

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	NVV2003542379
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	XTO Energy	OGRID	5380
Contact Name	Kyle Littrell	Contact Telephone	432-221-7331
Contact email	Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)	NVV2003542379
Contact mailing address	522 W. Mermod, Carlsbad, NM 88220		

Location of Release Source

Latitude 32.535411 Longitude -104.206987
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	ADU Hondo Tester	Site Type	Well Location
Date Release Discovered	1/05/2020	API# (if applicable)	30-015-24388 (Avalon Delaware Unit #609)

Unit Letter	Section	Township	Range	County
D	32	20S	28E	EDDY

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 15.86	Volume Recovered (bbls) 14.25
☒ Produced Water	Volume Released (bbls) 0.83	Volume Recovered (bbls) 0.75
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The site glass on tester busted releasing approximately 15.86 bbls of oil and 0.83 bbl of produced water. Vacuum trucked was called out and recovered 14.25 bbls of oil and 0.75 bbl of produced water. Additional third party resources have been retained to assist in the remediation.

Form C-141

State of New Mexico
Oil Conservation Division

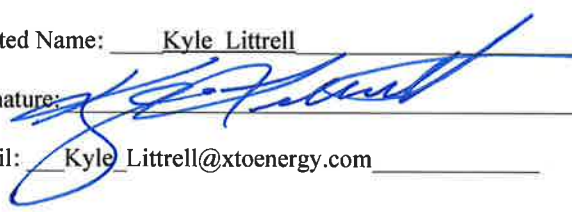
Page 2

Incident ID	NVV2003542379
District RP	
Facility ID	
Application ID	

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

Initial Response

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 release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why: N/A
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Kyle Littrell</u> Title: <u>SH&E Supervisor</u> Signature:  Date: <u>1/20/2019</u> email: <u>Kyle.Littrell@xtoenergy.com</u> Telephone: _____
OCD Only Received by: <u>Victoria Venegas</u> Date: <u>02/04/2020</u>

Location:	ADU Hondo Tester	
Spill Date:	1/5/2020	
Area 1		
Approximate Area =	2826.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	15.45	bbls
Total Produced Water =	0.81	bbls
Area 2		
Approximate Area =	7537.00	sq. ft.
Average Saturation (or depth) of spill =	0.13	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.41	bbls
Total Produced Water =	0.02	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	15.86	bbls
Total Produced Water =	0.83	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	14.25	bbls
Total Produced Water =	0.75	bbls

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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>> 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 not on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

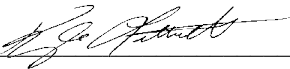
State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NVV2003542379
District RP	
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Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 3-12-2021

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: _____ Date: _____

Incident ID	NVV2003542379
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Remediation Plan

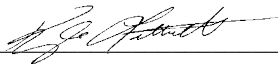
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name: Kyle Littrell Title: SH&E Supervisor
Signature:  Date: 3-12-2021
email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Chad Hensley Date: 03/18/2021

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 03/18/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 13753

CONDITIONS OF APPROVAL

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Building #5 Midland, TX79707		OGRID: 5380	Action Number: 13753	Action Type: C-141
OCD Reviewer	Condition			
chensley	OCD approves XTO installation of a 20-mil impermeable liner with a composite sample conducted prior to installation.			

Incident ID	NVV2003542379
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Facility ID	
Application ID	

Remediation Plan

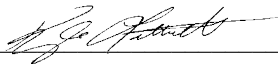
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Printed Name: Kyle Littrell Title: SH&E Supervisor
Signature:  Date: _____
email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Chad Hensley Date: 07/13/2021

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved

Signature:  Date: 07/13/2021



WSP USA

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

June 4, 2021

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

**RE: Remediation Work Plan and Deferral Request Addendum
ADU Hondo Tester
Incident Number NVV2003542379
Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP), on behalf of XTO Energy, Inc. (XTO), presents the following Addendum to the original Remediation Work Plan and Deferral Request submitted for this location on January 4, 2021. This addendum provides an update to the remediation activities completed at the ADU Hondo Tester (Site) to address impacted soil resulting from a release of produced water and crude oil at the Site. The Site is located in Unit D, Section 32, Township 20 South, Range 28 East, in Eddy County, New Mexico (Figure 1).

The Remediation Work Plan (Work Plan) and Deferral Request submitted to the New Mexico Oil Conservation Division (NMOCD) proposed to install a 20-mil impermeable liner in the subsurface to address remaining chloride impacts to soil in the pasture excavation and to defer remediation of 55 cubic yards of impacted soil on pad adjacent to active production equipment. The Work Plan and Deferral Request were approved by the NMOCD on March 18, 2021. The approved Form C-141 is included in Attachment 1. The following Addendum describes the implementation of the final remediation activities as outlined in the Work Plan and summarizes the previously approved deferral request. Based on the excavation and delineation activities, soil sample laboratory analytical results, and completion of remediation activities as outlined in the approved Work Plan, XTO is requesting no further action (NFA) for Incident Number NVV2003542379 until the facility is decommissioned or until major facility construction occurs.

RELEASE BACKGROUND

On January 5, 2020, the sight glass on a tester broke, resulting in the release of 15.86 barrels (bbls) of crude oil and 0.83 bbls of produced water onto the surface of the well pad and into the pasture area northwest of the pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; approximately 14.25 bbls of crude oil and 0.75 bbls of produced water were recovered. XTO reported the release to the NMOCD on a Form C-141 on January 20, 2020. The release was assigned Incident Number NVV2003542379.



As detailed in the approved Work Plan and based on 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): 100 mg/kg
- Chloride: 600 mg/kg

In addition, background soil sampling indicated chloride concentrations as high as 901 mg/kg occur naturally in the subsurface.

XTO responded to the release by excavating impacted soil to depths ranging from 1-foot to 4 feet below ground surface (bgs). The excavation measured approximately 4,350 square feet and approximately 460 cubic yards of impacted soil were removed from the Site. Delineation potholes and boreholes were advanced within and around the release extent to delineate the lateral and vertical extent of impacted soil. Based on laboratory analytical results for the excavation and delineation soil samples, impacted soil was removed to the extent practicable and lateral and vertical delineation was achieved.

Following delineation and excavation activities, WSP submitted the Work Plan and Deferral Request detailing the remediation work that was completed and proposing additional work to address residual chloride impacts in the subsurface. The Work Plan and Deferral Request proposed the installation of a 20-mil impermeable liner in the subsurface to address remaining chloride impacts to soil at depths greater than 4 feet bgs in the pasture excavation and deferral of remediation for 55 cubic yards of impacted soil on pad adjacent to active production equipment. The following sections describe the remediation activities completed at the Site in order to fulfill the scope of work outlined in the approved Work Plan and summarize the deferral request.

EXCAVATION ACTIVITIES AND LINER INSTALLATION

WSP personnel were at the Site to oversee excavation and liner installation as detailed in the approved Work Plan. Photo documentation was conducted during liner installation and backfill activities, and a photographic log is included in Attachment 2. Following removal of impacted soil, WSP collected 5-point composite soil samples at a frequency of at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite floor soil samples FS01 through FS21, FS01A, and FS02A were collected from the floor of the excavation at depths ranging from 1 foot to 4 feet bgs. Because the areas represented by floor samples FS20 and FS21 were so shallow (1 foot deep), those floor samples also represented the sidewall soil. Composite sidewall



samples SW01 through SW20 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4 feet bgs. The excavation extent and excavation soil sample locations are presented on Figure 2.

The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Xenco Laboratories (Eurofins Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- gasoline range organics (GRO), TPH- diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria or the naturally occurring chloride concentration of 901 mg/kg established for the Site, in all sidewall samples collected from the final excavation extent, except sample SW04 that was collected along the edge of active production equipment where soil removal was restricted. All floor samples collected from the final excavation extent on the well pad were compliant with Closure Criteria. Floor samples FS10 through FS16, FS18, and FS19 collected in the pasture excavation from a depth of 4 feet bgs, exceeded the established background concentration for chloride. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are provided in Attachment 3.

On April 21, 2021, following the approval of the Work Plan from NMOCD, WSP installed a 20-mil impermeable liner in the pasture excavation to mitigate chloride impacts by restricting vertical migration of chloride through infiltration. The liner encompassed the areas where chloride impacted soil was identified below 4 feet bgs. The liner was installed at approximately 4 feet bgs and backfilled with locally procured, non-waste containing soil. The liner extent is depicted on Figure 2. In addition, areas on pad were backfilled with non-waste containing caliche and recontoured to match previous Site conditions.

SUMMARY OF APPROVED DEFERRAL REQUEST

As outlined in the approved Work Plan and Deferral Request, approximately 460 cubic yards of impacted soil were excavated from the Site; however, residual impacted soil was left in place immediately adjacent to active production equipment and pipelines for compliance with XTO safety policy regarding earth moving activities within 2 feet of any active production equipment and pipelines. Laboratory analytical results for excavation sidewall sample SW04 indicated that soil with TPH concentrations exceeding the Closure Criteria and chloride concentrations exceeding the background concentration of 901 mg/kg was left in place immediately beneath and adjacent to the active equipment. The impacted soil remaining in place is delineated vertically and laterally as described in the approved original Work Plan and Deferral Request. An estimated 55 cubic yards of impacted soil remains in place.

District II
Page 4

WSP and XTO do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The majority of the released fluids were recovered during initial response activities, the impacted soil remaining in place is limited to the area immediately around the production equipment, and no saturated soil remains in-place. The deferral area is depicted on Figure 2. XTO will complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first.

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink, appearing to read 'Fatima Smith'.

Fatima Smith
Associate Consultant, Geologist

A handwritten signature in black ink, appearing to read 'Ashley L. Ager'.

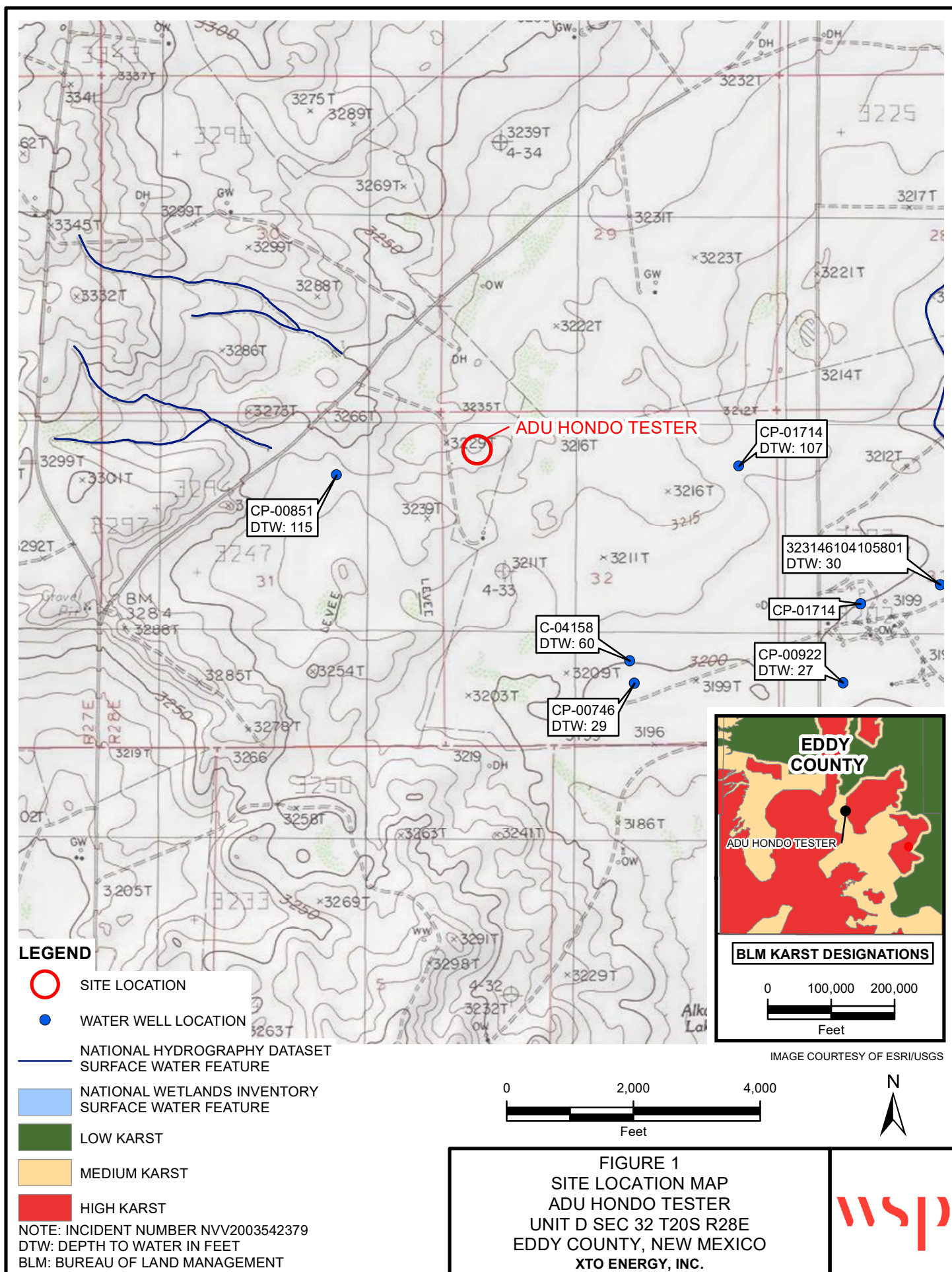
Ashley L. Ager, P.G.
Managing Director, Geologist

