oj .
	Fit West Discover Floor Contract Seas Marrier (#220)								Site Name: K	ermedo N	125 5	State	
		Ų				in Marin			RP or Incident				
		LITU	01.00	10 / 50	IL SAMPI	INCLO	vc.		Logged By: 8	101		E012914195\$E9791 1: Soni c	403
Lat/Lo	ing:	Lin	JLOG	10 / 50	Field Scr		,,,	_	Hole Diameter:	B, FS	Total D	epth: //	
32.	ng: 274   91 nents: 1/2	4-107.	939	575	1/4	A			1	6		105	
Comm	Prom	Thology	des	crist	ons en	4,00	field	School	1.45 Bore	toke brike	filled u	with drill out	200
Moisture		Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)		nips to	7V- 3	Lithology	/Remarks	s	
						101	ML-S	/			4.0		
						102		102,	thin Klmm	) lamber	red 51	coklaray well	
						103			onsolid che	1 shale	stringe	ok/gray well or (4cm think)	
					1							, , , , ,	
					1	103							
					-	104			TDC 10	5 bss.			
					-	105							
						106	TOEIOS						
					-	107							
						108							
					1	109							
					1								
					1	110							
					1	112							
					1	113							
					1	114							
					‡	115							
					1 1	116							
					1	117							
					ĮŦ	118							
					Ī	119							
					‡	120							
					‡								
					+	121							
	- 1				+	122							
					1	123							
					‡	124							
					+	125							

WSP USA  508 West Stevens Street Carlsbad, New Mexico 88220  LITHOLOGIC / SOIL SAMPLING LOG									BH or PH Name: PH01 Site Name: Incident Number: LTE Job Number:	Remuda S NRM1935		00235975, and NRM200
		LITH	OLOG	IC / SOII			G		Logged By Will Matl	ner	Method:	Backhoe
Lat/Lo	ong:				Field Scre Chloride,				Hole Diameter:		Total Depth:	
Comm	nents:				·				•		<u></u>	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol			_ithology/F	Remarks	
	2,004	0.3	Z		1'	1 2			ne grian, poorly g s Above (SAA)	raded, Br/	Rd, some silt,	, no stain, no odor
	<168	0.4	N	PH01	3' _	3		SAA				
					- - - - - -	5 6						
					- - - - - -	8						
					-	10						

	\\'		)		508 West S Isbad, Ne			BH or PH Name: PH02 Site Name: Incident Number: LTE Job Number:		840155, NRM2			
Lat/Lo	na.	LIIH	JLUG	SIC / SOIL	Field Scre		G		Logged By Will Math Hole Diameter:	ier	Method: Total Depth:	Backh	oe
					Chloride,				o.o Diamoter.		. otal Doptii.		
Comm	nents:												
Moisture Content									L	_ithology/F	Remarks		
MC CC	2,004 1,752 <168	0.6 0.1 0.2	Str	PH02	(ft bgs)	1 2 3 4 5 6 7 8 9 10 11	SSU		e grian, poorly g	raded, Br/	Rd, some si	ilt, no stain,	, no odor
			11 12										

	\\'		)	5 Car SIC / SOIL	508 West S Isbad, Ne		BH or PH Name: PH03 Site Name: Incident Number: LTE Job Number: Logged By Will Math			2000235975, a Backho		
Lat/Lo	ng:			, 5011	Field Scre			Hole Diameter:		Total Depth:	Dackiic	
					Chloride,							
Comm	nents:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	Lithology/Remarks					
Moi Con	1,752 1,640 509	o.1 0.3 0.1	Sta	Sam	(ft bgs)	(ft bgs)  0  1  2  3  4  5  6  7  8  9  10	USCS/Rock Symbol	e grian, poorly g			ilt, no stain,	no odor
					-	11						

WSP USA  508 West Stevens Street Carisbad, New Mexico 88220  LITHOLOGIC / SOIL SAMPLING LOG  Lat/Long: Field Screening: Chloride, PID  Comments:									BH or PH Name: PH04 Site Name: Incident Number: LTE Job Number: Logged By Will Math			00235975, and NRM200 Backhoe
Comm	nents:				Officiac,	110					1	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		1	_ithology/F	Remarks	
	207	0.4	Z		1' _	1 2			ne grian, poorly g s Above (SAA)	raded, Br/	Rd, some silt,	no stain, no odor
	<168	0.3	Z	PH04	3' -	3 4 5 6 7 8 9 10 11 12		SAA				

WSP USA  508 West Stevens Street Carlsbad, New Mexico 88220  LITHOLOGIC / SOIL SAMPLING LOG  Lat/Long: Field Screening: Chloride, PID									BH or PH Name: PH05 Site Name: Incident Number: LTE Job Number: Logged By Will Matl			00235975, and NRM200 Backhoe
Comm	nents:				Chloride,	PID					]	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bas)	USCS/Rock Symbol		ı	Lithology/F	Remarks	
	207 257	0.6	N		1'	1 2			ne grian, poorly g s Above (SAA)	ıraded, Br/	Rd, some silt,	no stain, no odor
	<168	0.2	ZZ	PH05	3' _	3 4 5 6 7 8 9 10 11 12		SAA	S ADOVE (SAA)			



	PHOTOGRAPHIC LOG	
XTO Energy	Remuda South 25 State 126H	NRM1935840155
	Eddy County, New Mexico	NRM2000235975
		NRM2000237294

	Photo No.	Date							
	1	October 22, 2019	♥ WGS84 32.27703,	-103.93566	∧ <sup>n</sup> <sub>a10n</sub>	3064	∆ <b>7</b> _19	NW304	
I	View of rel	lease on pad.	Tries OZ.Z. 700,	100.00000	A 1210ft	0004	119	1111004	
			-						
			T. T	Law Company of the Co		STATE OF STREET			
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			the transfer of						
					7	Sing Manual	- 1		
				The state of the s			-		
			Parket State			1	-		
			4 04 0	A CONTRA	1	-			
			220ct19 11:13 Remuda South	25 #126H	THE STATE OF	10 A	1		
			Loving, NM 88255, United Stat	les @ 22-Oct-19 11;13:19					I

Photo No.	Date	Date	
2	February 10, 2020	ry 10, 2020	
View of staining	g remaining on pad.	ing on pad.	



	PHOTOGRAPHIC LOG	
XTO Energy	Remuda South 25 State 126H	NRM1935840155
	Eddy County, New Mexico	NRM2000235975
	,,,,	NRM2000237294

September 21, 2020  View of excavation facing East			Doto	Dhata Na
View of excavation facing East			Date	Photo No.
View of excavation facing East				3
	And a little and a		2020	3
			ation facing East	View of excava
		And the second		
				ı
			-	

Photo No.	Date
4	September 22,
4	2020
T7' C1	1 (*11 1

View of backfill on pad.



## **Analytical Report 652122**

for

LT Environmental, Inc.

Project Manager: Dan Moir Remuda South 25 #126H

13-FEB-20

Collected By: Client



#### 1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)



13-FEB-20

Project Manager: **Dan Moir LT Environmental, Inc.**4600 W. 60th Avenue
Arvada, CO 80003

Reference: XENCO Report No(s): 652122

Remuda South 25 #126H

Project Address:

#### Dan Moir:

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 XENCO Report Number(s) 652122. 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 XENCO Laboratories. 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. 652122 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 XENCO Laboratories 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

Jessica Vermer

Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America



## **Sample Cross Reference 652122**

### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
SS01	S	02-10-20 12:25	0.5 ft	652122-001
SS02	S	02-10-20 12:30	0.5 ft	652122-002
SS03	S	02-10-20 12:35	0.5 ft	652122-003
SS04	S	02-10-20 12:40	0.5 ft	652122-004
SS05	S	02-10-20 12:45	0.5 ft	652122-005
SS06	S	02-10-20 13:05	0.5 ft	652122-006

#### **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: Remuda South 25 #126H

Project ID: Report Date: 13-FEB-20 Work Order Number(s): 652122 Date Received: 02/12/2020

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3116351 BTEX by EPA 8021B

Soil samples were not received in Terracore kits and therefore were prepared by method 5030.



Dan Moir

Certificate of Analysis Summary 652122

LT Environmental, Inc., Arvada, CO

Project Name: Remuda South 25 #126H

**Date Received in Lab:** Wed Feb-12-20 11:57 am

**Report Date:** 13-FEB-20 **Project Manager:** Jessica Kramer

Project Id: Contact:

**Project Location:** 

					1						1			
	Lab Id:	652122-0	001	652122-	002	652122-	003	652122-	004	652122-0	005	652122-0	006	
Analysis Requested	Field Id:	SS01		SS02		SS03		SS04		SS05		SS06		
Anaiysis Requesieu	Depth:	0.5- ft	:	0.5- f	t	0.5- f	t	0.5- ft		0.5- ft		0.5- f	t	
	Matrix:	SOIL		SOIL	,	SOIL	,	SOIL	,	SOIL		SOIL		
	Sampled:	Feb-10-20	12:25	Feb-10-20	12:30	Feb-10-20 12:35		Feb-10-20 12:40		Feb-10-20 12:45		Feb-10-20 13:05		
BTEX by EPA 8021B	Extracted:	Feb-12-20	12:30	Feb-12-20	12:30	Feb-12-20	12:30	Feb-12-20	12:30	Feb-12-20	12:30	Feb-12-20 12:30		
	Analyzed:	Feb-12-20	16:46	Feb-12-20	17:06	Feb-12-20	Feb-12-20 18:08		Feb-12-20 18:28		Feb-12-20 18:48		Feb-12-20 19:09	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene	·	< 0.000182	0.000182	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	
Toluene		< 0.000182	0.000182	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	
Ethylbenzene		< 0.000182	0.000182	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	
m,p-Xylenes		< 0.000364	0.000364	< 0.00402	0.00402	< 0.00402	0.00402	< 0.00402	0.00402	< 0.00404	0.00404	< 0.00401	0.00401	
o-Xylene		< 0.000182	0.000182	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	
Total Xylenes		< 0.000182	0.000182	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	
Total BTEX		< 0.000182	0.000182	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00201	0.00201	< 0.00202	0.00202	< 0.00200	0.00200	
Chloride by EPA 300	Extracted:	Feb-12-20	12:30	Feb-12-20 12:30 Feb-12-20 12:		12:30	Feb-12-20 12:30		Feb-12-20 12:30		Feb-12-20 12:30			
	Analyzed:	Feb-12-20	14:15	Feb-12-20 14:21		Feb-12-20 14:27		Feb-12-20 14:32		Feb-12-20 14:38		Feb-12-20 14:44		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		14700	504	4770	503	4030	499	4580	497	4380	502	1950	200	
TPH by SW8015 Mod	Extracted:	Feb-12-20	13:00	Feb-12-20	13:00	Feb-12-20	13:00	Feb-12-20	13:00	Feb-12-20	13:00	Feb-12-20	13:00	
	Analyzed:	Feb-12-20	13:35	Feb-12-20	13:55	Feb-12-20	14:15	Feb-12-20	14:15	Feb-12-20	14:35	Feb-12-20	14:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	< 50.3	50.3	< 50.1	50.1	< 50.2	50.2	< 50.0	50.0	< 50.2	50.2	
Diesel Range Organics (DRO)		83.0	50.1	< 50.3	50.3	< 50.1	50.1	< 50.2	50.2	< 50.0	50.0	76.0	50.2	
Motor Oil Range Hydrocarbons (MRO)		< 50.1	50.1	<50.3	50.3	< 50.1	50.1	< 50.2	50.2	< 50.0	50.0	<50.2	50.2	
Total GRO-DRO		83.0	50.1	< 50.3	50.3	< 50.1	50.1	< 50.2	50.2	< 50.0	50.0	76.0	50.2	
Total TPH		83.0	50.1	< 50.3	50.3	< 50.1	50.1	< 50.2	50.2	< 50.0	50.0	76.0	50.2	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Version: 1.%

Jessica Kramer
Project Assistant



#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS01 Matrix:

Matrix: Soil
Date Collected: 02.10.20 12.25

Date Received:02.12.20 11.57

Date Collected: 02.10.20 12.25

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Tech: MAB

Analyst: MAB

Lab Sample Id: 652122-001

Date Prep: 02.12.20 12.30

Basis:

Wet Weight

Seq Number: 3116355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	14700	504	mg/kg	02.12.20 14.15		50

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: D

Analyst:

DTH DTH

Date Prep: 02.12.20 13.00

Basis: V

Wet Weight

				Units	Analysis Date	Flag	Dil
PHC610	< 50.1	50.1		mg/kg	02.12.20 13.35	U	1
C10C28DRO	83.0	50.1		mg/kg	02.12.20 13.35		1
PHCG2835	< 50.1	50.1		mg/kg	02.12.20 13.35	U	1
PHC628	83.0	50.1		mg/kg	02.12.20 13.35		1
PHC635	83.0	50.1		mg/kg	02.12.20 13.35		1
	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	111-85-3	93	%	70-135	02.12.20 13.35		
	84-15-1	99	%	70-135	02.12.20 13.35		
	C10C28DRO PHCG2835 PHC628	C10C28DRO 83.0 PHCG2835 <50.1 PHC628 83.0 PHC635 83.0 Cas Number 111-85-3	C10C28DRO 83.0 50.1 PHCG2835 <50.1 50.1 PHC628 83.0 50.1 PHC635 83.0 50.1 PHC635 83.0 50.1  Cas Number Recovery 1111-85-3 93	C10C28DRO 83.0 50.1 PHCG2835 <50.1 50.1 PHC628 83.0 50.1 PHC635 83.0 50.1 PHC635 83.0 50.1  Cas Number Recovery Units 111-85-3 93 %	C10C28DRO 83.0 50.1 mg/kg PHCG2835 <50.1 50.1 mg/kg PHC628 83.0 50.1 mg/kg PHC635 83.0 50.1 mg/kg PHC635 83.0 50.1 mg/kg  Cas Number % Recovery Units Limits 111-85-3 93 % 70-135	C10C28DRO         83.0         50.1         mg/kg         02.12.20 13.35           PHCG2835         <50.1	C10C28DRO 83.0 50.1 mg/kg 02.12.20 13.35 PHCG2835 <50.1 50.1 mg/kg 02.12.20 13.35 U PHC628 83.0 50.1 mg/kg 02.12.20 13.35 PHC635 83.0 50.1 mg/kg 02.12.20 13.35 PHC635 83.0 50.1 mg/kg 02.12.20 13.35  Cas Number Recovery Units Limits Analysis Date Flag 111-85-3 93 % 70-135 02.12.20 13.35



#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

02.12.20 12.30

Basis:

Wet Weight

Sample Id: SS01 Matrix: Soil Date Received:02.12.20 11.57

Lab Sample Id: 652122-001 Date Collected: 02.10.20 12.25 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Date Prep:

MAB % Moisture:

Seq Number: 3116351

MAB

Tech:

Analyst:

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.000182	0.000182		mg/kg	02.12.20 16.46	U	1
Toluene	108-88-3	< 0.000182	0.000182		mg/kg	02.12.20 16.46	U	1
Ethylbenzene	100-41-4	< 0.000182	0.000182		mg/kg	02.12.20 16.46	U	1
m,p-Xylenes	179601-23-1	< 0.000364	0.000364		mg/kg	02.12.20 16.46	U	1
o-Xylene	95-47-6	< 0.000182	0.000182		mg/kg	02.12.20 16.46	U	1
Total Xylenes	1330-20-7	< 0.000182	0.000182		mg/kg	02.12.20 16.46	U	1
Total BTEX		< 0.000182	0.000182		mg/kg	02.12.20 16.46	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	110	%	70-130	02.12.20 16.46		
4-Bromofluorobenzene		460-00-4	96	%	70-130	02.12.20 16.46		



#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

02.12.20 12.30

Sample Id: SS02

Matrix: Soil

Date Received:02.12.20 11.57

Lab Sample Id: 652122-002

Date Collected: 02.10.20 12.30

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

MAB MAB % Moisture: Basis:

Wet Weight

Seq Number: 3116355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4770	503	mg/kg	02.12.20 14.21		50

Date Prep:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: Analyst: DTH DTH

Date Prep: 02.12.20 13.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	02.12.20 13.55	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.3	50.3		mg/kg	02.12.20 13.55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.3	50.3		mg/kg	02.12.20 13.55	U	1
Total GRO-DRO	PHC628	< 50.3	50.3		mg/kg	02.12.20 13.55	U	1
Total TPH	PHC635	< 50.3	50.3		mg/kg	02.12.20 13.55	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	02.12.20 13.55		
o-Terphenyl		84-15-1	97	%	70-135	02.12.20 13.55		

Wet Weight



### **Certificate of Analytical Results 652122**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS02 Matrix: Soil Date Received:02.12.20 11.57

Lab Sample Id: 652122-002 Date Collected: 02.10.20 12.30 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 02.12.20 12.30 Basis:

Parameter	Cas Number	Result	$\mathbf{RL}$		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	02.12.20 17.06	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	02.12.20 17.06	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	02.12.20 17.06	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	02.12.20 17.06	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	02.12.20 17.06	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	02.12.20 17.06	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	02.12.20 17.06	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	02.12.20 17.06		
4-Bromofluorobenzene		460-00-4	98	%	70-130	02.12.20 17.06		



#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS03

Matrix: Soil

Date Received:02.12.20 11.57

Lab Sample Id: 652122-003

Date Collected: 02.10.20 12.35

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P % Moisture:

Tech:
Analyst:

MAB MAB

Date Prep:

02.12.20 12.30

Basis:

Wet Weight

Seq Number: 3116355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4030	499	mg/kg	02.12.20 14.27		50

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:
Analyst:

DTH DTH

Date Prep:

02.12.20 13.00

Basis:

Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	02.12.20 14.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	02.12.20 14.15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	02.12.20 14.15	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	02.12.20 14.15	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	02.12.20 14.15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	82	%	70-135	02.12.20 14.15		
o-Terphenyl		84-15-1	90	%	70-135	02.12.20 14.15		



#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

02.12.20 12.30

Basis:

Wet Weight

Sample Id: SS03 Matrix: Soil Date Received:02.12.20 11.57

Lab Sample Id: 652122-003 Date Collected: 02.10.20 12.35 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Date Prep:

Tech: MAB % Moisture:

Seq Number: 3116351

Analyst:

MAB

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	02.12.20 18.08	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	02.12.20 18.08	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	02.12.20 18.08	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	02.12.20 18.08	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	02.12.20 18.08	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	02.12.20 18.08	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	02.12.20 18.08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	02.12.20 18.08		
4-Bromofluorobenzene		460-00-4	97	%	70-130	02.12.20 18.08		



#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: **SS04** 

Soil Matrix:

Date Received:02.12.20 11.57

Lab Sample Id: 652122-004

Date Collected: 02.10.20 12.40

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst:

MAB

Date Prep: 02.12.20 12.30 % Moisture: Basis:

Wet Weight

Seq Number: 3116355

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4580	497	mg/kg	02.12.20 14.32		50

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech: DTH

Analyst:

DTH

02.12.20 13.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	02.12.20 14.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	02.12.20 14.15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	02.12.20 14.15	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	02.12.20 14.15	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	02.12.20 14.15	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	02.12.20 14.15		
o-Terphenyl		84-15-1	98	%	70-135	02.12.20 14.15		



#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS04 Matrix: Soil Date Received:02.12.20 11.57

Lab Sample Id: 652122-004 Date Collected: 02.10.20 12.40 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 02.12.20 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	02.12.20 18.28	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	02.12.20 18.28	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	02.12.20 18.28	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	02.12.20 18.28	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	02.12.20 18.28	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	02.12.20 18.28	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	02.12.20 18.28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	02.12.20 18.28		
4-Bromofluorobenzene		460-00-4	98	%	70-130	02.12.20 18.28		



#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS05

Matrix: Soil

Date Received:02.12.20 11.57

Lab Sample Id: 652122-005

Date Collected: 02.10.20 12.45

Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech:

Analyst:

MAB MAB

Date Prep: 02.12.20 12.30

% Moisture: Basis:

Wet Weight

Seq Number: 3116355

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 4380
 502
 mg/kg
 02.12.20 14.38
 50

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

DTH DTH

Date Prep: 02.12.20 13.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	02.12.20 14.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	02.12.20 14.35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	02.12.20 14.35	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	02.12.20 14.35	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	02.12.20 14.35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	92	%	70-135	02.12.20 14.35		
o-Terphenyl		84-15-1	97	%	70-135	02.12.20 14.35		



#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS05 Matrix: Soil Date Received:02.12.20 11.57

Lab Sample Id: 652122-005 Date Collected: 02.10.20 12.45 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 02.12.20 12.30 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	02.12.20 18.48	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	02.12.20 18.48	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	02.12.20 18.48	U	1
m,p-Xylenes	179601-23-1	< 0.00404	0.00404		mg/kg	02.12.20 18.48	U	1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	02.12.20 18.48	U	1
Total Xylenes	1330-20-7	< 0.00202	0.00202		mg/kg	02.12.20 18.48	U	1
Total BTEX		< 0.00202	0.00202		mg/kg	02.12.20 18.48	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	02.12.20 18.48		
4-Bromofluorobenzene		460-00-4	95	%	70-130	02.12.20 18.48		



#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: **SS06** 

Soil Matrix:

Date Received:02.12.20 11.57

Lab Sample Id: 652122-006 Date Collected: 02.10.20 13.05 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB

Analyst:

MAB

Basis:

% Moisture:

Seq Number: 3116355

Date Prep: 02.12.20 12.30 Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1950	200	mg/kg	02.12.20 14.44		20

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

DTH Tech: DTH

Analyst:

02.12.20 13.00 Date Prep:

Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	02.12.20 14.35	U	1
Diesel Range Organics (DRO)	C10C28DRO	76.0	50.2		mg/kg	02.12.20 14.35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	02.12.20 14.35	U	1
Total GRO-DRO	PHC628	76.0	50.2		mg/kg	02.12.20 14.35		1
Total TPH	PHC635	76.0	50.2		mg/kg	02.12.20 14.35		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	02.12.20 14.35		
o-Terphenyl		84-15-1	97	%	70-135	02.12.20 14.35		



#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS06 Matrix: Soil Date Received:02.12.20 11.57

Lab Sample Id: 652122-006 Date Collected: 02.10.20 13.05 Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B Prep Method: SW5030B

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 02.12.20 12.30 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	02.12.20 19.09	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	02.12.20 19.09	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	02.12.20 19.09	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	02.12.20 19.09	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	02.12.20 19.09	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	02.12.20 19.09	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	02.12.20 19.09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	111	%	70-130	02.12.20 19.09		
4-Bromofluorobenzene		460-00-4	97	%	70-130	02.12.20 19.09		



### **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.

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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.



#### **QC Summary** 652122

#### LT Environmental, Inc.

Remuda South 25 #126H

Analytical Method: Chloride by EPA 300

Seq Number: 3116355 Matrix: Solid

MR

LCS Sample Id: MB Sample Id: 7696487-1-BLK

7696487-1-BKS

E300P Prep Method:

Date Prep: 02.12.20

LCSD Sample Id: 7696487-1-BSD

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

02.12.20 11:58 Chloride <10.0 250 255 102 256 102 90-110 0 20 mg/kg

LCS

LCS

Analytical Method: Chloride by EPA 300

Seq Number: 3116355 Matrix: Soil

Prep Method: Date Prep:

E300P

Parent Sample Id: 652094-001 MS Sample Id:

652094-001 S

02.12.20 MSD Sample Id: 652094-001 SD

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

Chloride 9040 200 9250 105 9220 90 90-110 0 20 mg/kg 02.12.20 12:15

Analytical Method: Chloride by EPA 300

3116355 Seq Number:

Matrix: Soil

MS Sample Id:

LCS Sample Id:

Prep Method:

E300P

Parent Sample Id:

652112-004

Date Prep:

02.12.20

MSD Sample Id: 652112-004 SD

MS %RPD RPD Limit Units Parent Spike MS **MSD MSD** Limits Analysis Flag **Parameter** Result Date Result %Rec Amount Result %Rec Chloride 565 200 763 99 764 90-110 0 20 02.12.20 13:47 100 mg/kg

652112-004 S

Analytical Method: TPH by SW8015 Mod

3116314 Seq Number:

MB Sample Id:

7696489-1-BLK

7696489-1-BKS

Prep Method:

SW8015P

Flag

Flag

Date Prep: 02.12.20

LCSD Sample Id: 7696489-1-BSD

%RPD RPD Limit Units MB Spike LCS LCS Limits Analysis LCSD LCSD **Parameter** Result %Rec Date Result Amount %Rec Result Gasoline Range Hydrocarbons (GRO) 795 80 834 70-135 02.12.20 11:36 < 50.0 1000 83 5 35 mg/kg 02.12.20 11:36 707 71 747 70-135 Diesel Range Organics (DRO) 1000 75 6 35 < 50.0 mg/kg

Matrix: Solid

LCS MB MB LCS LCSD LCSD Limits Units Analysis **Surrogate** %Rec Flag %Rec Flag Flag Date %Rec 1-Chlorooctane 132 117 112 70-135 % 02.12.20 11:36 02.12.20 11:36 o-Terphenyl 130 100 100 70-135 %

Analytical Method: TPH by SW8015 Mod

Seg Number:

3116314

Matrix: Solid

Prep Method:

SW8015P

Date Prep:

02.12.20

MB Sample Id: 7696489-1-BLK

MB **Parameter** Result Motor Oil Range Hydrocarbons (MRO) < 50.0

Units Analysis Date mg/kg

02.12.20 11:16

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

= MSD/LCSD Result

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

Flag

Flag



Seq Number:

Parent Sample Id:

#### **QC Summary** 652122

#### LT Environmental, Inc.

Remuda South 25 #126H

Analytical Method: TPH by SW8015 Mod

652094-001

3116314 Matrix: Soil

MS Sample Id: 652094-001 S

SW8015P Prep Method:

Date Prep: 02.12.20

MSD Sample Id: 652094-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPI	RPD Lim	nit Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	< 50.2	1000	883	88	932	93	70-135	5	35	mg/kg	02.12.20 11:56	
Diesel Range Organics (DRO)	< 50.2	1000	967	97	1020	102	70-135	5	35	mg/kg	02.12.20 11:56	
<b>a</b>			N	MS 1	MS	MSI	) MS	<b>D</b> ]	Limits	Units	Analysis	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		112		70-135	%	02.12.20 11:56
o-Terphenyl	101		108		70-135	%	02.12.20 11:56

Analytical Method: BTEX by EPA 8021B

Seq Number: 3116351

Matrix: Solid

Prep Method: SW5030B Date Prep:

02.12.20

LCS Sample Id: 7696486-1-BKS LCSD Sample Id: 7696486-1-BSD 7696486-1-BLK 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	0.118	118	0.125	125	70-130	6	35	mg/kg	02.12.20 12:21
Toluene	< 0.00200	0.100	0.110	110	0.116	116	70-130	5	35	mg/kg	02.12.20 12:21
Ethylbenzene	< 0.00200	0.100	0.106	106	0.112	112	71-129	6	35	mg/kg	02.12.20 12:21
m,p-Xylenes	< 0.00400	0.200	0.209	105	0.220	110	70-135	5	35	mg/kg	02.12.20 12:21
o-Xylene	< 0.00200	0.100	0.104	104	0.110	110	71-133	6	35	mg/kg	02.12.20 12:21

Surrogate	%Rec	Flag		Flag	%Rec	Flag	Limits	Units	Date
1,4-Difluorobenzene	110		108		108		70-130	%	02.12.20 12:21
4-Bromofluorobenzene	96		93		94		70-130	%	02.12.20 12:21

Analytical Method: BTEX by EPA 8021B

Seq Number: 3116351 Parent Sample Id: 652094-001

Matrix: Soil MS Sample Id: 652094-001 S Prep Method: SW5030B Date Prep:

02.12.20 MSD Sample Id: 652094-001 SD

MS %RPD RPD Limit Units Parent Spike MS MSD MSD Limits Analysis **Parameter** Result Amount Result %Rec %Rec Date Result 02.12.20 13:02 < 0.00199 0.0996 0.106106 0.125Benzene 125 70-130 16 35 mg/kg Toluene < 0.00199 0.0996 0.111 111 0.116 116 70-130 4 35 mg/kg 02.12.20 13:02 108 0.112 71-129 02.12.20 13:02 Ethylbenzene < 0.00199 0.0996 0.108 112 4 35 mg/kg 95 0.219 35 02.12.20 13:02 < 0.00398 0.199 0.190 70-135 14 m,p-Xylenes 110 mg/kg 02.12.20 13:02 0.102 102 0.110 71-133 35 o-Xylene < 0.00199 0.0996 110 8 mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		107		70-130	%	02.12.20 13:02
4-Bromofluorobenzene	95		94		70-130	%	02.12.20 13:02

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

	hold me	Relinquished by: (Signature)	otice: Signature of this docum	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed			5506	5505	SSOU	\$503	2000	5501	Sample Identification	Sample Custody Seals.	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name: Robe	P.O. Number: SP.11	ň	Name:		e ZIP:			Project Manager: Dan Moir	Page 75 o
	Mrs Co	gnature)	nent and relinquishment only for the cost of sam	200.8 / 6020: nd Metal(s) to be a			4					S	tion Matrix	18	Ves No NIA	M	i i	Temp Blank:	Robert McAfee	date		Hows	432.704.5178	Midland, TX 79705	3300 North A Street	nmental, Inc.,	Moir	NEOR ATORIES
	J. L.	Received by:	of samples constitutes ples and shall not assu o each project and a c	8RCRA nalyzed TCLP			1305	1245	1240	1235	1230	02/10/20 1225	Sampled Sar	1	Total Containers:	Correction Factor:	Therm	No No		10/25/19		25 #126#				Permian office		Hobbs,NM (
	M	(Signature)	a valid purchase order from any responsibility for harge of \$6 for each samp	A 13PPM Texas 11 P / SPLP 6010: 8RCR			35	5	0	5	0	3 0.5	Sampled Depth		6	1	Thermometer ID	Wet Ice: Yes No	Due Date:	Rush: 5 day	Routine M	Turn Around	Email: dmoir@ltenv	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	louston,TX (281) 240-4; Midland,TX (432-704-5 75-392-7550) Phoenix
	2/12/20 11:57	Date/Time	om client company to Xenco, its any losses or expenses incurre ile submitted to Xenco, but not a	RCRA 13PPM Texas 11 AISb As Ba Be TCLP / SPLP 6010: 8RCRA Sb As Ba Be C		M	-	+	< ×	< ×	c ×	1	TPH BTE:	(EP/	A 80	15)		ers					Email: dmoir@ltenv.com rmcafee@ltenv.com	carlsbad, NM		ne: XTO-Energy	nt) Kyle Littrel	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800)
6	4 2	Relinquished by: (Signature)	affiliates and subcontractors. It as d by the client if such losses are di malyzed. These terms will be enfor	B Cd Ca Cr Co Cu Fe Cd Cr Co Cu Pb Mn Mc		3																ANALYSIS REQUEST	m					
		nature) Received by: (Signature)	otice: 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 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 the control of the control of 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 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 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 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 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 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 cost of samples are due to circumstances.	0																		WEST	Convenience: 100		evel	Program: UST/PST PRP		3-620-2000) W/
Boulead Date 044418 Rev. 201		ignature) Date/Time		SiO2 Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg								0.13(10)(	Santo	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the						MOIV Older Moteo		Othe	ST/UST RRP bveliV	PRP Brownfields RC Uperfund	ents	com Page of

#### **XENCO Laboratories**

#### Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 02.12.2020 11.57.00 AM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 652122

Analyst:

Temperature Measuring device used: T-NM-007

Samp	le Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.4	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ coo	ler? 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/ rece	eived? Yes	
#10 Chain of Custody agrees with sample labels/ma	atrix? 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 test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	No	
#18 Water VOC samples have zero headspace?	N/A	

Must be completed fo	r after-hours deliver	y of samples	prior to placin	g in the refrigerator

0,11,	

PH Device/Lot#:

Checklist completed by: Date: 02.12.2020 Elizabeth McClellan

Checklist reviewed by:

Date: 02.12.2020

eurofins Environment Testing

#### Page 77 of 139

# **Certificate of Analysis Summary 673152**

LT Environmental, Inc., Arvada, CO

Project Name: Remuda South 25 #126H

**Project Id:** 

**Project Location:** 

012919260

**Eddy County** 

Dan Moir **Contact:** 

**Date Received in Lab:** Mon 09.21.2020 16:31

**Report Date:** 09.23.2020 14:07

Project Manager: Jessica Kramer

	Lab Id:	673152-0	001	673152-0	02	673152-0	003	673152-	004	673152-0	005	673152-0	06
A malania Damanda I	Field Id:	PH01		PH02		PH03		PH04		PH05		FS01	
Analysis Requested	Depth:	3- ft											
	Matrix:	SOIL	,	SOIL		SOIL	,	SOIL	,	SOIL	,	SOIL	
	Sampled:	09.21.2020	13:20	09.21.2020	13:29	09.21.2020	10:59	09.21.2020	12:10	09.21.2020	12:29	09.21.2020	14:46
BTEX by EPA 8021B	Extracted:	09.21.2020	17:06	09.21.2020	17:06	09.21.2020	17:06	09.21.2020	17:06	09.21.2020	17:06	09.21.2020	17:06
	Analyzed:	09.21.2020	18:43	09.21.2020	19:05	09.21.2020	19:28	09.21.2020	19:50	09.21.2020	20:13	09.21.2020	20:35
	Units/RL:	mg/kg	RL										
Benzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00198	0.00198
Toluene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00198	0.00198
Ethylbenzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00198	0.00198
m,p-Xylenes		< 0.00400	0.00400	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00402	0.00402	< 0.00396	0.00396	< 0.00396	0.00396
o-Xylene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00198	0.00198
Total Xylenes		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00198	0.00198
Total BTEX		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00198	0.00198
Chloride by EPA 300	Extracted:	09.22.2020	09:23	09.22.2020	09:23	09.22.2020	09:23	09.22.2020	09:23	09.22.2020	09:23	09.22.2020	09:23
	Analyzed:	09.22.2020	11:55	09.22.2020	12:22	09.22.2020	12:28	09.22.2020	12:33	09.22.2020	12:39	09.22.2020	12:44
	Units/RL:	mg/kg	RL										
Chloride		30.5	9.92	<10.0	10.0	416	10.0	<10.0	10.0	20.7	9.98	217	9.94
TPH by SW8015 Mod	Extracted:	09.21.2020	16:50	09.21.2020	16:50	09.21.2020	16:50	09.21.2020	16:50	09.21.2020	16:50	09.21.2020	16:50
	Analyzed:	09.21.2020	18:39	09.21.2020	18:59	09.21.2020	19:19	09.21.2020	19:40	09.21.2020	20:00	09.21.2020	20:20
	Units/RL:	mg/kg	RL										
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	< 50.1	50.1	< 50.1	50.1	< 50.0	50.0	< 50.1	50.1	< 50.1	50.1
Diesel Range Organics (DRO)		< 50.2	50.2	<50.1	50.1	< 50.1	50.1	< 50.0	50.0	< 50.1	50.1	< 50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		< 50.2	50.2	<50.1	50.1	< 50.1	50.1	<50.0	50.0	< 50.1	50.1	<50.1	50.1
Total GRO-DRO		< 50.2	50.2	< 50.1	50.1	< 50.1	50.1	< 50.0	50.0	< 50.1	50.1	< 50.1	50.1
Total TPH		< 50.2	50.2	<50.1	50.1	< 50.1	50.1	< 50.0	50.0	<50.1	50.1	< 50.1	50.1

BRL - Below Reporting Limit

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

Jessica Vramer



# **Analytical Report 673152**

for

# LT Environmental, Inc.

Project Manager: Dan Moir

Remuda South 25 #126H 012919260 09.23.2020

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)



09.23.2020

Project Manager: **Dan Moir LT Environmental, Inc.**4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 673152

Remuda South 25 #126H Project Address: Eddy County

#### Dan Moir:

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) 673152. 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. 673152 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 673152**

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
PH01	S	09.21.2020 13:20	3 ft	673152-001
PH02	S	09.21.2020 13:29	3 ft	673152-002
PH03	S	09.21.2020 10:59	3 ft	673152-003
PH04	S	09.21.2020 12:10	3 ft	673152-004
PH05	S	09.21.2020 12:29	3 ft	673152-005
FS01	S	09.21.2020 14:46	3 ft	673152-006

**Environment Testing** 

#### **CASE NARRATIVE**

Page 81 of 139

Client Name: LT Environmental, Inc. Project Name: Remuda South 25 #126H

Project ID: Report Date: 09.23.2020 012919260 Work Order Number(s): 673152 Date Received: 09.21.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

## **Certificate of Analytical Results 673152**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: **PH01** Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-001 Date Collected: 09.21.2020 13:20 Sample Depth: 3 ft

Prep Method: E300P

% Moisture:

MAB Analyst: Date Prep: 09.22.2020 09:23 Basis: Wet Weight

Seq Number: 3137776

Tech:

Analytical Method: Chloride by EPA 300

MAB

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	30.5	9.92	mg/kg	09.22.2020 11:55		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

 $\operatorname{DTH}$ % Moisture: Tech:

Analyst: DTH Basis: Wet Weight Date Prep: 09.21.2020 16:50

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	09.21.2020 18:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	09.21.2020 18:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	09.21.2020 18:39	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	09.21.2020 18:39	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	09.21.2020 18:39	U	1
Surrogate	C	as Number 9	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	
1-Chlorooctane	111-85-3	100	%	70-135	09.21.2020 18:39	
o-Terphenyl	84-15-1	93	%	70-135	09.21.2020 18:39	

# **Certificate of Analytical Results 673152**

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: PH01 Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-001 Date Collected: 09.21.2020 13:20 Sample Depth: 3 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.21.2020 17:06 Basis: Wet Weight