cc: Kyle Littrell, XTO
Bureau of Land Management

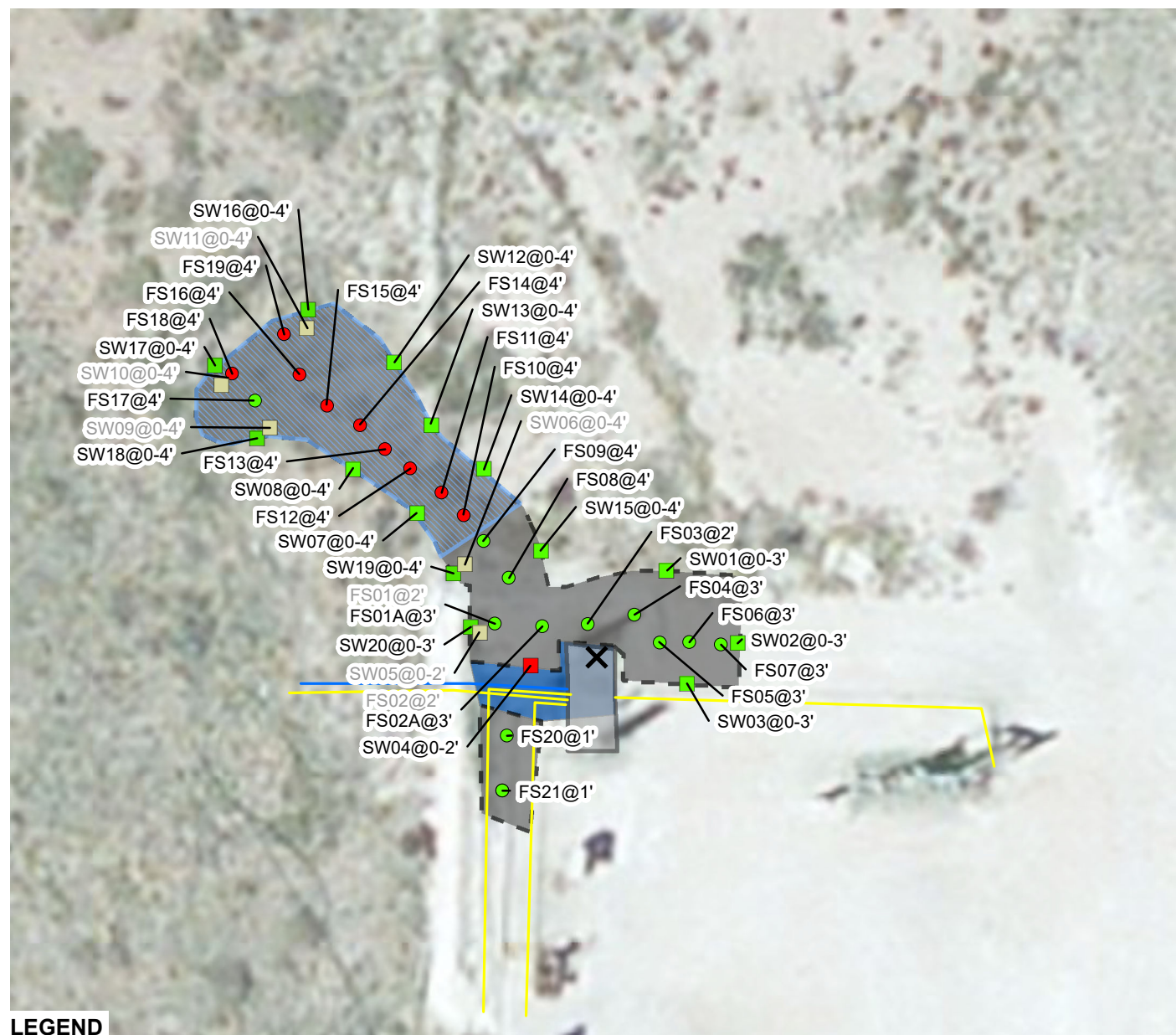
Attachments:

Figure 1 Site Location Map
Figure 2 Soil Sample Locations and Liner Extent
Table 1 Soil Analytical Results
Attachment 1 Approved Work Plan and Deferral Request Form C-141
Attachment 2 Photographic Log
Attachment 3 Laboratory Analytical Reports

FIGURES



P:\XTO Energy\GIS\MXD\012920017_ADU HONDO TESTER\012920017_FIG01_SL_RECEPTOR_2020.mxd

**LEGEND**

RELEASE LOCATION



EXCAVATION FLOOR SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA



EXCAVATION FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA OR ESTABLISHED BACKGROUND CONCENTRATION



EXCAVATION SIDEWALL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA



EXCAVATION SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA OR ESTABLISHED BACKGROUND CONCENTRATION



EXCAVATION SIDEWALL SAMPLE WITH CONCENTRATIONS 0 PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA AND HAS BEEN EXCAVATED

GAS/PIPELINE

WATER LINE



INFRASTRUCTURE



DEFERRAL AREA



LINER EXTENT

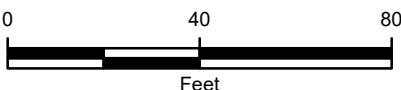


IMAGE COURTESY OF ESRI

NOTE: INCIDENT NUMBER NVV2003542379
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

FIGURE 2
SOIL SAMPLE LOCATIONS AND LINER EXTENT
ADU HONDO TESTER
UNIT D SEC 32 T20S R28E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



TABLES

Table 1

Soil Analytical Results
ADU Hondo Tester
Incident Number NVV2003542379
XTO Energy, Inc.
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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Background Concentrations										901
Excavation Floor Samples										
FS01	05/28/2020	2	<0.00200	0.294	151	<50.1	<50.1	151	151	344
FS01A	07/27/2020	3	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	300
FS02	05/27/2020	2	<0.00198	0.0554	331	<49.9	58.0	331	389	200
FS02A	07/27/2020	3	<0.00201	<0.00201	73.1	<50.0	<50.0	73.1	73.1	320
FS03	05/28/2020	2	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	451
FS04	05/27/2020	3	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	376
FS05	05/27/2020	3	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	469
FS06	05/27/2020	3	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	325
FS07	05/27/2020	3	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	342
FS08	06/01/2020	4	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	87.3
FS09	06/01/2020	4	<0.00200	<0.00200	51.5	<50.0	<50.0	51.5	51.5	501
FS10	06/01/2020	4	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	1,260
FS11	06/01/2020	4	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	2,150
FS12	06/01/2020	4	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	2,570
FS13	06/01/2020	4	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	2,240
FS14	05/28/2020	4	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	1,020
FS15	05/28/2020	4	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	1,240
FS16	05/28/2020	4	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	961
FS17	05/28/2020	4	<0.00202	<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	777*
FS18	07/27/2020	4	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	1,220

Table 1

Soil Analytical Results
ADU Hondo Tester
Incident Number NVV2003542379
XTO Energy, Inc.
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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Background Concentrations										901
FS19	07/27/2020	4	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	1,090
FS20	08/26/2020	1	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	166
FS21	08/26/2020	1	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	176
Excavation Sidewall Samples										
SW01	05/28/2020	0 - 3	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	397
SW02	05/28/2020	0 - 3	<0.00201	0.0579	53.4	<50.0	<50.0	53.4	53.4	564
SW03	05/28/2020	0 - 3	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	665
SW04	05/28/2020	0 - 2	<0.00200	0.0187	1,080	<50.0	181	1,080	1,260	993
SW05	05/28/2020	0 - 2	<0.00202	0.108	137	<50.2	<50.2	137	137	154
SW06	06/01/2020	0 - 4	<0.00202	<0.00202	250	<50.2	81.4	250	331	62.3
SW07	06/01/2020	0 - 4	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	110
SW08	06/01/2020	0 - 4	<0.00200	<0.00200	69.6	<49.8	<49.8	69.6	69.6	283
SW09	05/28/2020	0 - 4	<0.00201	0.0242	571	<49.8	74.3	571	645	275
SW10	05/28/2020	0 - 4	<0.00201	0.0445	570	<49.9	71.8	570	642	72.7
SW11	05/28/2020	0 - 4	<0.00202	<0.00202	545	<49.8	65.4	545	610	46.0
SW12	06/01/2020	0 - 4	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	324
SW13	06/01/2020	0 - 4	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	291
SW14	06/01/2020	0 - 4	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	120
SW15	06/01/2020	0 - 4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	13.1
SW16	07/27/2020	0 - 4	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	<50.3	28.8
SW17	07/27/2020	0 - 4	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	25.4

Table 1

Soil Analytical Results
ADU Hondo Tester
Incident Number NVV2003542379
XTO Energy, Inc.
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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Background Concentrations										901
SW18	07/27/2020	0 - 4	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	26.6
SW19	07/27/2020	0 - 4	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	182
SW20	07/27/2020	0 - 3	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	38.4

Notes

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
Greyed data represents samples that were excavated

ATTACHMENT 1: APPROVED WORK PLAN AND DEFERRAL REQUEST FORM C-141

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	NVV2003542379
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	XTO Energy	OGRID	5380
Contact Name	Kyle Littrell	Contact Telephone	432-221-7331
Contact email	Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)	NVV2003542379
Contact mailing address	522 W. Mermod, Carlsbad, NM 88220		

Location of Release Source

Latitude 32.535411 Longitude -104.206987
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	ADU Hondo Tester	Site Type	Well Location
Date Release Discovered	1/05/2020	API# (if applicable)	30-015-24388 (Avalon Delaware Unit #609)

Unit Letter	Section	Township	Range	County
D	32	20S	28E	EDDY

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

Nature and Volume of Release

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

☒ Crude Oil	Volume Released (bbls) 15.86	Volume Recovered (bbls) 14.25
☒ Produced Water	Volume Released (bbls) 0.83	Volume Recovered (bbls) 0.75
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The site glass on tester busted releasing approximately 15.86 bbls of oil and 0.83 bbl of produced water. Vacuum trucked was called out and recovered 14.25 bbls of oil and 0.75 bbl of produced water. Additional third party resources have been retained to assist in the remediation.

Form C-141

State of New Mexico

Page 2

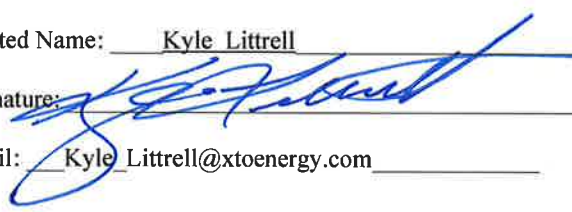
Oil Conservation Division

Incident ID	NVV2003542379
District RP	
Facility ID	
Application ID	

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

Initial Response

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 release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why: N/A
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Kyle Littrell</u> Title: <u>SH&E Supervisor</u> Signature:  Date: <u>1/20/2019</u> email: <u>Kyle.Littrell@xtoenergy.com</u> Telephone: _____
<u>OCD Only</u> Received by: <u>Victoria Venegas</u> Date: <u>02/04/2020</u>

Location:	ADU Hondo Tester	
Spill Date:	1/5/2020	
Area 1		
Approximate Area =	2826.00	sq. ft.
Average Saturation (or depth) of spill =	1.00	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	15.45	bbls
Total Produced Water =	0.81	bbls
Area 2		
Approximate Area =	7537.00	sq. ft.
Average Saturation (or depth) of spill =	0.13	inches
Average Porosity Factor =	0.03	
VOLUME OF LEAK		
Total Crude Oil =	0.41	bbls
Total Produced Water =	0.02	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	15.86	bbls
Total Produced Water =	0.83	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	14.25	bbls
Total Produced Water =	0.75	bbls

Incident ID	NVV2003542379
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>> 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 not on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

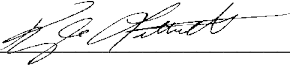
State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NVV2003542379
District RP	
Facility ID	
Application ID	

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 3-12-2021

email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: _____ Date: _____

Incident ID	NVV2003542379
District RP	
Facility ID	
Application ID	

Remediation Plan

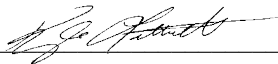
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Kyle Littrell Title: SH&E Supervisor
Signature:  Date: 3-12-2021
email: Kyle_Littrell@xtoenergy.com Telephone: (432)-221-7331

OCD Only

Received by: Chad Hensley Date: 03/18/2021

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature:  Date: 03/18/2021

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 13753

CONDITIONS OF APPROVAL

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Building #5 Midland, TX79707		OGRID: 5380	Action Number: 13753	Action Type: C-141
OCD Reviewer	Condition			
chensley	OCD approves XTO installation of a 20-mil impermeable liner with a composite sample conducted prior to installation.			

ATTACHMENT 2: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

XTO Energy, Inc.	ADU Hondo Tester Eddy County, NM	TE012920017
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Photo No.	Date	
1	June 1, 2020	
Excavation within pasture facing northwest.		

Photo No.	Date	
2	April 21, 2021	
View of installation of liner within pasture.		



PHOTOGRAPHIC LOG

XTO Energy, Inc.	ADU Hondo Tester Eddy County, NM	TE012920017
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Photo No.	Date	
3	April 21, 2021	
View of installation of liner within pasture.		

Photo No.	Date	
4	April 21, 2021	
View of backfill after liner installation.		