Parameter	Cas Number	Result	$\mathbf{RL}$		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	09.21.2020 18:43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	460-00-4	87	%	70-130	09.21.2020 18:43		
1,4-Difluorobenzene	4	540-36-3	99	%	70-130	09.21.2020 18:43		

**PH02** 

MAB

Analytical Method: Chloride by EPA 300

## **Certificate of Analytical Results 673152**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-002 Date Collected: 09.21.2020 13:29 Sample Depth: 3 ft

Prep Method: E300P

% Moisture:

% Moisture:

MAB Analyst: Date Prep: 09.22.2020 09:23 Basis: Wet Weight

Seq Number: 3137776

Sample Id:

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	09.22.2020 12:22	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

 $\operatorname{DTH}$ Tech:

Analyst: DTH Basis: Wet Weight Date Prep: 09.21.2020 16:50

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	09.21.2020 18:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	09.21.2020 18:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	09.21.2020 18:59	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	09.21.2020 18:59	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.21.2020 18:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	09.21.2020 18:59		
o-Terphenyl		84-15-1	92	%	70-135	09.21.2020 18:59		

# **Certificate of Analytical Results 673152**

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: PH02 Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-002 Date Collected: 09.21.2020 13:29 Sample Depth: 3 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.21.2020 17:06 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	09.21.2020 19:05	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	09.21.2020 19:05		
4-Bromofluorobenzene		460-00-4	92	%	70-130	09.21.2020 19:05		

**PH03** 

Analytical Method: Chloride by EPA 300

## **Certificate of Analytical Results 673152**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-003 Date Collected: 09.21.2020 10:59 Sample Depth: 3 ft

Prep Method: E300P

Tech: MAB

% Moisture:

% Moisture:

MAB Analyst: Date Prep: 09.22.2020 09:23 Basis: Wet Weight

Seq Number: 3137776

Sample Id:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	416	10.0	mg/kg	09.22.2020 12:28		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

DTH Tech:

Analyst: DTH Basis: Wet Weight Date Prep: 09.21.2020 16:50

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	09.21.2020 19:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	09.21.2020 19:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	09.21.2020 19:19	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	09.21.2020 19:19	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.21.2020 19:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	%	70-135	09.21.2020 19:19		
o-Terphenyl		84-15-1	93	%	70-135	09.21.2020 19:19		

# Certificate of Analytical Results 673152

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: **PH03** Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-003 Date Collected: 09.21.2020 10:59 Sample Depth: 3 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.21.2020 17:06 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	09.21.2020 19:28	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
Surrogate	(	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1.4-Diffuorobenzene	5	340-36-3	102	0%	70-130	09 21 2020 19:28		

Surrogate	Cas Number	% Recovery	Units	Limits	<b>Analysis Date</b>	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.21.2020 19:28	
4-Bromofluorobenzene	460-00-4	90	%	70-130	09.21.2020 19:28	

## **Certificate of Analytical Results 673152**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: **PH04** Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-004 Date Collected: 09.21.2020 12:10 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P Tech: MAB

% Moisture:

MAB Analyst: Date Prep: 09.22.2020 09:23 Basis: Wet Weight

Seq Number: 3137776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	09.22.2020 12:33	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

DTH % Moisture: Tech:

Analyst: DTH Basis: Wet Weight Date Prep: 09.21.2020 16:50

Parameter	Cas Number	r Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	09.21.2020 19:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	09.21.2020 19:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	09.21.2020 19:40	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	09.21.2020 19:40	U	1
Total TPH	PHC635	< 50.0	50.0		mg/kg	09.21.2020 19:40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	09.21.2020 19:40		
o-Terphenyl		84-15-1	89	%	70-135	09.21.2020 19:40		

# Certificate of Analytical Results 673152

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: PH04 Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-004 Date Collected: 09.21.2020 12:10 Sample Depth: 3 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.21.2020 17:06 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	09.21.2020 19:50	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	5	540-36-3	101	%	70-130	09.21.2020 19:50		
4-Bromofluorobenzene	4	160-00-4	91	%	70-130	09.21.2020 19:50		

PH05

Analytical Method: Chloride by EPA 300

## **Certificate of Analytical Results 673152**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: Matrix: Soil

Lab Sample Id: 673152-005 Date Collected: 09.21.2020 12:29 Sample Depth: 3 ft

Prep Method: E300P

Date Received:09.21.2020 16:31

Tech: MAB % Moisture:

MAB Analyst: Date Prep: 09.22.2020 09:23 Basis: Wet Weight

Seq Number: 3137776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.7	9.98	mg/kg	09.22.2020 12:39		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

DTH % Moisture: Tech:

Analyst: DTH Basis: Wet Weight Date Prep: 09.21.2020 16:50

Parameter	Cas Numbe	r Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	09.21.2020 20:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	09.21.2020 20:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	09.21.2020 20:00	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	09.21.2020 20:00	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.21.2020 20:00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	09.21.2020 20:00		
o-Terphenyl		84-15-1	90	%	70-135	09.21.2020 20:00		

# Certificate of Analytical Results 673152

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: PH05 Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-005 Date Collected: 09.21.2020 12:29 Sample Depth: 3 ft

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

Tech: MAB % Moisture:

540-36-3

Analyst: MAB Date Prep: 09.21.2020 17:06 Basis: Wet Weight

Seq Number: 3137712

1,4-Difluorobenzene

Benzene         71-43-2         <0.00198	arameter	Cas Number	Result	$\mathbf{RL}$		Units	<b>Analysis Date</b>	Flag	Dil
Ethylbenzene         100-41-4         <0.00198         0.00198         mg/kg         09.21.2020 20:13         U           m,p-Xylenes         179601-23-1         <0.00396	enzene	71-43-2	< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
m,p-Xylenes       179601-23-1       <0.00396	oluene	108-88-3	< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
o-Xylene         95-47-6         <0.00198         0.00198         mg/kg         09.21.2020 20:13         U           Total Xylenes         1330-20-7         <0.00198	thylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
Total Xylenes         1330-20-7         <0.00198         0.00198         mg/kg         09.21.2020 20:13         U           Total BTEX         <0.00198         0.00198         mg/kg         09.21.2020 20:13         U           Surrogate         Cas Number         Recovery         Units         Limits         Analysis Date         Flag	n,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	09.21.2020 20:13	U	1
Total BTEX <0.00198 0.00198 mg/kg 09.21.2020 20:13 U  Surrogate Cas Number % Recovery Units Limits Analysis Date Flag	-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
Surrogate Cas Number % Recovery Units Limits Analysis Date Flag	otal Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
	otal BTEX		< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
4-Bromofluorobenzene 460-00-4 94 % 70-130 09.21.2020 20:13	Surrogate	(	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
	4-Bromofluorobenzene	4	160-00-4	94	%	70-130	09.21.2020 20:13		

88

%

70-130

09.21.2020 20:13

**FS01** 



## **Certificate of Analytical Results 673152**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Soil

Date Received:09.21.2020 16:31

Lab Sample Id: 673152-006 Date Collected: 09.21.2020 14:46 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

% Moisture:

Tech: MAB

Sample Id:

Analyst:

MAB

Date Prep: 09.22.2020 09:23

Basis:

Wet Weight

Seq Number: 3137776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	217	9.94	mg/kg	09.22.2020 12:44		1

Matrix:

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

% Moisture:

Tech:

Analyst:

 $\operatorname{DTH}$ DTH

Date Prep: 09.21.2020 16:50 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	09.21.2020 20:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	09.21.2020 20:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	09.21.2020 20:20	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	09.21.2020 20:20	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	09.21.2020 20:20	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	<b>Analysis Date</b>
1-Chlorooctane	111-85-3	93	%	70-135	09.21.2020 20:20
o-Terphenyl	84-15-1	86	%	70-135	09.21.2020 20:20

# Certificate of Analytical Results 673152

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: **FS01** Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-006 Date Collected: 09.21.2020 14:46 Sample Depth: 3 ft

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

Tech: MAB % Moisture:

MAB Analyst: Date Prep: 09.21.2020 17:06 Basis: Wet Weight

Seq Number: 3137712

Parameter	Cas Numbe	er Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	09.21.2020 20:35	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	09.21.2020 20:35		
4-Bromofluorobenzene		460-00-4	88	%	70-130	09.21.2020 20:35		



# **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.

**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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.

Flag

Flag

#### **QC Summary** 673152

#### eurofins **Environment Testing** Xenco

**Parameter** 

Chloride

#### LT Environmental, Inc.

Remuda South 25 #126H

Analytical Method: Chloride by EPA 300

E300P Prep Method:

E300P

E300P

mg/kg

09.22.2020 10:20

Seq Number: 3137776 Matrix: Solid Date Prep: 09.22.2020

7711799-1-BLK LCS Sample Id: 7711799-1-BKS LCSD Sample Id: 7711799-1-BSD MB Sample Id: LCS RPD MB Spike LCS Limits %RPD Units Analysis LCSD LCSD

Result Amount Result %Rec Result %Rec Limit Date Chloride <10.0 250 252 101 253 90-110 0 20 09.22.2020 10:01 101 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: 3137776 Seq Number: Matrix: Soil Date Prep: 09.22.2020 673152-001 MS Sample Id: 673152-001 S MSD Sample Id: 673152-001 SD Parent Sample Id:

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

Result Amount Result %Rec Result %Rec Limit Date 20 09.22.2020 12:00 Chloride 30.5 199 231 101 234 102 90-110 1 mg/kg

Analytical Method: Chloride by EPA 300

Prep Method: 3137776 Seq Number: Matrix: Soil Date Prep: 09.22.2020

MS Sample Id: 673161-001 S MSD Sample Id: 673161-001 SD Parent Sample Id: 673161-001

110

602

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

587

100

90-110

Analytical Method: TPH by SW8015 Mod

385

198

SW8015P Prep Method: Matrix: Solid Seq Number: 3137717 Date Prep: 09.21.2020

MB Sample Id: 7711777-1-BLK LCS Sample Id: 7711777-1-BKS LCSD Sample Id: 7711777-1-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) 09.21.2020 12:16 848 85 35 < 50.0 1000 811 81 70-135 4 mg/kg 09.21.2020 12:16 Diesel Range Organics (DRO) 872 87 832 83 70-135 5 35 < 50.0 1000 mg/kg

LCS MBMB LCS LCSD Limits Units Analysis LCSD **Surrogate** Flag %Rec %Rec Date Flag %Rec Flag 09.21.2020 12:16 1-Chlorooctane 88 94 93 70-135 % 09.21.2020 12:16 83 o-Terphenyl 84 80 70-135 %

SW8015P Analytical Method: TPH by SW8015 Mod Prep Method:

Seq Number: 3137717 Matrix: Solid Date Prep: 09.21.2020

MB Sample Id: 7711777-1-BLK

MBUnits Analysis Flag **Parameter** Result Date Motor Oil Range Hydrocarbons (MRO) 09.21.2020 11:56 < 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

3

20

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

mg/kg

Flag

Flag

Seq Number:

Parent Sample Id:

#### **QC Summary** 673152

#### LT Environmental, Inc.

Remuda South 25 #126H

Analytical Method: TPH by SW8015 Mod

3137717 673097-001

Matrix: Soil MS Sample Id: 673097-001 S

SW8015P Prep Method:

Date Prep: MSD Sample Id: 673097-001 SD

09.21.2020

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	]
Gasoline Range Hydrocarbons (GRO)	< 50.1	1000	852	85	846	85	70-135	1	35	mg/kg	09.21.2020 13:17	
Diesel Range Organics (DRO)	68.8	1000	948	88	964	90	70-135	2	35	mg/kg	09.21.2020 13:17	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		107		70-135	%	09.21.2020 13:17
o-Terphenyl	93		93		70-135	%	09.21.2020 13:17

Analytical Method: BTEX by EPA 8021B

3137712

Matrix: Solid

Prep Method:

SW5035A

09.21.2020

Seq Number: Date Prep: 7711754-1-BLK LCS Sample Id: 7711754-1-BKS LCSD Sample Id: 7711754-1-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	0.0978	98	0.104	104	70-130	6	35	mg/kg	09.21.2020 11:38
Toluene	< 0.00200	0.100	0.0948	95	0.101	101	70-130	6	35	mg/kg	09.21.2020 11:38
Ethylbenzene	< 0.00200	0.100	0.0885	89	0.0941	94	71-129	6	35	mg/kg	09.21.2020 11:38
m,p-Xylenes	< 0.00400	0.200	0.179	90	0.191	96	70-135	6	35	mg/kg	09.21.2020 11:38
o-Xylene	< 0.00200	0.100	0.0873	87	0.0933	93	71-133	7	35	mg/kg	09.21.2020 11:38