ATTACHMENT 2: LABORATORY ANALYTICAL RESULTS



Certificate of Analysis Summary 663033

LT Environmental, Inc., Arvada, CO

Project Name: ADU Hondo

Project Id: 012920017

Contact: Dan Moir

Project Location:

Date Received in Lab: Mon 06.01.2020 08:45

Report Date: 06.02.2020 11:13

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	663033-001	663033-002	663033-003	663033-004	663033-005	663033-006
	Field Id:	FS01	FS02	FS03	FS04	FS05	FS06
	Depth:	2- ft	2- ft	2- ft	3- ft	3- ft	3- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	05.28.2020 08:45	05.27.2020 14:10	05.28.2020 09:00	05.27.2020 14:50	05.27.2020 15:00	05.27.2020 15:10
BTEX by EPA 8021B	Extracted:	06.01.2020 10:28	06.01.2020 10:28	06.01.2020 10:28	06.01.2020 10:28	06.01.2020 10:28	06.01.2020 10:28
	Analyzed:	06.01.2020 13:43	06.01.2020 14:03	06.01.2020 14:24	06.01.2020 14:44	06.01.2020 15:04	06.01.2020 19:09
	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	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Toluene		0.119 0.00200	0.0249 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		0.0352 0.00200	0.0162 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		0.105 0.00401	0.0143 0.00397	<0.00401 0.00401	<0.00404 0.00404	<0.00400 0.00400	<0.00399 0.00399
o-Xylene		0.0348 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		0.140 0.00200	0.0143 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		0.294 0.00200	0.0554 0.00198	<0.00200 0.00200	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	Extracted:	06.01.2020 14:29	06.01.2020 14:29	06.01.2020 14:29	06.01.2020 14:29	06.01.2020 14:29	06.01.2020 14:29
	Analyzed:	** ** *	06.01.2020 14:38	06.01.2020 14:45	06.01.2020 14:52	06.01.2020 14:59	06.01.2020 15:20
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		344 10.0	200 9.92	451 10.0	376 9.92	469 9.98	325 9.92
TPH by SW8015 Mod	Extracted:	06.01.2020 12:00	06.01.2020 12:00	06.01.2020 12:00	06.01.2020 12:00	06.01.2020 12:00	06.01.2020 12:00
	Analyzed:	06.01.2020 13:25	06.01.2020 14:47	06.01.2020 15:08	06.01.2020 14:27	06.01.2020 14:47	06.01.2020 15:08
	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	<49.9 49.9	<50.1 50.1	<50.2 50.2	<50.1 50.1	<49.8 49.8
Diesel Range Organics (DRO)		151 50.1	331 49.9	<50.1 50.1	<50.2 50.2	<50.1 50.1	<49.8 49.8
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	58.0 49.9	<50.1 50.1	<50.2 50.2	<50.1 50.1	<49.8 49.8
Total GRO-DRO		151 50.1	331 49.9	<50.1 50.1	<50.2 50.2	<50.1 50.1	<49.8 49.8
Total TPH		151 50.1	389 49.9	<50.1 50.1	<50.2 50.2	<50.1 50.1	<49.8 49.8

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.

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 663033

LT Environmental, Inc., Arvada, CO

Project Name: ADU Hondo

Project Id: 012920017

Contact: Dan Moir

Project Location:

Date Received in Lab: Mon 06.01.2020 08:45

Report Date: 06.02.2020 11:13

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	663033-007					
	Field Id:	FS07					
	Depth:	3- ft					
	Matrix:	SOIL					
	Sampled:	05.27.2020 15:20					
BTEX by EPA 8021B	Extracted:	06.01.2020 10:28					
	Analyzed:	06.01.2020 15:45					
	Units/RL:	mg/kg RL					
Benzene		<0.00202 0.00202					
Toluene		<0.00202 0.00202					
Ethylbenzene		<0.00202 0.00202					
m,p-Xylenes		<0.00403 0.00403					
o-Xylene		<0.00202 0.00202					
Total Xylenes		<0.00202 0.00202					
Total BTEX		<0.00202 0.00202					
Chloride by EPA 300	Extracted:	06.01.2020 14:29					
	Analyzed:	06.01.2020 15:27					
	Units/RL:	mg/kg RL					
Chloride		342 10.0					
TPH by SW8015 Mod	Extracted:	06.01.2020 12:00					
	Analyzed:	06.01.2020 13:25					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1					
Diesel Range Organics (DRO)		<50.1 50.1					
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1					
Total GRO-DRO		<50.1 50.1					
Total TPH		<50.1 50.1					

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.

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

Jessica Kramer
Project Manager



Analytical Report 663033

for

LT Environmental, Inc.

Project Manager: Dan Moir

ADU Hondo

012920017

06.02.2020

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.02.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **663033**

ADU Hondo

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) 663033. 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. 663033 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,

A handwritten signature in black ink that reads 'Jessica Kramer'.

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 663033****LT Environmental, Inc., Arvada, CO**

ADU Hondo

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	05.28.2020 08:45	2 ft	663033-001
FS02	S	05.27.2020 14:10	2 ft	663033-002
FS03	S	05.28.2020 09:00	2 ft	663033-003
FS04	S	05.27.2020 14:50	3 ft	663033-004
FS05	S	05.27.2020 15:00	3 ft	663033-005
FS06	S	05.27.2020 15:10	3 ft	663033-006
FS07	S	05.27.2020 15:20	3 ft	663033-007



CASE NARRATIVE

Client Name: *LT Environmental, Inc.*

Project Name: *ADU Hondo*

Project ID: 012920017
Work Order Number(s): 663033

Report Date: 06.02.2020
Date Received: 06.01.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 663033

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS01** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663033-001 Date Collected: 05.28.2020 08:45 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	344	10.0	mg/kg	06.01.2020 14:17		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127596

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	06.01.2020 13:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	151	50.1	mg/kg	06.01.2020 13:25		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	06.01.2020 13:25	U	1
Total GRO-DRO	PHC628	151	50.1	mg/kg	06.01.2020 13:25		1
Total TPH	PHC635	151	50.1	mg/kg	06.01.2020 13:25		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	06.01.2020 13:25	
o-Terphenyl	84-15-1	96	%	70-135	06.01.2020 13:25	



Certificate of Analytical Results 663033

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS01**
Lab Sample Id: 663033-001

Matrix: Soil
Date Collected: 05.28.2020 08:45

Date Received: 06.01.2020 08:45
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Seq Number: 3127638

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.01.2020 13:43	U	1
Toluene	108-88-3	0.119	0.00200	mg/kg	06.01.2020 13:43		1
Ethylbenzene	100-41-4	0.0352	0.00200	mg/kg	06.01.2020 13:43		1
m,p-Xylenes	179601-23-1	0.105	0.00401	mg/kg	06.01.2020 13:43		1
o-Xylene	95-47-6	0.0348	0.00200	mg/kg	06.01.2020 13:43		1
Total Xylenes	1330-20-7	0.140	0.00200	mg/kg	06.01.2020 13:43		1
Total BTEX		0.294	0.00200	mg/kg	06.01.2020 13:43		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	85	%	70-130	06.01.2020 13:43		
1,4-Difluorobenzene	540-36-3	106	%	70-130	06.01.2020 13:43		



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LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS02** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663033-002 Date Collected: 05.27.2020 14:10 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	200	9.92	mg/kg	06.01.2020 14:38		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127596

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.01.2020 14:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	331	49.9	mg/kg	06.01.2020 14:47		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	58.0	49.9	mg/kg	06.01.2020 14:47		1
Total GRO-DRO	PHC628	331	49.9	mg/kg	06.01.2020 14:47		1
Total TPH	PHC635	389	49.9	mg/kg	06.01.2020 14:47		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	06.01.2020 14:47	
o-Terphenyl	84-15-1	101	%	70-135	06.01.2020 14:47	



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LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS02**
Lab Sample Id: 663033-002

Matrix: Soil
Date Collected: 05.27.2020 14:10

Date Received: 06.01.2020 08:45
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Seq Number: 3127638

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.01.2020 14:03	U	1
Toluene	108-88-3	0.0249	0.00198	mg/kg	06.01.2020 14:03		1
Ethylbenzene	100-41-4	0.0162	0.00198	mg/kg	06.01.2020 14:03		1
m,p-Xylenes	179601-23-1	0.0143	0.00397	mg/kg	06.01.2020 14:03		1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.01.2020 14:03	U	1
Total Xylenes	1330-20-7	0.0143	0.00198	mg/kg	06.01.2020 14:03		1
Total BTEX		0.0554	0.00198	mg/kg	06.01.2020 14:03		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	06.01.2020 14:03		
4-Bromofluorobenzene	460-00-4	94	%	70-130	06.01.2020 14:03		



Certificate of Analytical Results 663033

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS03** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663033-003 Date Collected: 05.28.2020 09:00 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	451	10.0	mg/kg	06.01.2020 14:45		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127596

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	06.01.2020 15:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	06.01.2020 15:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	06.01.2020 15:08	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	06.01.2020 15:08	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	06.01.2020 15:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	06.01.2020 15:08	
o-Terphenyl	84-15-1	94	%	70-135	06.01.2020 15:08	



Certificate of Analytical Results 663033

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS03**
Lab Sample Id: 663033-003

Matrix: Soil
Date Collected: 05.28.2020 09:00

Date Received: 06.01.2020 08:45
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Seq Number: 3127638

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.01.2020 14:24	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.01.2020 14:24	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.01.2020 14:24	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.01.2020 14:24	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.01.2020 14:24	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.01.2020 14:24	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.01.2020 14:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	06.01.2020 14:24	
1,4-Difluorobenzene	540-36-3	112	%	70-130	06.01.2020 14:24	



Certificate of Analytical Results 663033

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS04** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663033-004 Date Collected: 05.27.2020 14:50 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	376	9.92	mg/kg	06.01.2020 14:52		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127603

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	06.01.2020 14:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	06.01.2020 14:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	06.01.2020 14:27	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	06.01.2020 14:27	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	06.01.2020 14:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	06.01.2020 14:27	
o-Terphenyl	84-15-1	95	%	70-135	06.01.2020 14:27	



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LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS04**
Lab Sample Id: 663033-004

Matrix: Soil
Date Collected: 05.27.2020 14:50

Date Received: 06.01.2020 08:45
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Seq Number: 3127638

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.01.2020 14:44	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.01.2020 14:44	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.01.2020 14:44	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	06.01.2020 14:44	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.01.2020 14:44	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.01.2020 14:44	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.01.2020 14:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	06.01.2020 14:44	
1,4-Difluorobenzene	540-36-3	111	%	70-130	06.01.2020 14:44	



Certificate of Analytical Results 663033

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS05** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663033-005 Date Collected: 05.27.2020 15:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	469	9.98	mg/kg	06.01.2020 14:59		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127603

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	06.01.2020 14:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	06.01.2020 14:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	06.01.2020 14:47	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	06.01.2020 14:47	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	06.01.2020 14:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.01.2020 14:47	
o-Terphenyl	84-15-1	94	%	70-135	06.01.2020 14:47	



Certificate of Analytical Results 663033

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS05**
Lab Sample Id: 663033-005

Matrix: Soil
Date Collected: 05.27.2020 15:00

Date Received: 06.01.2020 08:45
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Seq Number: 3127638

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.01.2020 15:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.01.2020 15:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.01.2020 15:04	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.01.2020 15:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.01.2020 15:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.01.2020 15:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.01.2020 15:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	06.01.2020 15:04	
1,4-Difluorobenzene	540-36-3	109	%	70-130	06.01.2020 15:04	



Certificate of Analytical Results 663033

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS06** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663033-006 Date Collected: 05.27.2020 15:10 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	325	9.92	mg/kg	06.01.2020 15:20		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127603

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.01.2020 15:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	06.01.2020 15:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.01.2020 15:08	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	06.01.2020 15:08	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	06.01.2020 15:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	06.01.2020 15:08	
o-Terphenyl	84-15-1	93	%	70-135	06.01.2020 15:08	



Certificate of Analytical Results 663033

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS06**
Lab Sample Id: 663033-006

Matrix: Soil
Date Collected: 05.27.2020 15:10

Date Received: 06.01.2020 08:45
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Seq Number: 3127638

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.01.2020 19:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.01.2020 19:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.01.2020 19:09	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.01.2020 19:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.01.2020 19:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.01.2020 19:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.01.2020 19:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	101	%	70-130	06.01.2020 19:09		
1,4-Difluorobenzene	540-36-3	112	%	70-130	06.01.2020 19:09		



Certificate of Analytical Results 663033

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS07** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663033-007 Date Collected: 05.27.2020 15:20 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	342	10.0	mg/kg	06.01.2020 15:27		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127603

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	06.01.2020 13:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	06.01.2020 13:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	06.01.2020 13:25	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	06.01.2020 13:25	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	06.01.2020 13:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	06.01.2020 13:25	
o-Terphenyl	84-15-1	92	%	70-135	06.01.2020 13:25	



Certificate of Analytical Results 663033

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS07**
Lab Sample Id: 663033-007

Matrix: Soil
Date Collected: 05.27.2020 15:20

Date Received: 06.01.2020 08:45
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Seq Number: 3127638

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.01.2020 15:45	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.01.2020 15:45	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.01.2020 15:45	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.01.2020 15:45	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.01.2020 15:45	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.01.2020 15:45	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.01.2020 15:45	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	06.01.2020 15:45		
1,4-Difluorobenzene	540-36-3	106	%	70-130	06.01.2020 15:45		



Flagging Criteria

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

****** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



LT Environmental, Inc.

ADU Hondo

Analytical Method: Chloride by EPA 300

Seq Number: 3127636

MB Sample Id: 7704530-1-BLK

Matrix: Solid

LCS Sample Id: 7704530-1-BKS

Prep Method: E300P

Date Prep: 06.01.2020

LCSD Sample Id: 7704530-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	250	100	250	100	90-110	0	20	mg/kg	06.01.2020 14:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3127636

Parent Sample Id: 663033-001

Matrix: Soil

MS Sample Id: 663033-001 S

Prep Method: E300P

Date Prep: 06.01.2020

MSD Sample Id: 663033-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	344	200	527	92	527	92	90-110	0	20	mg/kg	06.01.2020 14:24	

Analytical Method: Chloride by EPA 300

Seq Number: 3127636

Parent Sample Id: 663035-004

Matrix: Soil

MS Sample Id: 663035-004 S

Prep Method: E300P

Date Prep: 06.01.2020

MSD Sample Id: 663035-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	993	199	1180	94	1180	94	90-110	0	20	mg/kg	06.01.2020 16:02	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127596

MB Sample Id: 7704536-1-BLK

Matrix: Solid

LCS Sample Id: 7704536-1-BKS

Prep Method: SW8015P

Date Prep: 06.01.2020

LCSD Sample Id: 7704536-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	941	94	925	93	70-135	2	35	mg/kg	06.01.2020 12:44	
Diesel Range Organics (DRO)	<50.0	1000	1020	102	1010	101	70-135	1	35	mg/kg	06.01.2020 12:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		114		111		70-135	%	06.01.2020 12:44
o-Terphenyl	94		107		105		70-135	%	06.01.2020 12:44

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127603

MB Sample Id: 7704537-1-BLK

Matrix: Solid

LCS Sample Id: 7704537-1-BKS

Prep Method: SW8015P

Date Prep: 06.01.2020

LCSD Sample Id: 7704537-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	989	99	970	97	70-135	2	35	mg/kg	06.01.2020 12:44	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	992	99	70-135	4	35	mg/kg	06.01.2020 12:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		118		130		70-135	%	06.01.2020 12:44
o-Terphenyl	80		102		101		70-135	%	06.01.2020 12:44

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



LT Environmental, Inc.
ADU Hondo

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127596

Matrix: Solid

Prep Method: SW8015P

Date Prep: 06.01.2020

MB Sample Id: 7704536-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	06.01.2020 12:23	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127603

Matrix: Solid

Prep Method: SW8015P

Date Prep: 06.01.2020

MB Sample Id: 7704537-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	06.01.2020 12:23	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127596

Matrix: Soil

Prep Method: SW8015P

Date Prep: 06.01.2020

Parent Sample Id: 663033-001

MS Sample Id: 663033-001 S

MSD Sample Id: 663033-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	981	98	998	100	70-135	2	35	mg/kg	06.01.2020 13:45	
Diesel Range Organics (DRO)	151	1000	1200	105	1010	86	70-135	17	35	mg/kg	06.01.2020 13:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		113		70-135	%	06.01.2020 13:45
o-Terphenyl	104		104		70-135	%	06.01.2020 13:45

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127603

Matrix: Soil

Prep Method: SW8015P

Date Prep: 06.01.2020

Parent Sample Id: 663033-007

MS Sample Id: 663033-007 S

MSD Sample Id: 663033-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1110	111	1010	101	70-135	9	35	mg/kg	06.01.2020 13:45	
Diesel Range Organics (DRO)	<50.2	1000	1140	114	1050	105	70-135	8	35	mg/kg	06.01.2020 13:45	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	120		118		70-135	%	06.01.2020 13:45
o-Terphenyl	106		101		70-135	%	06.01.2020 13:45

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



LT Environmental, Inc.
ADU Hondo

Analytical Method: BTEX by EPA 8021B

Seq Number: 3127638

MB Sample Id: 7704529-1-BLK

Matrix: Solid

LCS Sample Id: 7704529-1-BKS

Prep Method: SW5035A

Date Prep: 06.01.2020

LCSD Sample Id: 7704529-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.109	109	0.111	111	70-130	2	35	mg/kg	06.01.2020 12:01	
Toluene	<0.00200	0.100	0.105	105	0.106	106	70-130	1	35	mg/kg	06.01.2020 12:01	
Ethylbenzene	<0.00200	0.100	0.0988	99	0.100	100	71-129	1	35	mg/kg	06.01.2020 12:01	
m,p-Xylenes	<0.00400	0.200	0.204	102	0.208	104	70-135	2	35	mg/kg	06.01.2020 12:01	
o-Xylene	<0.00200	0.100	0.102	102	0.105	105	71-133	3	35	mg/kg	06.01.2020 12:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		107		109		70-130	%	06.01.2020 12:01
4-Bromofluorobenzene	96		89		92		70-130	%	06.01.2020 12:01

Analytical Method: BTEX by EPA 8021B

Seq Number: 3127638

Parent Sample Id: 663033-001

Matrix: Soil

MS Sample Id: 663033-001 S

Prep Method: SW5035A

Date Prep: 06.01.2020

MSD Sample Id: 663033-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.106	105	70-130	1	35	mg/kg	06.01.2020 17:07	
Toluene	0.119	0.100	0.202	83	0.202	82	70-130	0	35	mg/kg	06.01.2020 17:07	
Ethylbenzene	0.0352	0.100	0.125	90	0.116	80	71-129	7	35	mg/kg	06.01.2020 17:07	
m,p-Xylenes	0.105	0.200	0.297	96	0.290	92	70-135	2	35	mg/kg	06.01.2020 17:07	
o-Xylene	0.0348	0.100	0.129	94	0.130	94	71-133	1	35	mg/kg	06.01.2020 17:07	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		108		70-130	%	06.01.2020 17:07
4-Bromofluorobenzene	92		92		70-130	%	06.01.2020 17:07

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Chain of Custody
Work Order No: 1631033
www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littlell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slc@ltenv.com, dmoir@ltenv.com
Project Name:	ADU Hondo	Turn Around	
Project Number:	012920017	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
	Temperature (°C):	1.8		Thermometer ID	THM007	
	Received Intact:	Yes	No	Correction Factor:	-0.2	
	Cooler Custody Seals:	Yes	No	Total Containers:	7	
Sample Custody Seals:	Yes	No				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number	TPH (E	BTEX (	Chloride											Sample Comments
FS01	S	5-28-20	845	2'	1	X	X	X											
FS02		5-27-20	1410	2'	X	X	X	X											
FS03		5-28-20	900	2'															
FS04		5-27-20	1450	3'															
FS05		5-27-20	1500	3'															
FS06		5-27-20	1510	3'															
FS07		5-27-20	1520	3'	X	X	X	X											
					X	X	X	X											

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		6/1/20 15:00 AM			6/1/20 08:45



Certificate of Analysis Summary 663035

LT Environmental, Inc., Arvada, CO

Project Name: ADU Hondo

Project Id: 012920017

Contact: Dan Moir

Project Location:

Date Received in Lab: Mon 06.01.2020 08:45

Report Date: 06.02.2020 11:14

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	663035-001	663035-002	663035-003	663035-004	663035-005	
	Field Id:	SW01	SW02	SW03	SW04	SW05	
	Depth:	0-3 ft	0-3 ft	0-3 ft	0-2 ft	0-2 ft	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	05.28.2020 09:15	05.28.2020 09:30	05.28.2020 09:45	05.28.2020 10:00	05.28.2020 10:15	
BTEX by EPA 8021B	Extracted:	06.01.2020 10:28	06.01.2020 10:28	06.01.2020 10:28	06.01.2020 10:28	06.01.2020 10:28	
	Analyzed:	06.01.2020 19:30	06.01.2020 16:26	06.01.2020 16:46	06.01.2020 18:28	06.01.2020 18:49	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Benzene		<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00202 0.00202	
Toluene		<0.00202 0.00202	0.0264 0.00201	<0.00202 0.00202	0.0187 0.00200	0.0339 0.00202	
Ethylbenzene		<0.00202 0.00202	0.0167 0.00201	<0.00202 0.00202	<0.00200 0.00200	0.0333 0.00202	
m,p-Xylenes		<0.00403 0.00403	0.0148 0.00402	<0.00403 0.00403	<0.00399 0.00399	0.0294 0.00403	
o-Xylene		<0.00202 0.00202	<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	0.0112 0.00202	
Total Xylenes		<0.00202 0.00202	0.0148 0.00201	<0.00202 0.00202	<0.00200 0.00200	0.0406 0.00202	
Total BTEX		<0.00202 0.00202	0.0579 0.00201	<0.00202 0.00202	0.0187 0.00200	0.108 0.00202	
Chloride by EPA 300	Extracted:	06.01.2020 14:29	06.01.2020 14:29	06.01.2020 14:29	06.01.2020 14:29	06.01.2020 14:29	
	Analyzed:	06.01.2020 15:34	06.01.2020 15:41	06.01.2020 15:48	06.01.2020 15:55	06.01.2020 16:16	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		397 9.98	564 9.96	665 9.94	993 9.92	154 10.0	
TPH by SW8015 Mod	Extracted:	06.01.2020 12:00	06.01.2020 12:00	06.01.2020 12:00	06.01.2020 12:00	06.01.2020 12:00	
	Analyzed:	06.01.2020 15:29	06.01.2020 15:49	06.01.2020 14:27	06.01.2020 15:49	06.01.2020 15:29	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.0 50.0	<50.1 50.1	<50.0 50.0	<50.2 50.2	
Diesel Range Organics (DRO)		<50.1 50.1	53.4 50.0	<50.1 50.1	1080 50.0	137 50.2	
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.0 50.0	<50.1 50.1	181 50.0	<50.2 50.2	
Total GRO-DRO		<50.1 50.1	53.4 50.0	<50.1 50.1	1080 50.0	137 50.2	
Total TPH		<50.1 50.1	53.4 50.0	<50.1 50.1	1260 50.0	137 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.

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

Jessica Kramer
Project Manager



Analytical Report 663035

for

LT Environmental, Inc.

Project Manager: Dan Moir

ADU Hondo

012920017

06.02.2020

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.02.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **663035**

ADU Hondo

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) 663035. 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. 663035 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,

A handwritten signature in black ink that reads 'Jessica Kramer'. The signature is written in a cursive, flowing style.

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 663035

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	05.28.2020 09:15	0 - 3 ft	663035-001
SW02	S	05.28.2020 09:30	0 - 3 ft	663035-002
SW03	S	05.28.2020 09:45	0 - 3 ft	663035-003
SW04	S	05.28.2020 10:00	0 - 2 ft	663035-004
SW05	S	05.28.2020 10:15	0 - 2 ft	663035-005



CASE NARRATIVE

Client Name: *LT Environmental, Inc.*

Project Name: *ADU Hondo*

Project ID: 012920017
Work Order Number(s): 663035

Report Date: 06.02.2020
Date Received: 06.01.2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 663035

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW01** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663035-001 Date Collected: 05.28.2020 09:15 Sample Depth: 0 - 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	397	9.98	mg/kg	06.01.2020 15:34		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127603

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	06.01.2020 15:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	06.01.2020 15:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	06.01.2020 15:29	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	06.01.2020 15:29	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	06.01.2020 15:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	06.01.2020 15:29	
o-Terphenyl	84-15-1	90	%	70-135	06.01.2020 15:29	



Certificate of Analytical Results 663035

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW01**
Lab Sample Id: 663035-001

Matrix: Soil
Date Collected: 05.28.2020 09:15

Date Received: 06.01.2020 08:45
Sample Depth: 0 - 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Seq Number: 3127638

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.01.2020 19:30	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.01.2020 19:30	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.01.2020 19:30	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.01.2020 19:30	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.01.2020 19:30	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.01.2020 19:30	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.01.2020 19:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	06.01.2020 19:30	
1,4-Difluorobenzene	540-36-3	109	%	70-130	06.01.2020 19:30	



Certificate of Analytical Results 663035

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW02** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663035-002 Date Collected: 05.28.2020 09:30 Sample Depth: 0 - 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	564	9.96	mg/kg	06.01.2020 15:41		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127603

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.01.2020 15:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	53.4	50.0	mg/kg	06.01.2020 15:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.01.2020 15:49	U	1
Total GRO-DRO	PHC628	53.4	50.0	mg/kg	06.01.2020 15:49		1
Total TPH	PHC635	53.4	50.0	mg/kg	06.01.2020 15:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	06.01.2020 15:49	
o-Terphenyl	84-15-1	97	%	70-135	06.01.2020 15:49	



Certificate of Analytical Results 663035

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW02**
Lab Sample Id: 663035-002

Matrix: Soil
Date Collected: 05.28.2020 09:30

Date Received: 06.01.2020 08:45
Sample Depth: 0 - 3 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3127638

Prep Method: SW5035A

% Moisture:

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.01.2020 16:26	U	1
Toluene	108-88-3	0.0264	0.00201	mg/kg	06.01.2020 16:26		1
Ethylbenzene	100-41-4	0.0167	0.00201	mg/kg	06.01.2020 16:26		1
m,p-Xylenes	179601-23-1	0.0148	0.00402	mg/kg	06.01.2020 16:26		1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.01.2020 16:26	U	1
Total Xylenes	1330-20-7	0.0148	0.00201	mg/kg	06.01.2020 16:26		1
Total BTEX		0.0579	0.00201	mg/kg	06.01.2020 16:26		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	06.01.2020 16:26		
4-Bromofluorobenzene	460-00-4	91	%	70-130	06.01.2020 16:26		



Certificate of Analytical Results 663035

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW03** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663035-003 Date Collected: 05.28.2020 09:45 Sample Depth: 0 - 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	665	9.94	mg/kg	06.01.2020 15:48		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127596

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	06.01.2020 14:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	06.01.2020 14:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	06.01.2020 14:27	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	06.01.2020 14:27	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	06.01.2020 14:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	06.01.2020 14:27	
o-Terphenyl	84-15-1	99	%	70-135	06.01.2020 14:27	



Certificate of Analytical Results 663035

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW03**
Lab Sample Id: 663035-003