1.4-Difluorobenzene 100 9				
	99 89	99 93	70-13 70-13	09.21.2020 11:38 09.21.2020 11:38

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137712 Parent Sample Id:

673097-001

Matrix: Soil

MS Sample Id: 673097-001 S

Prep Method: SW5035A Date Prep:

09.21.2020 MSD Sample Id: 673097-001 SD

RPD **Parent** Spike MS MS MSD MSD Limits %RPD Units Analysis Flag **Parameter** Limit Date Result Amount Result %Rec Result %Rec 09.21.2020 12:23 < 0.00201 0.101 0.121 120 0.122 70-130 35 Benzene 121 1 mg/kg 09.21.2020 12:23 70-130 35 Toluene < 0.00201 0.101 0.111 110 0.127 126 13 mg/kg Ethylbenzene < 0.00201 0.101 0.0935 93 0.118 117 71-129 23 35 mg/kg 09.21.2020 12:23 m,p-Xylenes < 0.00402 0.201 0.187 93 0.238 70-135 24 35 09.21.2020 12:23 118 mg/kg o-Xylene < 0.00201 0.101 0.0916 91 0.116 115 71-133 24 35 09.21.2020 12:23 mg/kg

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		98		70-130	%	09.21.2020 12:23
4-Bromofluorobenzene	92		85		70-130	%	09.21.2020 12:23

Page	<b>97</b>	of	139
4		1	



# Chain of Custody

Work Order No: 673153

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

ceiv		WIN ST	Reiniquisned by: (Signature)	Polinguiched but	of service. Xenco will be lia	Circle Method(s)	Total 200.7 / 6010			1	FS01	PH05	PH04	PH03	PH02	PHO1	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:	Company Name:	Composit Mariager.
		Use Calland	Received by:	A minimum charge of \$76.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms	of service. 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 is the client for the contractors of samples and shall not assume any responsibility for any losses of expenses incurred by the client force.	Circle Method(s) and Metal(s) to be analyzed TCLP /	200.8 / 6020: 8RCRA	2	with		s 9/21/2020	S	S	s 9/21/2020 10:59	s 9/21/2020 13:29	s 9/21/2020 13:20	Matrix	Yes (No NIA	Yes (	EYES NO T-N	7.6/7.4 Thermon	Temp Blank: (Yes No	William Mather	Eddy	<i>(</i> )12919260	Remuda South 25 #126H	(432) 236-3849	Midland, Tx 79705	3300 North A Street	LI Environmental, Inc., Permian office	Can Moir
			(Signature)	of \$5 for each sample submi	id purchase order from clien	TCLP / SPLP 6010: 8RCRA	- 11 1	3	1		1		0 3 1	9 3' 1	9 3'	0 3' 1	e Depth Number	e	6.0	ı	Thermometer ID	Wet Ice: Yes No	Due Date:	Rush:	Routine P	Turn Around	Email: wmather@ltenv.com, dmoir@ltenv.com	City, State ZIP:	Address:	Company Name:	Bill to: (if different)
on .	4	9-21-26 16:31 2	Date/Time	tted to Xenco, but not analy	t company to Xenco, its affiles	Sb As Ba Be Cd Cr Co	Cr ^			> >	< >	×		× × ×	× ×	× ×	TPH (EF	PA 0	=80								om, dmoir@ltenv.com			XTO Energy	Kyle Littrell
			Relinquished by: (Signature)	zed. These terms will be enforced unle	liates and subcontractors. It assigns s	Cr Co Cu Pb Mn Mo Ni Se Ag																				ANALYSIS REQUEST					
			Received by: (Signature)	rosses are due to circumstances beyond the control will be enforced unless previously negotiated.		\g SiO2												T								ST	DI	Reporting:Level III ST/UST	[	Program: UST/PST RP Trownfields	Work Order Comments
			Date/Time			Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg				Composite	Discrete	Discrete	Discrete	Disciple	Disciplina	Discreto	Sample Comments	TAT starts the day recevied by the lab, if received by 4:30nm								Work Order Notes	Other	ST ∏RP U}veLIV ∏	C	olds RC Snerfund	mments

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

Date/ Time Received: 09.21.2020 04.31.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 673152

Analyst:

Temperature Measuring device used: T\_NM\_007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		7.4	
#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	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 p	rior to r	lacing in t	he refrigerator

Checklist completed by:	Cloe Clifton	Date: 09.21.2020	
Checklist reviewed by:	Jessica Vramer	Date: 09 23 2020	

Jessica Kramer

PH Device/Lot#:

## Received by OCD: 1/18/2021 2:37:57 PM

#### 💸 eurofins **Environment Testing**

# **Certificate of Analysis Summary 673152**

LT Environmental, Inc., Arvada, CO

Project Name: Remuda South 25 #126H

**Project Id:** 012919260

Dan Moir **Contact:** 

**Report Date:** 09.24.2020 08:02

**Eddy County Project Location:** 

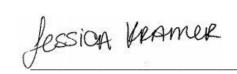
Project Manager: Jessica Kramer

**Date Received in Lab:** Mon 09.21.2020 16:31

Lab Id:		673152-001		673152-0	002	673152-0	003	673152-0	004	673152-0	005	673152-0	006
Analysis Requested	Field Id:	PH01		PH02		PH03		PH04		PH05		FS01	
Anaiysis Requesica	Depth:	3- ft		3- ft		3- ft		3- ft		3- ft		1- ft	
	Matrix:	SOIL	,	SOIL	SOIL		,	SOIL		SOIL		SOIL	
	Sampled:	09.21.2020	13:20	09.21.2020	09.21.2020 13:29		10:59	09.21.2020 12:10		09.21.2020 12:29		09.21.2020	14:46
BTEX by EPA 8021B	Extracted:	09.21.2020	17:06	09.21.2020 17:06		09.21.2020 17:06		09.21.2020 17:06		09.21.2020 17:06		09.21.2020 17:06	
	Analyzed:	09.21.2020	18:43	09.21.2020	19:05	09.21.2020	19:28	09.21.2020	19:50	09.21.2020	20:13	09.21.2020	20:35
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00198	0.00198
Toluene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00198	0.00198
Ethylbenzene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00198	0.00198
m,p-Xylenes		< 0.00400	0.00400	< 0.00398	0.00398	< 0.00399	0.00399	< 0.00402	0.00402	< 0.00396	0.00396	< 0.00396	0.00396
o-Xylene		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00198	0.00198
Total Xylenes		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	< 0.00198	0.00198	< 0.00198	0.00198
Total BTEX		< 0.00200	0.00200	< 0.00199	0.00199	< 0.00200	0.00200	< 0.00201	0.00201	<0.00198 0.00198		< 0.00198	0.00198
Chloride by EPA 300	Extracted:	09.22.2020	09:23	09.22.2020 09:23		09.22.2020	09:23	09.22.2020	09:23	09.22.2020 09:23		09.22.2020 09:23	
	Analyzed:	09.22.2020	11:55	09.22.2020	12:22	09.22.2020 12:28		09.22.2020 12:33		09.22.2020 12:39		09.22.2020 12:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		30.5	9.92	<10.0	10.0	416	10.0	<10.0	10.0	20.7	9.98	217	9.94
TPH by SW8015 Mod	Extracted:	09.21.2020	16:50	09.21.2020	16:50	09.21.2020	16:50	09.21.2020	16:50	09.21.2020	16:50	09.21.2020	16:50
	Analyzed:	09.21.2020	18:39	09.21.2020	18:59	09.21.2020	19:19	09.21.2020	19:40	09.21.2020	20:00	09.21.2020	20:20
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		< 50.2	50.2	< 50.1	50.1	< 50.1	50.1	< 50.0	50.0	<50.1	50.1	< 50.1	50.1
Diesel Range Organics (DRO)		< 50.2	50.2	< 50.1	50.1	< 50.1	50.1	< 50.0	50.0	< 50.1	50.1	< 50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		< 50.2	50.2	<50.1	50.1	< 50.1	50.1	< 50.0	50.0	<50.1	50.1	< 50.1	50.1
Total GRO-DRO		< 50.2	50.2	< 50.1	50.1	< 50.1	50.1	< 50.0	50.0	< 50.1	50.1	< 50.1	50.1
Total TPH		< 50.2	50.2	< 50.1	50.1	< 50.1	50.1	< 50.0	50.0	<50.1	50.1	< 50.1	50.1

BRL - Below Reporting Limit

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





# **Analytical Report 673152**

for

LT Environmental, Inc.

Project Manager: Dan Moir

Remuda South 25 #126H 012919260 09.24.2020

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)



09.24.2020

Project Manager: **Dan Moir LT Environmental, Inc.**4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 673152

Remuda South 25 #126H Project Address: Eddy County

#### Dan Moir:

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) 673152. 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. 673152 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 673152**

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
PH01	S	09.21.2020 13:20	3 ft	673152-001
PH02	S	09.21.2020 13:29	3 ft	673152-002
PH03	S	09.21.2020 10:59	3 ft	673152-003
PH04	S	09.21.2020 12:10	3 ft	673152-004
PH05	S	09.21.2020 12:29	3 ft	673152-005
FS01	S	09.21.2020 14:46	1 ft	673152-006

#### Page 103 of 139

#### **CASE NARRATIVE**

eurofins **Environment Testing** Xenco

Client Name: LT Environmental, Inc. Project Name: Remuda South 25 #126H

Project ID: Report Date: 09.24.2020 012919260 Work Order Number(s): 673152 Date Received: 09.21.2020

Sample receipt non conformances and comments:

V1.001 Revision - Corrected sample depth on FS01 to 1'

Sample receipt non conformances and comments per sample:

None

## Certificate of Analytical Results 673152

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: PH01 Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-001 Date Collected: 09.21.2020 13:20 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.22.2020 09:23 Basis: Wet Weight

Seq Number: 3137776

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 30.5
 9.92
 mg/kg
 09.22.2020 11:55
 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.21.2020 16:50 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.2	50.2		mg/kg	09.21.2020 18:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.2	50.2		mg/kg	09.21.2020 18:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.2	50.2		mg/kg	09.21.2020 18:39	U	1
Total GRO-DRO	PHC628	< 50.2	50.2		mg/kg	09.21.2020 18:39	U	1
Total TPH	PHC635	< 50.2	50.2		mg/kg	09.21.2020 18:39	U	1
Surrogate	C	as Number 9	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	100	%	70-135	09.21.2020 18:39
o-Terphenyl	84-15-1	93	%	70-135	09.21.2020 18:39

# **Certificate of Analytical Results 673152**

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: PH01 Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-001 Date Collected: 09.21.2020 13:20 Sample Depth: 3 ft

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

Tech: MAB % Moisture:

540-36-3

Analyst: MAB Date Prep: 09.21.2020 17:06 Basis: Wet Weight

Seq Number: 3137712

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	09.21.2020 18:43	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.21.2020 18:43	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	87	%	70-130	09.21.2020 18:43		

99

70-130

09.21.2020 18:43

#### **Certificate of Analytical Results 673152**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

09.22.2020 09:23

Sample Id: **PH02** Matrix: Soil

16887-00-6

Date Received:09.21.2020 16:31

Wet Weight

U

1

Lab Sample Id: 673152-002 Date Collected: 09.21.2020 13:29 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

Basis:

mg/kg

MAB Tech:

09.22.2020 12:22

% Moisture:

Seq Number: 3137776

Analyst:

Chloride

MAB

Result **Parameter** Cas Number RLUnits **Analysis Date** Dil Flag

10.0

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Date Prep:

<10.0

DTH Tech:

Analyst: DTH Basis: Date Prep: 09.21.2020 16:50

Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.21.2020 18:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	09.21.2020 18:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	09.21.2020 18:59	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	09.21.2020 18:59	U	1
Total TPH	PHC635	< 50.1	50.1		mg/kg	09.21.2020 18:59	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	97	%	70-135	09.21.2020 18:59		
o-Terphenyl		84-15-1	92	%	70-135	09.21.2020 18:59		

# **Certificate of Analytical Results 673152**

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: PH02 Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-002 Date Collected: 09.21.2020 13:29 Sample Depth: 3 ft

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

Tech: MAB % Moisture:

460-00-4

Analyst: MAB Date Prep: 09.21.2020 17:06 Basis: Wet Weight

Seq Number: 3137712

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	09.21.2020 19:05	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
Total Xylenes	1330-20-7	< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	09.21.2020 19:05	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	:	540-36-3	101	%	70-130	09.21.2020 19:05		

92

%

70-130

09.21.2020 19:05

**PH03** 

Analytical Method: Chloride by EPA 300

#### Certificate of Analytical Results 673152

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Soil

Lab Sample Id: 673152-003 Date Collected: 09.21.2020 10:59 Sample Depth: 3 ft

Matrix:

Prep Method: E300P

Date Received:09.21.2020 16:31

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.22.2020 09:23 Basis: Wet Weight

Seq Number: 3137776

Sample Id:

 Parameter
 Cas Number
 Result
 RL
 Units
 Analysis Date
 Flag
 Dil

 Chloride
 16887-00-6
 416
 10.0
 mg/kg
 09.22.2020 12:28
 1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH % Moisture:

Analyst: DTH Date Prep: 09.21.2020 16:50 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.21.2020 19:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	09.21.2020 19:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	09.21.2020 19:19	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	09.21.2020 19:19	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.21.2020 19:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	96	0/0	70-135	09 21 2020 19:19		

# Certificate of Analytical Results 673152

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: PH03 Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-003 Date Collected: 09.21.2020 10:59 Sample Depth: 3 ft

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

Tech: MAB % Moisture:

460-00-4

Analyst: MAB Date Prep: 09.21.2020 17:06 Basis: Wet Weight

Seq Number: 3137712

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	09.21.2020 19:28	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.21.2020 19:28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.21.2020 19:28		

90

70-130

09.21.2020 19:28

**PH04** 

## **Certificate of Analytical Results 673152**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: Matrix: Soil

Lab Sample Id: 673152-004 Date Collected: 09.21.2020 12:10 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Date Received:09.21.2020 16:31

Wet Weight

MAB % Moisture:

MAB Analyst: Date Prep: 09.22.2020 09:23 Basis:

Seq Number: 3137776

Tech:

Parameter	Cas Number	Result	RL	Units	<b>Analysis Date</b>	Flag	Dil
Chloride	16887-00-6	<10.0	10.0	mg/kg	09.22.2020 12:33	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

DTH % Moisture: Tech:

Analyst: DTH Basis: Wet Weight Date Prep: 09.21.2020 16:50

Parameter	Cas Numbe	r Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.0	50.0		mg/kg	09.21.2020 19:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.0	50.0		mg/kg	09.21.2020 19:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.0	50.0		mg/kg	09.21.2020 19:40	U	1
Total GRO-DRO	PHC628	< 50.0	50.0		mg/kg	09.21.2020 19:40	U	1
Total TPH	PHC635	<50.0	50.0		mg/kg	09.21.2020 19:40	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	94	%	70-135	09.21.2020 19:40		
o-Terphenyl		84-15-1	89	%	70-135	09.21.2020 19:40		



# Certificate of Analytical Results 673152

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: **PH04** Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-004 Date Collected: 09.21.2020 12:10 Sample Depth: 3 ft

Prep Method: SW5035A

09.21.2020 19:50

% Moisture:

Tech: MAB MAB Analyst: Date Prep: 09.21.2020 17:06 Basis: Wet Weight

460-00-4

Seq Number: 3137712

4-Bromofluorobenzene

Analytical Method: BTEX by EPA 8021B

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	09.21.2020 19:50	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
Total Xylenes	1330-20-7	< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	09.21.2020 19:50	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	09.21.2020 19:50		

91

%

70-130

## **Certificate of Analytical Results 673152**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: PH05 Matrix: Soil

Date Received:09.21.2020 16:31

Lab Sample Id: 673152-005 Date Collected: 09.21.2020 12:29 Sample Depth: 3 ft

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: MAB % Moisture:

MAB Analyst:

Date Prep: 09.22.2020 09:23 Basis:

Wet Weight

Seq Number: 3137776

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	20.7	9.98	mg/kg	09.22.2020 12:39		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

09.21.2020 20:00

70-135

% Moisture:

Tech:

Analyst:

DTH DTH

Date Prep: 09.21.2020 16:50 Basis: Wet Weight

Seq Number: 3137717

o-Terphenyl

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	09.21.2020 20:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	09.21.2020 20:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	09.21.2020 20:00	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	09.21.2020 20:00	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.21.2020 20:00	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	95	%	70-135	09.21.2020 20:00		

90

84-15-1

# **Certificate of Analytical Results 673152**

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: PH05 Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-005 Date Collected: 09.21.2020 12:29 Sample Depth: 3 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.21.2020 17:06 Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	09.21.2020 20:13	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.21.2020 20:13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	09.21.2020 20:13		
1,4-Difluorobenzene		540-36-3	88	%	70-130	09.21.2020 20:13		

**FS01** 

Analytical Method: Chloride by EPA 300

## **Certificate of Analytical Results 673152**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-006 Date Collected: 09.21.2020 14:46 Sample Depth: 1 ft

Prep Method: E300P

Tech: MAB % Moisture:

% Moisture:

MAB Analyst: Date Prep: 09.22.2020 09:23 Basis: Wet Weight

Seq Number: 3137776

Sample Id:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	217	9.94	mg/kg	09.22.2020 12:44		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

 $\operatorname{DTH}$ Tech:

Analyst: DTH Basis: Wet Weight Date Prep: 09.21.2020 16:50

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	09.21.2020 20:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	09.21.2020 20:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	09.21.2020 20:20	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	09.21.2020 20:20	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.21.2020 20:20	U	1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	<b>Analysis Date</b>	
1-Chlorooctane	111-85-3	93	%	70-135	09.21.2020 20:20	
o-Terphenyl	84-15-1	86	%	70-135	09.21.2020 20:20	

**Environment Testing** 

# Certificate of Analytical Results 673152

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: FS01 Matrix: Soil Date Received:09.21.2020 16:31

Lab Sample Id: 673152-006 Date Collected: 09.21.2020 14:46 Sample Depth: 1 ft

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

Tech: MAB % Moisture:

460-00-4

Analyst: MAB Date Prep: 09.21.2020 17:06 Basis: Wet Weight

Seq Number: 3137712

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
m,p-Xylenes	179601-23-1	< 0.00396	0.00396		mg/kg	09.21.2020 20:35	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	09.21.2020 20:35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	99	%	70-130	09.21.2020 20:35		

88

%

70-130

09.21.2020 20:35



# **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.

**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

<sup>\*\*</sup> Surrogate recovered outside laboratory control limit.

#### **QC Summary** 673152

#### eurofins **Environment Testing** Xenco

#### LT Environmental, Inc.

Remuda South 25 #126H

Analytical Method: Chloride by EPA 300

E300P Prep Method:

Seq Number: 3137776 Date Prep: 09.22.2020

7711799-1-BLK MB Sample Id:

Matrix: Solid LCS Sample Id: 7711799-1-BKS

LCSD Sample Id: 7711799-1-BSD

**Parameter** 

MB Spike Result Amount

LCSD LCSD Result %Rec

253

RPD %RPD Units Limit

20

RPD

Limit

20

Prep Method:

20

Analysis Flag Date

Chloride

<10.0 250

LCS %Rec 101

LCS

252

231

Result

90-110 101

Limits

0

mg/kg

09.22.2020 10:01

Analytical Method: Chloride by EPA 300

3137776

Matrix: Soil

Prep Method: Date Prep: 09.22.2020

E300P

Seq Number: Parent Sample Id:

673152-001

MS Sample Id: 673152-001 S

MSD Sample Id: 673152-001 SD

**Parameter** 

Chloride

Chloride

Parent Spike Result Amount

199

198

30.5

MS MS Result %Rec

MSD MSD Result %Rec

102

Limits %RPD

1

Units

Analysis Flag Date

09.22.2020 12:00

101

90-110

90-110

mg/kg

mg/kg

E300P

Analytical Method: Chloride by EPA 300 Seq Number: Parent Sample Id:

3137776

Matrix: Soil

110

673161-001 S

234

Date Prep:

09.22.2020 MSD Sample Id: 673161-001 SD

**Parameter** 

673161-001 Spike **Parent** Result Amount

385

MS Sample Id: MS MS Result %Rec

602

MSD Result

587

**MSD** Limits %Rec 100

**RPD** %RPD Limit

3

Units Analysis

Flag Date 09.22.2020 10:20

Analytical Method: TPH by SW8015 Mod

3137717

Matrix: Solid

Prep Method: Date Prep:

SW8015P 09.21.2020

Seq Number: MB Sample Id:

7711777-1-BLK

LCS Sample Id: 7711777-1-BKS LCSD Sample Id: 7711777-1-BSD

**Parameter** 

MB

LCS LCS

Gasoline Range Hydrocarbons (GRO)

Result Amount < 50.0 1000

84

Result %Rec LCSD LCSD Limits %Rec Result

%RPD **RPD** Units

35

Analysis

Diesel Range Organics (DRO)

< 50.0 1000

848 85 872 87

94

83

811

81 70-135

Limit 35 4

Limits

70-135

70-135

Date

09.21.2020 12:16 mg/kg

**Surrogate** 

1-Chlorooctane

o-Terphenyl

MB%Rec 88

MB Flag

Spike

LCS LCS Flag %Rec

832 83

70-135

5

mg/kg

09.21.2020 12:16

LCSD

80

LCSD Flag %Rec 93

%

Units

%

Date

09.21.2020 12:16 09.21.2020 12:16

Analysis

3137717

Analytical Method: TPH by SW8015 Mod

Matrix: Solid

Prep Method:

SW8015P

**Parameter** 

Seq Number:

MBResult

MB Sample Id: 7711777-1-BLK

Date Prep: 09.21.2020

Analysis

Flag

Flag

Motor Oil Range Hydrocarbons (MRO)

< 50.0

Units mg/kg

Date 09.21.2020 11:56

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

Flag



Seq Number:

Seq Number:

MB Sample Id:

Parent Sample Id:

#### LT Environmental, Inc.

673152

Remuda South 25 #126H

Analytical Method: TPH by SW8015 Mod

3137717

MS Sample Id: 673097-001 S 673097-001

SW8015P Prep Method:

Date Prep:

MSD Sample Id: 673097-001 SD

09.21.2020

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.1 1000 852 85 35 09.21.2020 13:17 846 85 70-135 1 mg/kg 70-135 09.21.2020 13:17 Diesel Range Organics (DRO) 68.8 1000 948 88 964 2 35 mg/kg 90

Matrix: Soil

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 09.21.2020 13:17 1-Chlorooctane 108 107 70-135 % 09.21.2020 13:17 o-Terphenyl 93 93 70-135 %

Analytical Method: BTEX by EPA 8021B

3137712

7711754-1-BLK

Matrix: Solid

Prep Method:

SW5035A

7711754-1-BSD

Date Prep: 09.21.2020

LCS Sample Id: 7711754-1-BKS LCSD Sample Id:

MB Spike LCS LCS LCSD Limits %RPD **RPD** Units Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 09.21.2020 11:38 < 0.00200 0.100 0.0978 98 0.104 70-130 35 Benzene 104 6 mg/kg 09.21.2020 11:38 Toluene < 0.00200 0.100 0.0948 95 0.101 101 70-130 6 35 mg/kg 0.100 0.0885 89 0.0941 94 71-129 35 09.21.2020 11:38 Ethylbenzene < 0.00200 6 mg/kg 09.21.2020 11:38 < 0.00400 0.200 0.179 90 0.191 96 70-135 6 35 m,p-Xylenes mg/kg 09.21.2020 11:38 < 0.00200 0.100 0.0873 87 0.0933 71-133 35 o-Xylene 93 mg/kg

MB MB LCS LCS LCSD Limits LCSD Units Analysis Surrogate %Rec Flag %Rec Flag Flag Date %Rec 09.21.2020 11:38 1,4-Difluorobenzene 100 99 99 70-130 % 89 93 70-130 % 09.21.2020 11:38 4-Bromofluorobenzene 86

Analytical Method: BTEX by EPA 8021B

Seq Number: 3137712 Parent Sample Id:

673097-001

Matrix: Soil MS Sample Id:

673097-001 S

SW5035A Prep Method:

Date Prep: 09.21.2020

MSD Sample Id: 673097-001 SD

RPD Parent Spike MS MS MSD **MSD** Limits %RPD Units Analysis **Parameter** Limit Date Result Amount Result %Rec %Rec Result 09.21.2020 12:23 < 0.00201 0.101 0.121 120 0.122 70-130 35 Benzene 121 1 mg/kg 09.21.2020 12:23 70-130 35 Toluene < 0.00201 0.101 0.111 110 0.127 126 13 mg/kg Ethylbenzene < 0.00201 0.101 0.0935 93 0.118 117 71-129 23 35 09.21.2020 12:23 mg/kg 93 35 09.21.2020 12:23 m,p-Xylenes < 0.00402 0.201 0.187 0.238 118 70-135 24 mg/kg < 0.00201 0.101 0.0916 91 0.116 71-133 35 mg/kg 09.21.2020 12:23 o-Xylene 115 24

MS MS **MSD MSD** Limits Units Analysis Surrogate Flag Flag %Rec %Rec Date 09.21.2020 12:23 1,4-Difluorobenzene 100 98 70-130 % 09.21.2020 12:23 4-Bromofluorobenzene 92 85 70-130 %