Matrix: Soil
Date Collected: 05.28.2020 09:45

Date Received: 06.01.2020 08:45
Sample Depth: 0 - 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Seq Number: 3127638

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.01.2020 16:46	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.01.2020 16:46	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.01.2020 16:46	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.01.2020 16:46	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.01.2020 16:46	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.01.2020 16:46	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.01.2020 16:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	89	%	70-130	06.01.2020 16:46	
1,4-Difluorobenzene	540-36-3	106	%	70-130	06.01.2020 16:46	



Certificate of Analytical Results 663035

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW04** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663035-004 Date Collected: 05.28.2020 10:00 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	993	9.92	mg/kg	06.01.2020 15:55		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127596

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.01.2020 15:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	1080	50.0	mg/kg	06.01.2020 15:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	181	50.0	mg/kg	06.01.2020 15:49		1
Total GRO-DRO	PHC628	1080	50.0	mg/kg	06.01.2020 15:49		1
Total TPH	PHC635	1260	50.0	mg/kg	06.01.2020 15:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	06.01.2020 15:49	
o-Terphenyl	84-15-1	99	%	70-135	06.01.2020 15:49	



Certificate of Analytical Results 663035

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW04**
Lab Sample Id: 663035-004

Matrix: Soil
Date Collected: 05.28.2020 10:00

Date Received: 06.01.2020 08:45
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Seq Number: 3127638

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.01.2020 18:28	U	1
Toluene	108-88-3	0.0187	0.00200	mg/kg	06.01.2020 18:28		1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.01.2020 18:28	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	06.01.2020 18:28	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.01.2020 18:28	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.01.2020 18:28	U	1
Total BTEX		0.0187	0.00200	mg/kg	06.01.2020 18:28		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	06.01.2020 18:28		
1,4-Difluorobenzene	540-36-3	112	%	70-130	06.01.2020 18:28		



Certificate of Analytical Results 663035

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW05** Matrix: Soil Date Received: 06.01.2020 08:45
 Lab Sample Id: 663035-005 Date Collected: 05.28.2020 10:15 Sample Depth: 0 - 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.01.2020 14:29 Basis: Wet Weight
 Seq Number: 3127636

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	154	10.0	mg/kg	06.01.2020 16:16		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.01.2020 12:00 Basis: Wet Weight
 Seq Number: 3127596

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	06.01.2020 15:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	137	50.2	mg/kg	06.01.2020 15:29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	06.01.2020 15:29	U	1
Total GRO-DRO	PHC628	137	50.2	mg/kg	06.01.2020 15:29		1
Total TPH	PHC635	137	50.2	mg/kg	06.01.2020 15:29		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	06.01.2020 15:29	
o-Terphenyl	84-15-1	96	%	70-135	06.01.2020 15:29	



Certificate of Analytical Results 663035

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW05**
Lab Sample Id: 663035-005

Matrix: Soil
Date Collected: 05.28.2020 10:15

Date Received: 06.01.2020 08:45
Sample Depth: 0 - 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.01.2020 10:28

Basis: Wet Weight

Seq Number: 3127638

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.01.2020 18:49	U	1
Toluene	108-88-3	0.0339	0.00202	mg/kg	06.01.2020 18:49		1
Ethylbenzene	100-41-4	0.0333	0.00202	mg/kg	06.01.2020 18:49		1
m,p-Xylenes	179601-23-1	0.0294	0.00403	mg/kg	06.01.2020 18:49		1
o-Xylene	95-47-6	0.0112	0.00202	mg/kg	06.01.2020 18:49		1
Total Xylenes	1330-20-7	0.0406	0.00202	mg/kg	06.01.2020 18:49		1
Total BTEX		0.108	0.00202	mg/kg	06.01.2020 18:49		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	06.01.2020 18:49		
4-Bromofluorobenzene	460-00-4	92	%	70-130	06.01.2020 18:49		



Flagging Criteria

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

****** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



LT Environmental, Inc.

ADU Hondo

Analytical Method: Chloride by EPA 300

Seq Number: 3127636

MB Sample Id: 7704530-1-BLK

Matrix: Solid

LCS Sample Id: 7704530-1-BKS

Prep Method: E300P

Date Prep: 06.01.2020

LCSD Sample Id: 7704530-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	250	100	250	100	90-110	0	20	mg/kg	06.01.2020 14:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3127636

Parent Sample Id: 663033-001

Matrix: Soil

MS Sample Id: 663033-001 S

Prep Method: E300P

Date Prep: 06.01.2020

MSD Sample Id: 663033-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	344	200	527	92	527	92	90-110	0	20	mg/kg	06.01.2020 14:24	

Analytical Method: Chloride by EPA 300

Seq Number: 3127636

Parent Sample Id: 663035-004

Matrix: Soil

MS Sample Id: 663035-004 S

Prep Method: E300P

Date Prep: 06.01.2020

MSD Sample Id: 663035-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	993	199	1180	94	1180	94	90-110	0	20	mg/kg	06.01.2020 16:02	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127596

MB Sample Id: 7704536-1-BLK

Matrix: Solid

LCS Sample Id: 7704536-1-BKS

Prep Method: SW8015P

Date Prep: 06.01.2020

LCSD Sample Id: 7704536-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	941	94	925	93	70-135	2	35	mg/kg	06.01.2020 12:44	
Diesel Range Organics (DRO)	<50.0	1000	1020	102	1010	101	70-135	1	35	mg/kg	06.01.2020 12:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	90		114		111		70-135	%	06.01.2020 12:44
o-Terphenyl	94		107		105		70-135	%	06.01.2020 12:44

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127603

MB Sample Id: 7704537-1-BLK

Matrix: Solid

LCS Sample Id: 7704537-1-BKS

Prep Method: SW8015P

Date Prep: 06.01.2020

LCSD Sample Id: 7704537-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	989	99	970	97	70-135	2	35	mg/kg	06.01.2020 12:44	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	992	99	70-135	4	35	mg/kg	06.01.2020 12:44	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		118		130		70-135	%	06.01.2020 12:44
o-Terphenyl	80		102		101		70-135	%	06.01.2020 12:44

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



LT Environmental, Inc.

ADU Hondo

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127596

Matrix: Solid

Prep Method: SW8015P

Date Prep: 06.01.2020

MB Sample Id: 7704536-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB
Result

<50.0

Units

mg/kg

Analysis
Date

06.01.2020 12:23

Flag

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127603

Matrix: Solid

Prep Method: SW8015P

Date Prep: 06.01.2020

MB Sample Id: 7704537-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB
Result

<50.0

Units

mg/kg

Analysis
Date

06.01.2020 12:23

Flag

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127596

Matrix: Soil

Prep Method: SW8015P

Date Prep: 06.01.2020

Parent Sample Id: 663033-001

MS Sample Id: 663033-001 S

MSD Sample Id: 663033-001 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

Parent
Result

<50.2

Spike
Amount

1000

MS
Result

981

MS
%Rec

98

MSD
Result

998

MSD
%Rec

100

Limits

70-135

%RPD

2

RPD
Limit

35

Units

mg/kg

Analysis
Date

06.01.2020 13:45

Flag

Diesel Range Organics (DRO)

151

1000

1200

105

1010

86

70-135

17

35

mg/kg

06.01.2020 13:45

Surrogate

1-Chlorooctane

MS
%Rec

113

MS
FlagMSD
%Rec

113

MSD
Flag

Limits

70-135

Units

%

Analysis
Date

06.01.2020 13:45

o-Terphenyl

104

104

70-135

%

06.01.2020 13:45

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127603

Matrix: Soil

Prep Method: SW8015P

Date Prep: 06.01.2020

Parent Sample Id: 663033-007

MS Sample Id: 663033-007 S

MSD Sample Id: 663033-007 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

Parent
Result

<50.2

Spike
Amount

1000

MS
Result

1110

MS
%Rec

111

MSD
Result

1010

MSD
%Rec

101

Limits

70-135

%RPD

9

RPD
Limit

35

Units

mg/kg

Analysis
Date

06.01.2020 13:45

Flag

Diesel Range Organics (DRO)

<50.2

1000

1140

114

1050

105

70-135

8

35

mg/kg

06.01.2020 13:45

Surrogate

1-Chlorooctane

MS
%Rec

120

MS
FlagMSD
%Rec

118

MSD
Flag

Limits

70-135

Units

%

Analysis
Date

06.01.2020 13:45

o-Terphenyl

106

101

70-135

%

06.01.2020 13:45

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



LT Environmental, Inc.
ADU Hondo

Analytical Method: BTEX by EPA 8021B

Seq Number: 3127638

MB Sample Id: 7704529-1-BLK

Matrix: Solid

LCS Sample Id: 7704529-1-BKS

Prep Method: SW5035A

Date Prep: 06.01.2020

LCSD Sample Id: 7704529-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.109	109	0.111	111	70-130	2	35	mg/kg	06.01.2020 12:01	
Toluene	<0.00200	0.100	0.105	105	0.106	106	70-130	1	35	mg/kg	06.01.2020 12:01	
Ethylbenzene	<0.00200	0.100	0.0988	99	0.100	100	71-129	1	35	mg/kg	06.01.2020 12:01	
m,p-Xylenes	<0.00400	0.200	0.204	102	0.208	104	70-135	2	35	mg/kg	06.01.2020 12:01	
o-Xylene	<0.00200	0.100	0.102	102	0.105	105	71-133	3	35	mg/kg	06.01.2020 12:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	111		107		109		70-130	%	06.01.2020 12:01
4-Bromofluorobenzene	96		89		92		70-130	%	06.01.2020 12:01

Analytical Method: BTEX by EPA 8021B

Seq Number: 3127638

Parent Sample Id: 663033-001

Matrix: Soil

MS Sample Id: 663033-001 S

Prep Method: SW5035A

Date Prep: 06.01.2020

MSD Sample Id: 663033-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.106	105	70-130	1	35	mg/kg	06.01.2020 17:07	
Toluene	0.119	0.100	0.202	83	0.202	82	70-130	0	35	mg/kg	06.01.2020 17:07	
Ethylbenzene	0.0352	0.100	0.125	90	0.116	80	71-129	7	35	mg/kg	06.01.2020 17:07	
m,p-Xylenes	0.105	0.200	0.297	96	0.290	92	70-135	2	35	mg/kg	06.01.2020 17:07	
o-Xylene	0.0348	0.100	0.129	94	0.130	94	71-133	1	35	mg/kg	06.01.2020 17:07	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		108		70-130	%	06.01.2020 17:07
4-Bromofluorobenzene	92		92		70-130	%	06.01.2020 17:07

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

Chain of Custody

Work Order No: 463035

www.xenco.com Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slc@lternv.com, dmoir@lternv.com

Program: UST/PST	☐ PRP	☐ Brownfields	☐ RRC	☐ Superfund
State of Project:				
Reporting Level II	☐ Level III	☐ ST/UST	☐ RRP	☐ Level IV
Deliverables: EDD	☐ ADAPT	Other:		

Project Name:	ADU Hondo	Turn Around	
Project Number:	012920017	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	1.8	Thermometer ID				
Received Intact:	Yes	No	Correction Factor:			-0.2
Cooler Custody Seals:	Yes	No	Total Containers:			5
Sample Custody Seals:	Yes	No				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	ANALYSIS REQUEST										Work Order Notes
					Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)							
SW01	S	5-28-20	9:15	0-3'	1	X	X	X							
SW02	S	5-28-20	9:30	0-3'	1	X	X	X							
SW03	S	5-28-20	9:45	0-3'	1	X	X	X							
SW04	S	5-28-20	10:00	0-2'	1	X	X	X							
SW05	S	5-28-20	10:15	0-2'	1	X	X	X							

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time

Signature: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time

Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time

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Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time

Certificate of Analysis Summary 668345



LT Environmental, Inc., Arvada, CO

Project Name: ADU Hondo

Project Id: 012920017

Date Received in Lab: Mon 07.27.2020 16:59

Contact: Dan Moir

Report Date: 07.30.2020 09:59

Project Location:

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	668345-001	668345-002	668345-003	668345-004	668345-005	668345-006
	<i>Field Id:</i>	SW18	SW17	SW16	SW19	SW20	FS01A
	<i>Depth:</i>	0-4 ft	0-4 ft	0-4 ft	0-4 ft	0-3 ft	3- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	07.27.2020 10:45	07.27.2020 11:10	07.27.2020 11:15	07.27.2020 13:30	07.27.2020 13:45	07.27.2020 14:00
BTEX by EPA 8021B	<i>Extracted:</i>	07.28.2020 15:08	07.28.2020 15:08	07.28.2020 15:08	07.28.2020 15:08	07.28.2020 15:08	07.28.2020 15:08
	<i>Analyzed:</i>	07.28.2020 15:13	07.28.2020 15:34	07.28.2020 15:54	07.28.2020 16:15	07.28.2020 16:35	07.28.2020 16:55
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00402 0.00402	<0.00400 0.00400	<0.00404 0.00404	<0.00402 0.00402	<0.00401 0.00401	<0.00402 0.00402
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	07.28.2020 12:00	07.28.2020 12:00	07.28.2020 12:00	07.28.2020 12:00	07.28.2020 12:00	07.28.2020 12:00
	<i>Analyzed:</i>	07.28.2020 12:29	07.28.2020 12:36	07.28.2020 12:43	07.28.2020 12:50	07.28.2020 15:23	07.28.2020 13:03
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		26.6 10.0	25.4 9.94	28.8 10.1	182 9.98	38.4 9.94	300 9.94
TPH by SW8015 Mod	<i>Extracted:</i>	07.28.2020 10:30	07.28.2020 10:30	07.28.2020 10:30	07.28.2020 10:30	07.28.2020 10:30	07.28.2020 10:30
	<i>Analyzed:</i>	07.28.2020 12:02	07.28.2020 12:22	07.28.2020 12:43	07.28.2020 13:03	07.28.2020 12:02	07.28.2020 12:22
	<i>Units/RL:</i>	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	<50.0 50.0	<50.3 50.3	<50.1 50.1	<50.3 50.3	<50.1 50.1
Diesel Range Organics (DRO)		<50.2 50.2	<50.0 50.0	<50.3 50.3	<50.1 50.1	<50.3 50.3	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.0 50.0	<50.3 50.3	<50.1 50.1	<50.3 50.3	<50.1 50.1
Total GRO-DRO		<50.2 50.2	<50.0 50.0	<50.3 50.3	<50.1 50.1	<50.3 50.3	<50.1 50.1
Total TPH		<50.2 50.2	<50.0 50.0	<50.3 50.3	<50.1 50.1	<50.3 50.3	<50.1 50.1

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 668345

LT Environmental, Inc., Arvada, CO

Project Name: ADU Hondo

Project Id: 012920017

Contact: Dan Moir

Project Location:

Date Received in Lab: Mon 07.27.2020 16:59

Report Date: 07.30.2020 09:59

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	668345-007	668345-008	668345-009			
	Field Id:	FS02A	FS18	FS19			
	Depth:	3- ft	4- ft	4- ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	07.27.2020 14:10	07.27.2020 14:45	07.27.2020 15:00			
BTEX by EPA 8021B	Extracted:	07.28.2020 15:08	07.28.2020 15:08	07.28.2020 15:08			
	Analyzed:	07.28.2020 17:16	07.28.2020 18:23	07.28.2020 18:52			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200			
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200			
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200			
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200			
m,p-Xylenes		<0.00402 0.00402	<0.00400 0.00400	<0.00401 0.00401			
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200			
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200			
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200			
Chloride by EPA 300	Extracted:	07.28.2020 12:56	07.28.2020 12:56	07.28.2020 12:56			
	Analyzed:	07.28.2020 14:06	07.28.2020 14:13	07.28.2020 13:45			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
		320 10.1	1220 10.1	1090 9.94			
Chloride							
TPH by SW8015 Mod	Extracted:	07.28.2020 10:30	07.28.2020 10:30	07.28.2020 13:15			
	Analyzed:	07.28.2020 12:43	07.28.2020 13:03	07.28.2020 13:23			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
		<50.0 50.0	<50.3 50.3	<50.1 50.1			
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.3 50.3	<50.1 50.1			
Diesel Range Organics (DRO)		73.1 50.0	<50.3 50.3	<50.1 50.1			
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.3 50.3	<50.1 50.1			
Total GRO-DRO		73.1 50.0	<50.3 50.3	<50.1 50.1			
Total TPH		73.1 50.0	<50.3 50.3	<50.1 50.1			

BRL - Below Reporting Limit

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





Analytical Report 668345

for

LT Environmental, Inc.

Project Manager: Dan Moir

ADU Hondo

012920017

07.30.2020

Collected By: Client

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

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



07.30.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **668345**

ADU Hondo

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 Eurofins Xenco, LLC Report Number(s) 668345. 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. 668345 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,

A handwritten signature in black ink that reads "Jessica Kramer".

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 668345****LT Environmental, Inc., Arvada, CO**

ADU Hondo

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW18	S	07.27.2020 10:45	0 - 4 ft	668345-001
SW17	S	07.27.2020 11:10	0 - 4 ft	668345-002
SW16	S	07.27.2020 11:15	0 - 4 ft	668345-003
SW19	S	07.27.2020 13:30	0 - 4 ft	668345-004
SW20	S	07.27.2020 13:45	0 - 3 ft	668345-005
FS01A	S	07.27.2020 14:00	3 ft	668345-006
FS02A	S	07.27.2020 14:10	3 ft	668345-007
FS18	S	07.27.2020 14:45	4 ft	668345-008
FS19	S	07.27.2020 15:00	4 ft	668345-009



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: ADU Hondo

Project ID: 012920017
Work Order Number(s): 668345

Report Date: 07.30.2020
Date Received: 07.27.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW18** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-001 Date Collected: 07.27.2020 10:45 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 12:00 Basis: Wet Weight
 Seq Number: 3132878

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	26.6	10.0	mg/kg	07.28.2020 12:29		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.28.2020 10:30 Basis: Wet Weight
 Seq Number: 3132869

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	07.28.2020 12:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	07.28.2020 12:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	07.28.2020 12:02	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	07.28.2020 12:02	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	07.28.2020 12:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	07.28.2020 12:02	
o-Terphenyl	84-15-1	99	%	70-135	07.28.2020 12:02	



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW18** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-001 Date Collected: 07.27.2020 10:45 Sample Depth: 0 - 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 15:08 Basis: Wet Weight
 Seq Number: 3132941

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.28.2020 15:13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.28.2020 15:13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.28.2020 15:13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.28.2020 15:13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.28.2020 15:13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.28.2020 15:13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.28.2020 15:13	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	07.28.2020 15:13		
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.28.2020 15:13		



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW17** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-002 Date Collected: 07.27.2020 11:10 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 12:00 Basis: Wet Weight
 Seq Number: 3132878

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	25.4	9.94	mg/kg	07.28.2020 12:36		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.28.2020 10:30 Basis: Wet Weight
 Seq Number: 3132869

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.28.2020 12:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.28.2020 12:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.28.2020 12:22	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	07.28.2020 12:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.28.2020 12:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	07.28.2020 12:22	
o-Terphenyl	84-15-1	96	%	70-135	07.28.2020 12:22	



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW17** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-002 Date Collected: 07.27.2020 11:10 Sample Depth: 0 - 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 15:08 Basis: Wet Weight
 Seq Number: 3132941

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.28.2020 15:34	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.28.2020 15:34	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.28.2020 15:34	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.28.2020 15:34	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.28.2020 15:34	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.28.2020 15:34	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.28.2020 15:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	07.28.2020 15:34		
1,4-Difluorobenzene	540-36-3	99	%	70-130	07.28.2020 15:34		



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

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Sample Id: **SW16** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-003 Date Collected: 07.27.2020 11:15 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 12:00 Basis: Wet Weight
 Seq Number: 3132878

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	28.8	10.1	mg/kg	07.28.2020 12:43		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.28.2020 10:30 Basis: Wet Weight
 Seq Number: 3132869

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	07.28.2020 12:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	07.28.2020 12:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	07.28.2020 12:43	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	07.28.2020 12:43	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	07.28.2020 12:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	07.28.2020 12:43	
o-Terphenyl	84-15-1	94	%	70-135	07.28.2020 12:43	



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW16** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-003 Date Collected: 07.27.2020 11:15 Sample Depth: 0 - 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 15:08 Basis: Wet Weight
 Seq Number: 3132941

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.28.2020 15:54	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.28.2020 15:54	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.28.2020 15:54	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	07.28.2020 15:54	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.28.2020 15:54	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	07.28.2020 15:54	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.28.2020 15:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.28.2020 15:54		
4-Bromofluorobenzene	460-00-4	101	%	70-130	07.28.2020 15:54		



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW19** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-004 Date Collected: 07.27.2020 13:30 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 12:00 Basis: Wet Weight
 Seq Number: 3132878

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	182	9.98	mg/kg	07.28.2020 12:50		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.28.2020 10:30 Basis: Wet Weight
 Seq Number: 3132869

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	07.28.2020 13:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	07.28.2020 13:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	07.28.2020 13:03	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	07.28.2020 13:03	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	07.28.2020 13:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	07.28.2020 13:03	
o-Terphenyl	84-15-1	94	%	70-135	07.28.2020 13:03	



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW19** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-004 Date Collected: 07.27.2020 13:30 Sample Depth: 0 - 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 15:08 Basis: Wet Weight
 Seq Number: 3132941

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.28.2020 16:15	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.28.2020 16:15	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.28.2020 16:15	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.28.2020 16:15	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.28.2020 16:15	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.28.2020 16:15	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.28.2020 16:15	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	07.28.2020 16:15		
4-Bromofluorobenzene	460-00-4	105	%	70-130	07.28.2020 16:15		



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

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Sample Id: **SW20** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-005 Date Collected: 07.27.2020 13:45 Sample Depth: 0 - 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 12:00 Basis: Wet Weight
 Seq Number: 3132878

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.4	9.94	mg/kg	07.28.2020 15:23		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.28.2020 10:30 Basis: Wet Weight
 Seq Number: 3132881

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	07.28.2020 12:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	07.28.2020 12:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	07.28.2020 12:02	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	07.28.2020 12:02	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	07.28.2020 12:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	07.28.2020 12:02	
o-Terphenyl	84-15-1	99	%	70-135	07.28.2020 12:02	



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Sample Id: **SW20** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-005 Date Collected: 07.27.2020 13:45 Sample Depth: 0 - 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 15:08 Basis: Wet Weight
 Seq Number: 3132941

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.28.2020 16:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.28.2020 16:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.28.2020 16:35	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.28.2020 16:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.28.2020 16:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.28.2020 16:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.28.2020 16:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	07.28.2020 16:35		
1,4-Difluorobenzene	540-36-3	104	%	70-130	07.28.2020 16:35		



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS01A** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-006 Date Collected: 07.27.2020 14:00 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 12:00 Basis: Wet Weight
 Seq Number: 3132878

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	300	9.94	mg/kg	07.28.2020 13:03		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.28.2020 10:30 Basis: Wet Weight
 Seq Number: 3132881

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	07.28.2020 12:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	07.28.2020 12:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	07.28.2020 12:22	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	07.28.2020 12:22	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	07.28.2020 12:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	07.28.2020 12:22	
o-Terphenyl	84-15-1	97	%	70-135	07.28.2020 12:22	



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS01A** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-006 Date Collected: 07.27.2020 14:00 Sample Depth: 3 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 15:08 Basis: Wet Weight
 Seq Number: 3132941

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.28.2020 16:55	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.28.2020 16:55	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.28.2020 16:55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.28.2020 16:55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.28.2020 16:55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.28.2020 16:55	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.28.2020 16:55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.28.2020 16:55		
4-Bromofluorobenzene	460-00-4	103	%	70-130	07.28.2020 16:55		



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS02A** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-007 Date Collected: 07.27.2020 14:10 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 12:56 Basis: Wet Weight
 Seq Number: 3132880

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	320	10.1	mg/kg	07.28.2020 14:06		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.28.2020 10:30 Basis: Wet Weight
 Seq Number: 3132881

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.28.2020 12:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	73.1	50.0	mg/kg	07.28.2020 12:43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.28.2020 12:43	U	1
Total GRO-DRO	PHC628	73.1	50.0	mg/kg	07.28.2020 12:43		1
Total TPH	PHC635	73.1	50.0	mg/kg	07.28.2020 12:43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	07.28.2020 12:43	
o-Terphenyl	84-15-1	96	%	70-135	07.28.2020 12:43	



Certificate of Analytical Results 668345

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Sample Id: **FS02A**
Lab Sample Id: 668345-007

Matrix: Soil
Date Collected: 07.27.2020 14:10

Date Received: 07.27.2020 16:59
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 07.28.2020 15:08

Basis: Wet Weight

Seq Number: 3132941

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.28.2020 17:16	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.28.2020 17:16	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.28.2020 17:16	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.28.2020 17:16	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.28.2020 17:16	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	07.28.2020 17:16	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.28.2020 17:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	07.28.2020 17:16		
1,4-Difluorobenzene	540-36-3	98	%	70-130	07.28.2020 17:16		



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

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Sample Id: **FS18** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-008 Date Collected: 07.27.2020 14:45 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 12:56 Basis: Wet Weight
 Seq Number: 3132880

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1220	10.1	mg/kg	07.28.2020 14:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.28.2020 10:30 Basis: Wet Weight
 Seq Number: 3132881

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	07.28.2020 13:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	07.28.2020 13:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	07.28.2020 13:03	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	07.28.2020 13:03	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	07.28.2020 13:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	07.28.2020 13:03	
o-Terphenyl	84-15-1	96	%	70-135	07.28.2020 13:03	



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS18** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-008 Date Collected: 07.27.2020 14:45 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 15:08 Basis: Wet Weight
 Seq Number: 3132941

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.28.2020 18:23	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.28.2020 18:23	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.28.2020 18:23	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.28.2020 18:23	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.28.2020 18:23	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.28.2020 18:23	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.28.2020 18:23	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	07.28.2020 18:23		
1,4-Difluorobenzene	540-36-3	96	%	70-130	07.28.2020 18:23		



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS19** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-009 Date Collected: 07.27.2020 15:00 Sample Depth: 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 12:56 Basis: Wet Weight
 Seq Number: 3132880

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1090	9.94	mg/kg	07.28.2020 13:45		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 07.28.2020 13:15 Basis: Wet Weight
 Seq Number: 3132881

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	07.28.2020 13:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	07.28.2020 13:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	07.28.2020 13:23	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	07.28.2020 13:23	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	07.28.2020 13:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	07.28.2020 13:23	
o-Terphenyl	84-15-1	97	%	70-135	07.28.2020 13:23	



Certificate of Analytical Results 668345

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS19** Matrix: Soil Date Received: 07.27.2020 16:59
 Lab Sample Id: 668345-009 Date Collected: 07.27.2020 15:00 Sample Depth: 4 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 07.28.2020 15:08 Basis: Wet Weight
 Seq Number: 3132941

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.28.2020 18:52	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.28.2020 18:52	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.28.2020 18:52	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.28.2020 18:52	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.28.2020 18:52	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	07.28.2020 18:52	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.28.2020 18:52	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.28.2020 18:52		
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.28.2020 18:52		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