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

Phone:

(432) 236-3849 Midland, Tx 79705 3300 North A Street LT Environmental, Inc.,

Email: wmather@ltenv.com, dmoir@ltenv.com

Deliverables: EDD

Program: UST/PST State of Project:

> □RP □rownfields □RC Work Order Comments

¶perfund

ADaPT |

City, State ZIP:

City, State ZIP: Address: Company Name:

P	age 119 of 139
Project Manager:	8



Dan Moir

Permian office

Bill to: (if different) Company Name:

Kyle Littrell XTO Energy

# Chain of Custody

Work Order No: 673153

www.xenco.com

Page

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Hobbs.NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) 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

eceived	Service of the servic	Rejulgaisned by: (Signature)	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 for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such the cost of samples are such as the cost of samples are suc	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010		2,04	1	FS01	PH05	PH04	PH03	PH02	PHOT	Sample Identification	sample custody seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:
	N C	ature)	75.00 will be applied to	Metal(s) to be an	200 8 / 6020-	,	1		S	S	S	S	S	S		Yes Wo N/A	No.	CYes No	h.t/9.t	Temp Blank:	William Mather	Eddy	Ø12919260	Remuda South 25 #126H
	le Cat	Received by: (Signature)	es and shall not ass each project and a c	alyzed TCLP		1			9/21/2020	9/21/2020	9/21/2020	9/21/2020		9/21/2020	Date Sampled	Total C	Correcti	7-102	The	K: We No	Mather	ly	260	h 25 #126H
	took	(Signature)	way a valid purchase order fro ume any responsibility for a charge of \$5 for each sample	TCLP / SPLP 6010: 8RCRA		3			14:46 1'	12:29 3'	12:10 3'	10:59 3'	13:29 3'	13:20 3'	Time Depth	Total Containers:	Correction Factor: -0.3	ESST WIN-	Thermometer ID	Wet Ice: Yes No	Due Date:	Rush:	Routine	Turn Around
	7-21-26 16:31	Date/Time	m client company to Xenco, in losses or expenses incur submitted to Xenco, but not	11 Al Sb As Ba Be CRA Sb As Ba Be					1 × ×	1 × ×	1 × ×	-1 ×	1 ×	× ×	Numb	PA 80	)15) )=80	21)						
0 4	2	Relinquished by: (Signature)	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.	B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U					^	×	×	×	×	×	Chloric	le (EP	'A 30	00.0						ANALYSIS REQUEST
		Received by: (Signature)	rd terms and conditions tances beyond the control eviously negotiated.	\g SiO2												TA								
		Date/Time		Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg				Composite	Discrete	Discrete	Discrete	Discrete	Discrete	Discrete	Sample Comments	TAT starts the day recevied by the lab, if received by 4:30pm								Work Order Notes

# **Eurofins Xenco, LLC**

## Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Acceptable Temperature Range: 0 - 6 degC

Date/ Time Received: 09.21.2020 04.31.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 673152

Analyst:

Temperature Measuring device used: T\_NM\_007

	Sample Receipt Checklist		Comments			
#1 *Temperature of cooler(s)?		7.4				
#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	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: 09.21.2020
Checklist reviewed by:	Jessica Warmer	Date: 09.23.2020

PH Device/Lot#:

eurofins Environment Testing

# Certificate of Analysis Summary 673230

LT Environmental, Inc., Arvada, CO

Project Name: Remuda South 25 #126H

**Project Id: Contact:** 

**Project Location:** 

012919260

Dan Moir **Eddy County**  **Date Received in Lab:** Tue 09.22.2020 13:25

**Report Date:** 09.23.2020 14:07

Project Manager: Jessica Kramer

	Lab Id:	673230-0	001	673230-0	02	673230-0	003	673230-0	004		
							,03				
Analysis Requested	Field Id:	SS07		SS08		SS09		SS010			
	Depth:	0.5- ft		0.5- ft		0.5- ft		0.5- ft	t		
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	09.21.2020	09.21.2020 12:01		09.22.2020 10:22		11:22	09.21.2020	14:05		
BTEX by EPA 8021B	Extracted:	09.22.2020	14:30	09.22.2020	14:30	09.22.2020	14:30	09.22.2020	14:30		
	Analyzed:	09.22.2020	18:19	09.22.2020	18:42	09.22.2020	19:04	09.22.2020	19:27		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200		
Toluene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200		
Ethylbenzene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200		
m,p-Xylenes		< 0.00400	0.00400	< 0.00399	0.00399	< 0.00401	0.00401	< 0.00401	0.00401		
o-Xylene		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200		
Total Xylenes		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200		
Total BTEX		< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00200	0.00200		
Chloride by EPA 300	Extracted:	09.22.2020	16:30	09.22.2020	16:30	09.22.2020	16:30	09.22.2020	16:30		
	Analyzed:	** ** **	**	09.22.2020	16:43	09.22.2020	16:51	09.22.2020	16:58		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		96.2	49.9	205	10.0	494	50.5	480	49.5		
TPH by SW8015 Mod	Extracted:	09.22.2020	14:10	09.22.2020	14:10	09.22.2020	14:10	09.22.2020	14:10		
	Analyzed:	09.22.2020	14:53	09.22.2020	15:13	09.22.2020	15:33	09.22.2020	15:53		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	< 50.1	50.1	<49.9	49.9	<49.8	49.8		
Diesel Range Organics (DRO)		<49.8	49.8	< 50.1	50.1	57.1	49.9	<49.8	49.8		
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.1	50.1	<49.9	49.9	<49.8	49.8		
Total GRO-DRO		<49.8	49.8	<50.1	50.1	57.1	49.9	<49.8	49.8		
Total TPH		<49.8	49.8	<50.1	50.1	57.1	49.9	<49.8	49.8		

BRL - Below Reporting Limit

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

Jessica Weamer



# **Analytical Report 673230**

for

# LT Environmental, Inc.

Project Manager: Dan Moir

Remuda South 25 #126H 012919260 09.23.2020

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)



09.23.2020

Project Manager: **Dan Moir LT Environmental, Inc.**4600 W. 60th Avenue
Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): 673230

Remuda South 25 #126H Project Address: Eddy County

#### Dan Moir:

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) 673230. 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. 673230 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 673230**

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id	Matrix	<b>Date Collected</b>	Sample Depth	Lab Sample Id
SS07	S	09.21.2020 12:01	0.5 ft	673230-001
SS08	S	09.22.2020 10:22	0.5 ft	673230-002
SS09	S	09.22.2020 11:22	0.5 ft	673230-003
SS010	S	09.21.2020 14:05	0.5 ft	673230-004

#### Page 125 of 139 **CASE NARRATIVE**

Client Name: LT Environmental, Inc. Project Name: Remuda South 25 #126H

Project ID: Report Date: 09.23.2020 012919260 Work Order Number(s): 673230 Date Received: 09.22.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

## Certificate of Analytical Results 673230

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS07 Matrix: Soil Date Received:09.22.2020 13:25

Lab Sample Id: 673230-001 Date Collected: 09.21.2020 12:01 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

Analyst: MAB Date Prep: 09.22.2020 16:30 Basis: Wet Weight

Seq Number: 3137842

MAB

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	96.2	49.9	mg/kg	09.22.2020 16:21		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH

Analyst: DTH Date Prep: 09.22.2020 14:10 Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	09.22.2020 14:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8		mg/kg	09.22.2020 14:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	09.22.2020 14:53	U	1
Total GRO-DRO	PHC628	<49.8	49.8		mg/kg	09.22.2020 14:53	U	1
Total TPH	PHC635	<49.8	49.8		mg/kg	09.22.2020 14:53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date
1-Chlorooctane	111-85-3	103	%	70-135	09.22.2020 14:53
o-Terphenyl	84-15-1	100	%	70-135	09.22.2020 14:53

# Certificate of Analytical Results 673230

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS07 Matrix: Soil Date Received:09.22.2020 13:25

Lab Sample Id: 673230-001 Date Collected: 09.21.2020 12:01 Sample Depth: 0.5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.22.2020 14:30 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.22.2020 18:19	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.22.2020 18:19	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.22.2020 18:19	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	09.22.2020 18:19	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.22.2020 18:19	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.22.2020 18:19	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.22.2020 18:19	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.22.2020 18:19		
4-Bromofluorobenzene		460-00-4	92	%	70-130	09.22.2020 18:19		

## Certificate of Analytical Results 673230

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS08 Matrix: Soil

Lab Sample Id: 673230-002 Date Collected: 09.22.2020 10:22 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

. . . . .

% Moisture:

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.22.2020 16:30

Basis: Wet Weight

Date Received:09.22.2020 13:25

Seq Number: 3137842

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	205	10.0	mg/kg	09.22.2020 16:43		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH

Analyst: DTH Date Prep: 09.22.2020 14:10 Basis: Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	< 50.1	50.1		mg/kg	09.22.2020 15:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	< 50.1	50.1		mg/kg	09.22.2020 15:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	< 50.1	50.1		mg/kg	09.22.2020 15:13	U	1
Total GRO-DRO	PHC628	< 50.1	50.1		mg/kg	09.22.2020 15:13	U	1
Total TPH	PHC635	<50.1	50.1		mg/kg	09.22.2020 15:13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	104	%	70-135	09.22.2020 15:13		
o-Terphenyl		84-15-1	98	%	70-135	09.22.2020 15:13		

**Environment Testing** 

# Certificate of Analytical Results 673230

# LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS08 Matrix: Soil Date Received:09.22.2020 13:25

Lab Sample Id: 673230-002 Date Collected: 09.22.2020 10:22 Sample Depth: 0.5 ft

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

Tech: MAB % Moisture:

540-36-3

Analyst: MAB Date Prep: 09.22.2020 14:30 Basis: Wet Weight

Seq Number: 3137826

1,4-Difluorobenzene

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.22.2020 18:42	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.22.2020 18:42	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.22.2020 18:42	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	09.22.2020 18:42	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.22.2020 18:42	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.22.2020 18:42	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.22.2020 18:42	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	4	160-00-4	94	%	70-130	09.22.2020 18:42		

102

%

70-130

09.22.2020 18:42

## Certificate of Analytical Results 673230

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS09 Matrix: Soil Date Received:09.22.2020 13:25

Lab Sample Id: 673230-003 Date Collected: 09.22.2020 11:22 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

% Moisture:

% Moisture:

Analyst: MAB Date Prep: 09.22.2020 16:30 Basis: Wet Weight

Seq Number: 3137842

MAB

Tech:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	494	50.5	mg/kg	09.22.2020 16:51		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: DTH

Analyst: DTH Date Prep: 09.22.2020 14:10 Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	09.22.2020 15:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	57.1	49.9		mg/kg	09.22.2020 15:33		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	09.22.2020 15:33	U	1
Total GRO-DRO	PHC628	57.1	49.9		mg/kg	09.22.2020 15:33		1
Total TPH	PHC635	57.1	49.9		mg/kg	09.22.2020 15:33		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	99	%	70-135	09.22.2020 15:33		
o-Terphenyl		84-15-1	95	%	70-135	09.22.2020 15:33		

**Environment Testing** 

# Certificate of Analytical Results 673230

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS09 Matrix: Soil Date Received:09.22.2020 13:25

Lab Sample Id: 673230-003 Date Collected: 09.22.2020 11:22 Sample Depth: 0.5 ft

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

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 09.22.2020 14:30 Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.22.2020 19:04	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.22.2020 19:04	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.22.2020 19:04	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	09.22.2020 19:04	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.22.2020 19:04	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.22.2020 19:04	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.22.2020 19:04	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	88	%	70-130	09.22.2020 19:04		
1,4-Difluorobenzene		540-36-3	103	%	70-130	09.22.2020 19:04		

**SS010** 

MAB

## **Certificate of Analytical Results 673230**

#### LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

09.22.2020 16:30

Basis:

Wet Weight

Sample Id: Matrix: Soil Date Received:09.22.2020 13:25

Lab Sample Id: 673230-004 Date Collected: 09.21.2020 14:05 Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Date Prep:

MAB % Moisture:

Tech:

Seq Number: 3137842

Analyst:

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	480	49.5	mg/kg	09.22.2020 16:58		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

DTH % Moisture: Tech:

Analyst: DTH Basis: Wet Weight Date Prep: 09.22.2020 14:10

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	3 49.8		mg/kg	09.22.2020 15:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	3 49.8		mg/kg	09.22.2020 15:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	3 49.8		mg/kg	09.22.2020 15:53	U	1
Total GRO-DRO	PHC628	<49.8	3 49.8		mg/kg	09.22.2020 15:53	U	1
Total TPH	PHC635	<49.8	3 49.8		mg/kg	09.22.2020 15:53	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	98	%	70-135	09.22.2020 15:53		
o-Terphenyl		84-15-1	94	%	70-135	09.22.2020 15:53		