LT Environmental, Inc.
ADU Hondo

Analytical Method: Chloride by EPA 300

Seq Number: 3132878

MB Sample Id: 7708136-1-BLK

Matrix: Solid

LCS Sample Id: 7708136-1-BKS

Prep Method: E300P

Date Prep: 07.28.2020

LCSD Sample Id: 7708136-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	269	108	266	106	90-110	1	20	mg/kg	07.28.2020 09:59	

Analytical Method: Chloride by EPA 300

Seq Number: 3132880

MB Sample Id: 7708215-1-BLK

Matrix: Solid

LCS Sample Id: 7708215-1-BKS

Prep Method: E300P

Date Prep: 07.28.2020

LCSD Sample Id: 7708215-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	269	108	265	106	90-110	1	20	mg/kg	07.28.2020 13:31	

Analytical Method: Chloride by EPA 300

Seq Number: 3132878

Parent Sample Id: 668234-001

Matrix: Soil

MS Sample Id: 668234-001 S

Prep Method: E300P

Date Prep: 07.28.2020

MSD Sample Id: 668234-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	65.4	201	260	97	257	97	90-110	1	20	mg/kg	07.28.2020 10:16	

Analytical Method: Chloride by EPA 300

Seq Number: 3132878

Parent Sample Id: 668309-002

Matrix: Soil

MS Sample Id: 668309-002 S

Prep Method: E300P

Date Prep: 07.28.2020

MSD Sample Id: 668309-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5960	200	6180	110	6180	109	90-110	0	20	mg/kg	07.28.2020 11:40	

Analytical Method: Chloride by EPA 300

Seq Number: 3132880

Parent Sample Id: 668117-008

Matrix: Soil

MS Sample Id: 668117-008 S

Prep Method: E300P

Date Prep: 07.28.2020

MSD Sample Id: 668117-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8870	202	9070	99	9090	109	90-110	0	20	mg/kg	07.28.2020 15:37	

Analytical Method: Chloride by EPA 300

Seq Number: 3132880

Parent Sample Id: 668345-009

Matrix: Soil

MS Sample Id: 668345-009 S

Prep Method: E300P

Date Prep: 07.28.2020

MSD Sample Id: 668345-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1090	200	1280	95	1290	100	90-110	1	20	mg/kg	07.28.2020 13:52	

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



LT Environmental, Inc.
ADU Hondo

Analytical Method: TPH by SW8015 Mod

Seq Number: 3132869

MB Sample Id: 7708266-1-BLK

Matrix: Solid

LCS Sample Id: 7708266-1-BKS

Prep Method: SW8015P

Date Prep: 07.28.2020

LCSD Sample Id: 7708266-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	926	93	917	92	70-135	1	35	mg/kg	07.28.2020 10:01	
Diesel Range Organics (DRO)	<50.0	1000	1000	100	1010	101	70-135	1	35	mg/kg	07.28.2020 10:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	95		112		110		70-135	%	07.28.2020 10:01
o-Terphenyl	96		103		106		70-135	%	07.28.2020 10:01

Analytical Method: TPH by SW8015 Mod

Seq Number: 3132881

MB Sample Id: 7708272-1-BLK

Matrix: Solid

LCS Sample Id: 7708272-1-BKS

Prep Method: SW8015P

Date Prep: 07.28.2020

LCSD Sample Id: 7708272-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1030	103	1060	106	70-135	3	35	mg/kg	07.28.2020 10:01	
Diesel Range Organics (DRO)	<50.0	1000	1070	107	1120	112	70-135	5	35	mg/kg	07.28.2020 10:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		122		119		70-135	%	07.28.2020 10:01
o-Terphenyl	103		109		113		70-135	%	07.28.2020 10:01

Analytical Method: TPH by SW8015 Mod

Seq Number: 3132869

Matrix: Solid

MB Sample Id: 7708266-1-BLK

Prep Method: SW8015P

Date Prep: 07.28.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.28.2020 09:40	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3132881

Matrix: Solid

MB Sample Id: 7708272-1-BLK

Prep Method: SW8015P

Date Prep: 07.28.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.28.2020 09:40	

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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

LT Environmental, Inc.
ADU Hondo

Analytical Method: TPH by SW8015 Mod

Seq Number: 3132869

Parent Sample Id: 668311-001

Matrix: Soil

MS Sample Id: 668311-001 S

Prep Method: SW8015P

Date Prep: 07.28.2020

MSD Sample Id: 668311-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	890	89	882	88	70-135	1	35	mg/kg	07.28.2020 11:01	
Diesel Range Organics (DRO)	1240	1000	2090	85	2030	79	70-135	3	35	mg/kg	07.28.2020 11:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		106		70-135	%	07.28.2020 11:01
o-Terphenyl	107		102		70-135	%	07.28.2020 11:01

Analytical Method: TPH by SW8015 Mod

Seq Number: 3132881

Parent Sample Id: 668311-002

Matrix: Soil

MS Sample Id: 668311-002 S

Prep Method: SW8015P

Date Prep: 07.28.2020

MSD Sample Id: 668311-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1140	114	1050	104	70-135	8	35	mg/kg	07.28.2020 11:01	
Diesel Range Organics (DRO)	1830	1000	2870	104	2580	74	70-135	11	35	mg/kg	07.28.2020 11:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	127		116		70-135	%	07.28.2020 11:01
o-Terphenyl	111		102		70-135	%	07.28.2020 11:01

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132941

MB Sample Id: 7708218-1-BLK

Matrix: Solid

LCS Sample Id: 7708218-1-BKS

Prep Method: SW5035A

Date Prep: 07.28.2020

LCSD Sample Id: 7708218-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.101	101	0.101	101	70-130	0	35	mg/kg	07.28.2020 11:40	
Toluene	<0.00200	0.100	0.0962	96	0.0940	94	70-130	2	35	mg/kg	07.28.2020 11:40	
Ethylbenzene	<0.00200	0.100	0.0991	99	0.0998	100	71-129	1	35	mg/kg	07.28.2020 11:40	
m,p-Xylenes	<0.00400	0.200	0.204	102	0.201	101	70-135	1	35	mg/kg	07.28.2020 11:40	
o-Xylene	<0.00200	0.100	0.102	102	0.101	101	71-133	1	35	mg/kg	07.28.2020 11:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		101		97		70-130	%	07.28.2020 11:40
4-Bromofluorobenzene	97		100		97		70-130	%	07.28.2020 11:40

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

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

 LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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

LT Environmental, Inc.
 ADU Hondo
Analytical Method: BTEX by EPA 8021B

Seq Number: 3132941

Parent Sample Id: 668311-001

Matrix: Soil

MS Sample Id: 668311-001 S

Prep Method: SW5035A

Date Prep: 07.28.2020

MSD Sample Id: 668311-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.00894	0.101	0.102	92	0.106	97	70-130	4	35	mg/kg	07.28.2020 13:01	
Toluene	0.00265	0.101	0.0976	94	0.0957	93	70-130	2	35	mg/kg	07.28.2020 13:01	
Ethylbenzene	0.0101	0.101	0.103	92	0.0906	81	71-129	13	35	mg/kg	07.28.2020 13:01	
m,p-Xylenes	0.00501	0.202	0.213	103	0.197	96	70-135	8	35	mg/kg	07.28.2020 13:01	
o-Xylene	0.00796	0.101	0.107	98	0.0992	91	71-133	8	35	mg/kg	07.28.2020 13:01	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		100		70-130	%	07.28.2020 13:01
4-Bromofluorobenzene	101		101		70-130	%	07.28.2020 13:01

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



Chain of Custody

Work Order No: 6608345

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) 565-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

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Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littlell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slc@ltenv.com dmoir@ltenv.com

Program: ☒ UST/PST ☐ PRP ☐ Brownfields ☐ TRC ☐ Superfund State of Project:	
Reporting Level II ☐	Level III ☐
Deliverables: EDD ☐	ADAPT ☐
Other: ☐	

Project Name:	ADU Honda	Turn Around	☒
Project Number:	D12920017	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

Temperature (°C):	4.8 / 4.0	Temp Blank:	☒ Yes ☐ No	Wet Ice:	☒ Yes ☐ No
Received Intact:	☒ Yes ☐ No	Thermometer ID	TMM007		
Cooler Custody Seals:	☒ Yes ☐ No	Correction Factor:	-0.2		
Sample Custody Seals:	☒ Yes ☐ No	Total Containers:	9		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST	Work Order Notes
Sw18	S	7-27-20	1045	0-4'	1	X	X	X		
Sw17			1100	0-4'						
Sw16			1115	0-4'						
Sw19			1330	0-4'						
Sw20			1345	0-3'						
FS01A			1400	3'						
FS02A			1410	3'						
FS18			1445	4'						
FS19			1500	4'						

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions 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 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.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	7/27/20 16:59			
		4			
		6			

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 07.27.2020 04.59.00 PM

Work Order #: 668345

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	4.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated 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

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Elizabeth McClellan

Date: 07.28.2020

Checklist reviewed by:



Jessica Kramer

Date: 07.28.2020

Certificate of Analysis Summary 671126

LT Environmental, Inc., Arvada, CO

Project Name: ADU Hondo

Project Id: 012920017

Contact: Dan Moir

Project Location:

Date Received in Lab: Wed 08.26.2020 17:15

Report Date: 09.01.2020 09:12

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	671126-001	671126-002				
	Field Id:	FS20	FS21				
	Depth:	1-	1- ft				
	Matrix:	SOIL	SOIL				
	Sampled:	08.26.2020 09:55	08.26.2020 10:05				
BTEX by EPA 8021B	Extracted:	08.27.2020 12:30	08.27.2020 12:30				
	Analyzed:	08.27.2020 13:48	08.27.2020 14:08				
	Units/RL:	mg/kg RL	mg/kg RL				
		<0.00200 0.00200	<0.00200 0.00200				
Benzene		<0.00200 0.00200	<0.00200 0.00200				
Toluene		<0.00200 0.00200	<0.00200 0.00200				
Ethylbenzene		<0.00200 0.00200	<0.00200 0.00200				
m,p-Xylenes		<0.00399 0.00399	<0.00399 0.00399				
o-Xylene		<0.00200 0.00200	<0.00200 0.00200				
Total Xylenes		<0.00200 0.00200	<0.00200 0.00200				
Total BTEX		<0.00200 0.00200	<0.00200 0.00200				
Chloride by EPA 300	Extracted:	08.27.2020 13:26	08.27.2020 13:26				
	Analyzed:	08.27.2020 17:38	08.27.2020 17:44				
	Units/RL:	mg/kg RL	mg/kg RL				
		166 9.98	176 9.94				
Chloride		166 9.98	176 9.94				
TPH by SW8015 Mod	Extracted:	08.27.2020 13:00	08.27.2020 13:00				
	Analyzed:	08.27.2020 14:27	08.27.2020 15:28				
	Units/RL:	mg/kg RL	mg/kg RL				
		<49.8 49.8	<50.0 50.0				
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0				
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0				
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0				
Total GRO-DRO		<49.8 49.8	<50.0 50.0				
Total TPH		<49.8 49.8	<50.0 50.0				

BRL - Below Reporting Limit

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





Analytical Report 671126

for

LT Environmental, Inc.

Project Manager: Dan Moir

ADU Hondo

012920017

09.01.2020

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-37), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

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



09.01.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: Eurofins Xenco, LLC Report No(s): **671126**

ADU Hondo

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 Eurofins Xenco, LLC Report Number(s) 671126. 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. 671126 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,

A handwritten signature in black ink that reads "Jessica Kramer".