# Certificate of Analytical Results 673230

## LT Environmental, Inc., Arvada, CO

Remuda South 25 #126H

Sample Id: SS010 Matrix: Soil Date Received:09.22.2020 13:25

Lab Sample Id: 673230-004 Date Collected: 09.21.2020 14:05 Sample Depth: 0.5 ft

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

Tech: MAB % Moisture:

460-00-4

Analyst: MAB Date Prep: 09.22.2020 14:30 Basis: Wet Weight

Seq Number: 3137826

4-Bromofluorobenzene

Parameter	Cas Number	Result	RL		Units	<b>Analysis Date</b>	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	09.22.2020 19:27	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	09.22.2020 19:27	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	09.22.2020 19:27	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	09.22.2020 19:27	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	09.22.2020 19:27	U	1
Total Xylenes	1330-20-7	< 0.00200	0.00200		mg/kg	09.22.2020 19:27	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	09.22.2020 19:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	09.22.2020 19:27		

89

%

70-130

09.22.2020 19:27



# **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** 673230

#### eurofins **Environment Testing** Xenco

#### LT Environmental, Inc.

Remuda South 25 #126H

Result

252

Analytical Method: Chloride by EPA 300

Seq Number: 3137842

7711862-1-BLK

Matrix: Solid LCS Sample Id: 7711862-1-BKS

%Rec

101

Prep Method:

Limit

20

E300P

Date Prep: 09.22.2020

LCSD Sample Id: 7711862-1-BSD

RPD Units Analysis

**Parameter** Chloride

MB Sample Id:

MB Result Amount

<10.0

LCS LCS

Result

252

LCSD LCSD %Rec

101

Limits %RPD

0

90-110

mg/kg

Flag Date

Analytical Method: Chloride by EPA 300

Spike

250

Matrix: Soil

Prep Method: Date Prep:

E300P 09.22.2020

Seq Number: Parent Sample Id: 3137842 673230-001

673230-001 S MS Sample Id:

MSD Sample Id: 673230-001 SD

**Parameter** 

Parent Spike Result Amount

MS MS Result %Rec

MSD Result

MSD Limits %Rec

%RPD RPD Units Limit

Analysis

09.22.2020 16:10

Chloride

96.2

295 99 290 98

90-110

20 2

mg/kg

Flag Date 09.22.2020 16:27

Analytical Method: Chloride by EPA 300

3137842

198

200

Matrix: Soil

95

Prep Method: Date Prep: E300P

09.22.2020

Seq Number: Parent Sample Id:

673274-003

MS Sample Id:

673274-003 S

1040

MSD Sample Id: 673274-003 SD

Units

mg/kg

**Parameter** 

Spike **Parent** Result Amount

861

MS MS Result %Rec

1050

MSD Result

**MSD** %Rec 90 90-110

Limits

**RPD** %RPD Limit 1

Analysis Flag Date

09.22.2020 18:06

Chloride

Analytical Method: TPH by SW8015 Mod

3137782

SW8015P

Matrix: Solid

Date Prep:

09.22.2020

Seq Number:

MB Sample Id:

7711834-1-BLK

LCS Sample Id:

7711834-1-BKS

LCSD Sample Id: 7711834-1-BSD

Prep Method:

20

MB Spike LCS LCS LCSD LCSD Limits %RPD **RPD** Units **Parameter** Result Limit Result Amount %Rec %Rec Result 35 0

Gasoline Range Hydrocarbons (GRO) Diesel Range Organics (DRO)

< 50.0 1000 < 50.0 1000

913

912

91 70-135

Analysis Date

09.22.2020 10:15 mg/kg

MB

MB

Flag

91 918 92

926

93 70-135

09.22.2020 10:15

**Surrogate** 

%Rec

91

LCS %Rec LCS

35 1

mg/kg

1-Chlorooctane

o-Terphenyl

96

101 86

Flag

LCSD LCSD %Rec

104

90

Limits Flag

70-135

70-135

Units Analysis

%

%

Date 09.22.2020 10:15 09.22.2020 10:15

3137782

Analytical Method: TPH by SW8015 Mod

Matrix: Solid

Prep Method: Date Prep: SW8015P 09.22.2020

Flag

Flag

**Parameter** 

Seq Number:

MBResult

< 50.0

MB Sample Id: 7711834-1-BLK

Units

mg/kg

Analysis Date

09.22.2020 09:54

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

Log Difference

Motor Oil Range Hydrocarbons (MRO)

[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 Seq Number:

Seq Number:

Seq Number:

Parent Sample Id:

MB Sample Id:

Parent Sample Id:

Diesel Range Organics (DRO)

#### **QC Summary** 673230

#### LT Environmental, Inc.

Remuda South 25 #126H

Analytical Method: TPH by SW8015 Mod

3137782

< 50.2

673161-001

Matrix: Soil

MS Sample Id:

856

SW8015P Prep Method:

Date Prep: 09.22.2020

mg/kg

673161-001 S

70-135

2.

88

MSD Sample Id: 673161-001 SD

35

RPD **Parent** Spike MS MS Limits %RPD Units Analysis MSD MSD Flag **Parameter** Result Amount Result %Rec Result %Rec Limit Date Gasoline Range Hydrocarbons (GRO) < 50.2 1000 838 84 35 09.22.2020 11:15 859 86 70-135 2 mg/kg

874

MS MS MSD MSD Limits Units Analysis **Surrogate** Flag Flag Date %Rec %Rec 09.22.2020 11:15 1-Chlorooctane 108 111 70-135 % 09.22.2020 11:15 o-Terphenyl 94 96 70-135 %

86

Analytical Method: BTEX by EPA 8021B

3137826

Matrix: Solid

1000

Prep Method:

SW5035A

09.22.2020 11:15

Flag

Flag

Date Prep: 09.22.2020

LCS Sample Id: 7711823-1-BKS 7711823-1-BLK

LCSD Sample Id: 7711823-1-BSD

MB Spike LCS LCS LCSD Limits %RPD **RPD** Units Analysis LCSD **Parameter** Result Amount Result %Rec Result %Rec Limit Date 09.22.2020 10:52 < 0.00200 0.100 0.112 112 0.103 8 35 Benzene 103 70-130 mg/kg 09.22.2020 10:52 Toluene < 0.00200 0.100 0.108 108 0.0992 99 70-130 8 35 mg/kg 09.22.2020 10:52 0.100 0.101 101 0.0923 92 71-129 9 35 Ethylbenzene < 0.00200 mg/kg 09.22.2020 10:52 < 0.00400 0.200 0.202 101 0.186 93 70-135 8 35 m,p-Xylenes mg/kg 09.22.2020 10:52 < 0.00200 0.100 0.100 100 0.0922 92 71-133 8 35 o-Xylene mg/kg

Limits MB MB LCS LCS LCSD LCSD Units Analysis Surrogate %Rec Flag %Rec Flag Flag Date %Rec 09.22.2020 10:52 1,4-Difluorobenzene 99 99 99 70-130 % 09.22.2020 10:52 87 92 70-130 % 4-Bromofluorobenzene 86

Analytical Method: BTEX by EPA 8021B

3137826 673161-001

Matrix: Soil MS Sample Id: 673161-001 S Prep Method: Date Prep:

SW5035A 09.22.2020

MSD Sample Id: 673161-001 SD

RPD Parent Spike MS MS MSD **MSD** Limits %RPD Units Analysis **Parameter** Limit Date Result Amount Result %Rec %Rec Result 09.22.2020 11:37 < 0.00200 0.100 0.123 123 0.104 70-130 17 35 Benzene 104 mg/kg 09.22.2020 11:37 70-130 35 Toluene < 0.00200 0.100 0.127 127 0.0993 99 24 mg/kg Ethylbenzene < 0.00200 0.100 0.117 117 0.0895 90 71-129 27 35 09.22.2020 11:37 mg/kg 35 09.22.2020 11:37 m,p-Xylenes < 0.00400 0.200 0.237 119 0.181 90 70-135 27 mg/kg < 0.00200 0.100 0.0885 71-133 27 35 mg/kg 09.22.2020 11:37 o-Xylene 0.116 116 89

MS MS MSD **MSD** Limits Units Analysis Surrogate Flag Flag %Rec %Rec Date 09.22.2020 11:37 1,4-Difluorobenzene 99 99 70-130 % 09.22.2020 11:37 4-Bromofluorobenzene 89 89 70-130 %

= MSD/LCSD Result

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# Chain of Custody

Work Order No: 673230

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 (-	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	.(813-620-2000) www.xenco.com Page / of /	
Project Manager: Dan Moir	Dan Moir	Bill to: (if different)	Kyle Littrell	Work Order Comments	
Company Name:	Company Name: LT Environmental, Inc., Permian office	Company Name: XTO Energy	XTO Energy	Program: UST/PST ☐RP ☐rownfields ☐RC ∰perfund ☐	
Address:	3300 North A Street	Address:		State of Project:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:		Reporting:Level II   evel III   \$T/UST   RP   evel IV	
Phone:	(432) 236-3849	Email: wmather@ltenv.com, dmoir@ltenv.con	m, dmoir@ltenv.com	Deliverables: EDD ADaPT Other:	

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 ide. 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 co. 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.	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed				1	SS10	SS09	SS08	SS07	Sample Identification	ple Custody Seals:	er Custody Seals:	eived Intact:	perature (°C):	MPLE RECEIPT	pler's Name:	Number:	ect Number:	ect Name:
nt and relinquishment nly for the cost of sam \$75.00 will be applied	200.8 / 6020: / Metal(s) to be a					o	w	s	S	ion Matrix	Yes (No) N/A	Yes AND NA	(Yes) No	3.6/3.4	Temp Blank:	William Mather	Eddy	0 12919260	Remuda South 25 #126H
of samples consti ples and shall not to each project and				1		9/21/2020	9/22/2020	9/22/2020	9/21/2020	X Sampled			t	(	ik: Yes) No	Mather	dy	)260	th 25 #126H
tutes a valid pu assume any rea d a charge of \$5	8RCRA 13PPM TCLP / SPLP 6			J		14:05	11:22	10:22	12:01	Time Sampled	Total Containers:	Correction Factor:	LUMOO	Thermometer ID	Wet Ice:	Due Date	Rush:	Routine	Tu
rchase order fro sponsibility for a for each sample	RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA		d	1		0.5'	0.5'	0.5'	0.5'	Depth	4	-0-2	7	D	(Yes) No	Date:	***	ne A	Turn Around
m client c any losses e submitte				1		_	_	_	_	Numb	er of	Co	ntai	ners				1	
ompany to or expens d to Xenco	Al Sb As Ba Be A Sb As Ba Be			1		×	×	×	×	TPH (E									
Xenco, it ses incurr o, but not	Ba Be Ba Be			+		×	×	×	×	BTEX (				)		-	-		
s affiliates ed by the analyzed.	CG C7 B CG			1															
s and subc client if su These ter	Ca Cr																		AN
contractor uch losses ms will be	B Cd Ca Cr Co Cu Cd Cr Co Cu Pb Mn		-																ANALYSIS
s. It assig are due t enforced			+																REQUEST
It assigns standard terms and conditions re due to circumstances beyond the contro forced unless previously negotiated.	S <sub>e</sub>		1																JEST
rd terms tances be eviously n	Mn Mo Ni K Ag Ti U																		
and condi yond the c regotiated	<u>∠</u>	$\mathbb{H}$	-											_					
tions	Se Ag	$\parallel$	ł			H													
	SiO2 N				F								=						
	Na Sr Ti Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg					Discrete	Discrete	Discrete	Discrete	Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the							Work Order Notes

Relinquished by: (Signature)

Received by: (Signature)

9/22/20 13:35

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

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

Date/ Time Received: 09.22.2020 01.25.00 PM

Air and Metal samples Acceptable Range: Ambient

Work Order #: 673230

Analyst:

Temperature Measuring device used: T\_NM\_007

	Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?		3.4	
#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	Samples received in bulk containers.
#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)?		No	
#18 Water VOC samples have zero headspa	ace?	N/A	

* Must be	completed for	after-hours	delivery of	samples	prior to	placing in	the r	efrigerato	16

Checklist completed by:	Cloe Clifton	Date: 09.22.2020
Checklist reviewed by:	Jessica Warmer	Date: 09.23.2020

PH Device/Lot#:

<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 14936

#### **CONDITIONS OF APPROVAL**

Operator:	OGRID:	Action Number:	Action Type:
XTO ENERGY, INC 6401 Holiday Hill Road	5380	14936	C-141
Building #5 Midland, TX79707			

OCD Reviewer	Condition
rhamlet	We have received your closure report and final C-141 for Incident #NRM2000237294 REMUDA SOUTH 25 STATE 126H, thank you. This closure is approved.