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 671126

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS20	S	08.26.2020 09:55	1	671126-001
FS21	S	08.26.2020 10:05	1 ft	671126-002



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: ADU Hondo

Project ID: 012920017
Work Order Number(s): 671126

Report Date: 09.01.2020
Date Received: 08.26.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 671126

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS20** Matrix: Soil Date Received: 08.26.2020 17:15
 Lab Sample Id: 671126-001 Date Collected: 08.26.2020 09:55 Sample Depth: 1
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 08.27.2020 13:26 Basis: Wet Weight
 Seq Number: 3135807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	166	9.98	mg/kg	08.27.2020 17:38		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 08.27.2020 13:00 Basis: Wet Weight
 Seq Number: 3135805

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.27.2020 14:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.27.2020 14:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.27.2020 14:27	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	08.27.2020 14:27	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.27.2020 14:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	08.27.2020 14:27	
o-Terphenyl	84-15-1	113	%	70-135	08.27.2020 14:27	



Certificate of Analytical Results 671126

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS20** Matrix: Soil Date Received: 08.26.2020 17:15
 Lab Sample Id: 671126-001 Date Collected: 08.26.2020 09:55 Sample Depth: 1
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 08.27.2020 12:30 Basis: Wet Weight
 Seq Number: 3135786

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.27.2020 13:48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.27.2020 13:48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.27.2020 13:48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.27.2020 13:48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.27.2020 13:48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.27.2020 13:48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.27.2020 13:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.27.2020 13:48		
4-Bromofluorobenzene	460-00-4	108	%	70-130	08.27.2020 13:48		



Certificate of Analytical Results 671126

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS21** Matrix: Soil Date Received: 08.26.2020 17:15
 Lab Sample Id: 671126-002 Date Collected: 08.26.2020 10:05 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 08.27.2020 13:26 Basis: Wet Weight
 Seq Number: 3135807

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	176	9.94	mg/kg	08.27.2020 17:44		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 08.27.2020 13:00 Basis: Wet Weight
 Seq Number: 3135805

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.27.2020 15:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.27.2020 15:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.27.2020 15:28	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	08.27.2020 15:28	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.27.2020 15:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-135	08.27.2020 15:28	
o-Terphenyl	84-15-1	120	%	70-135	08.27.2020 15:28	



Certificate of Analytical Results 671126

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **FS21** Matrix: Soil Date Received: 08.26.2020 17:15
 Lab Sample Id: 671126-002 Date Collected: 08.26.2020 10:05 Sample Depth: 1 ft
 Analytical Method: BTEX by EPA 8021B Prep Method: SW5035A
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 08.27.2020 12:30 Basis: Wet Weight
 Seq Number: 3135786

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.27.2020 14:08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.27.2020 14:08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.27.2020 14:08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.27.2020 14:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.27.2020 14:08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	08.27.2020 14:08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.27.2020 14:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	08.27.2020 14:08		
1,4-Difluorobenzene	540-36-3	98	%	70-130	08.27.2020 14:08		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



LT Environmental, Inc.
ADU Hondo

Analytical Method: Chloride by EPA 300

Seq Number: 3135807

MB Sample Id: 7710281-1-BLK

Matrix: Solid

LCS Sample Id: 7710281-1-BKS

Prep Method: E300P

Date Prep: 08.27.2020

LCSD Sample Id: 7710281-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	262	105	265	106	90-110	1	20	mg/kg	08.27.2020 15:19	

Analytical Method: Chloride by EPA 300

Seq Number: 3135807

Parent Sample Id: 671133-001

Matrix: Soil

MS Sample Id: 671133-001 S

Prep Method: E300P

Date Prep: 08.27.2020

MSD Sample Id: 671133-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.8	199	212	101	211	100	90-110	0	20	mg/kg	08.27.2020 15:36	

Analytical Method: Chloride by EPA 300

Seq Number: 3135807

Parent Sample Id: 671133-011

Matrix: Soil

MS Sample Id: 671133-011 S

Prep Method: E300P

Date Prep: 08.27.2020

MSD Sample Id: 671133-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	286	199	467	91	481	98	90-110	3	20	mg/kg	08.27.2020 16:54	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3135805

MB Sample Id: 7710279-1-BLK

Matrix: Solid

LCS Sample Id: 7710279-1-BKS

Prep Method: SW8015P

Date Prep: 08.27.2020

LCSD Sample Id: 7710279-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1000	100	964	96	70-135	4	35	mg/kg	08.27.2020 13:47	
Diesel Range Organics (DRO)	<50.0	1000	1080	108	1050	105	70-135	3	35	mg/kg	08.27.2020 13:47	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		127		132		70-135	%	08.27.2020 13:47
o-Terphenyl	114		127		118		70-135	%	08.27.2020 13:47

Analytical Method: TPH by SW8015 Mod

Seq Number: 3135805

Matrix: Solid

MB Sample Id: 7710279-1-BLK

Prep Method: SW8015P

Date Prep: 08.27.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.27.2020 13:27	

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



LT Environmental, Inc.
ADU Hondo

Analytical Method: TPH by SW8015 Mod

Seq Number: 3135805

Parent Sample Id: 671126-001

Matrix: Soil

MS Sample Id: 671126-001 S

Prep Method: SW8015P

Date Prep: 08.27.2020

MSD Sample Id: 671126-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	947	95	969	97	70-135	2	35	mg/kg	08.27.2020 14:47	
Diesel Range Organics (DRO)	<50.0	999	1040	104	1050	105	70-135	1	35	mg/kg	08.27.2020 14:47	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	132		134		70-135	%	08.27.2020 14:47
o-Terphenyl	124		124		70-135	%	08.27.2020 14:47

Analytical Method: BTEX by EPA 8021B

Seq Number: 3135786

MB Sample Id: 7710267-1-BLK

Matrix: Solid

LCS Sample Id: 7710267-1-BKS

Prep Method: SW5035A

Date Prep: 08.27.2020

LCSD Sample Id: 7710267-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.104	104	0.101	101	70-130	3	35	mg/kg	08.27.2020 11:30	
Toluene	<0.00200	0.100	0.100	100	0.0974	97	70-130	3	35	mg/kg	08.27.2020 11:30	
Ethylbenzene	<0.00200	0.100	0.106	106	0.102	102	71-129	4	35	mg/kg	08.27.2020 11:30	
m,p-Xylenes	<0.00400	0.200	0.213	107	0.209	105	70-135	2	35	mg/kg	08.27.2020 11:30	
o-Xylene	<0.00200	0.100	0.105	105	0.102	102	71-133	3	35	mg/kg	08.27.2020 11:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		98		97		70-130	%	08.27.2020 11:30
4-Bromofluorobenzene	111		99		98		70-130	%	08.27.2020 11:30

Analytical Method: BTEX by EPA 8021B

Seq Number: 3135786

Parent Sample Id: 671126-001

Matrix: Soil

MS Sample Id: 671126-001 S

Prep Method: SW5035A

Date Prep: 08.27.2020

MSD Sample Id: 671126-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.111	111	0.0960	96	70-130	14	35	mg/kg	08.27.2020 12:32	
Toluene	<0.00199	0.0996	0.104	104	0.0924	93	70-130	12	35	mg/kg	08.27.2020 12:32	
Ethylbenzene	<0.00199	0.0996	0.110	110	0.0957	96	71-129	14	35	mg/kg	08.27.2020 12:32	
m,p-Xylenes	<0.00398	0.199	0.220	111	0.195	98	70-135	12	35	mg/kg	08.27.2020 12:32	
o-Xylene	<0.00199	0.0996	0.108	108	0.0967	97	71-133	11	35	mg/kg	08.27.2020 12:32	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		98		70-130	%	08.27.2020 12:32
4-Bromofluorobenzene	101		102		70-130	%	08.27.2020 12:32

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



Chain of Custody

Work Order No: 1071126

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

www.xenco.com

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littlell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slc@ltenv.com, dmair@ltenv.com

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐ State of Project:	
Reporting Level: I ☐ II ☐ III ☐ ST/UST ☐ RRP ☐ Level IV ☐	Deliverables: EDD ☐ ADAPT ☐ Other: ☐

ANALYSIS REQUEST

Work Order Notes

Project Name:	Adv Honda	Turn Around	
Project Number:	012920017	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT	Temp Blank:	☒ Yes	☐ No	Wet Ice:	☒ Yes	☐ No
Temperature (°C):	5.2 / 5.0	Thermometer ID				
Received Intact:	☒ Yes	☐ No	Correction Factor:			
Cooler Custody Seals:	Yes ☒ No ☐ N/A	Total Containers:				
Sample Custody Seals:	Yes ☒ No ☐ N/A	2				

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers
-----------------------	--------	--------------	--------------	-------	----------------------

FS 20	S	8-26-20	955	1'	1
FS 21	S	8-26-20	1005	1'	1

TPH (EPA 8015) ☒

BTEX (EPA 0-8021) ☒

Chloride (EPA 300.0) ☒

TAT starts the day received by the lab, if received by 4:30pm

Sample Comments

Element	Result	Unit	Notes
Al			
Sb			
As			
Ba			
Be			
B			
Cd			
Ca			
Cr			
Co			
Cu			
Pb			
Mg			
Mn			
Mo			
Ni			
K			
Se			
Ag			
Ti			
U			
Si			
Ag			
SiO2			
Na			
Sr			
Ti			
Sn			
U			
V			
Zn			
Hg			

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag Ti U

1631 / 245.1 / 7470 / 7471 : Hg

Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Signature

Signature

8:26:20 17:15

2

4

6

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 08.26.2020 05.15.00 PM

Work Order #: 671126

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T_NM_007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated 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

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Cloe Clifton

Date: 08.27.2020

Checklist reviewed by:



Jessica Kramer

Date: 08.28.2020



Certificate of Analysis Summary 663131

LT Environmental, Inc., Arvada, CO

Project Name: ADU Hondo

Project Id: 012920017

Contact: Dan Moir

Project Location:

Date Received in Lab: Tue 06.02.2020 08:15

Report Date: 06.03.2020 12:09

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	663131-001	663131-002	663131-003	663131-004	663131-005	663131-006
	<i>Field Id:</i>	SW06	SW07	SW08	SW09	SW10	SW11
	<i>Depth:</i>	0-4 ft	0-4 ft	0-4 ft	0-4 ft	0-4 ft	0-4 ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	06.01.2020 10:05	06.01.2020 10:00	06.01.2020 09:55	05.28.2020 14:20	05.28.2020 14:40	05.28.2020 15:00
BTEX by EPA 8021B	<i>Extracted:</i>	06.02.2020 10:48	06.02.2020 10:48	06.02.2020 10:48	06.02.2020 10:48	06.02.2020 10:48	06.02.2020 10:48
	<i>Analyzed:</i>	06.02.2020 18:54	06.02.2020 19:15	06.02.2020 19:35	06.02.2020 19:55	06.02.2020 20:16	06.02.2020 20:36
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00202 0.00202
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	0.0242 0.00201	0.0326 0.00201	<0.00202 0.00202
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00202 0.00202
m,p-Xylenes		<0.00404 0.00404	<0.00400 0.00400	<0.00400 0.00400	<0.00402 0.00402	0.0119 0.00402	<0.00403 0.00403
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00201 0.00201	<0.00202 0.00202
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	0.0119 0.00201	<0.00202 0.00202
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	0.0242 0.00201	0.0445 0.00201	<0.00202 0.00202
Chloride by EPA 300	<i>Extracted:</i>	06.02.2020 10:43	06.02.2020 10:43	06.02.2020 10:43	06.02.2020 10:43	06.02.2020 10:43	06.02.2020 10:43
	<i>Analyzed:</i>	06.02.2020 13:14	06.02.2020 13:21	06.02.2020 13:40	06.02.2020 13:47	06.02.2020 13:53	06.02.2020 14:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		62.3 10.1	110 10.1	283 10.1	275 10.0	72.7 10.0	46.0 10.0
TPH by SW8015 Mod	<i>Extracted:</i>	06.02.2020 11:00	06.02.2020 11:00	06.02.2020 11:00	06.02.2020 11:00	06.02.2020 11:00	06.02.2020 11:00
	<i>Analyzed:</i>	06.02.2020 13:26	06.02.2020 14:28	06.02.2020 14:48	06.02.2020 15:09	06.02.2020 15:30	06.02.2020 15:50
	<i>Units/RL:</i>	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	<50.2 50.2	<49.8 49.8	<49.8 49.8	<49.9 49.9	<49.8 49.8
Diesel Range Organics (DRO)		250 50.2	<50.2 50.2	69.6 49.8	571 49.8	570 49.9	545 49.8
Motor Oil Range Hydrocarbons (MRO)		81.4 50.2	<50.2 50.2	<49.8 49.8	74.3 49.8	71.8 49.9	65.4 49.8
Total GRO-DRO		250 50.2	<50.2 50.2	69.6 49.8	571 49.8	570 49.9	545 49.8
Total TPH		331 50.2	<50.2 50.2	69.6 49.8	645 49.8	642 49.9	610 49.8

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.

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 663131

LT Environmental, Inc., Arvada, CO

Project Name: ADU Hondo

Project Id: 012920017

Contact: Dan Moir

Project Location:

Date Received in Lab: Tue 06.02.2020 08:15

Report Date: 06.03.2020 12:09

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	663131-007	663131-008	663131-009	663131-010		
	<i>Field Id:</i>	SW12	SW13	SW14	SW15		
	<i>Depth:</i>	0-4 ft	0-4 ft	0-4 ft	0-4 ft		
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL		
	<i>Sampled:</i>	06.01.2020 15:10	06.01.2020 15:20	06.01.2020 15:30	06.01.2020 09:25		
BTEX by EPA 8021B	<i>Extracted:</i>	06.02.2020 10:48	06.02.2020 10:48	06.02.2020 14:51	06.02.2020 14:51		
	<i>Analyzed:</i>	06.02.2020 20:57	06.02.2020 21:17	06.03.2020 00:21	06.03.2020 00:41		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200		
Toluene		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200		
Ethylbenzene		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200		
m,p-Xylenes		<0.00396 0.00396	<0.00402 0.00402	<0.00401 0.00401	<0.00401 0.00401		
o-Xylene		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200		
Total Xylenes		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200		
Total BTEX		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200		
Chloride by EPA 300	<i>Extracted:</i>	06.02.2020 10:43	06.02.2020 10:43	06.02.2020 13:46	06.02.2020 13:46		
	<i>Analyzed:</i>	06.02.2020 14:06	06.02.2020 15:11	06.02.2020 15:31	06.02.2020 15:50		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		324 10.0	291 10.0	120 9.92	13.1 10.1		
TPH by SW8015 Mod	<i>Extracted:</i>	06.02.2020 11:00	06.02.2020 11:00	06.02.2020 11:00	06.02.2020 11:00		
	<i>Analyzed:</i>	06.02.2020 16:11	06.03.2020 09:51	06.03.2020 10:11	06.03.2020 10:32		
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<50.2 50.2	<50.0 50.0		
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<50.2 50.2	<50.0 50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<50.2 50.2	<50.0 50.0		
Total GRO-DRO		<49.9 49.9	<49.9 49.9	<50.2 50.2	<50.0 50.0		
Total TPH		<49.9 49.9	<49.9 49.9	<50.2 50.2	<50.0 50.0		

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.

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

Jessica Kramer
Project Manager



Analytical Report 663131

for

LT Environmental, Inc.

Project Manager: Dan Moir

ADU Hondo

012920017

06.03.2020

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-23), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-20-6)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



06.03.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **663131**

ADU Hondo

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) 663131. 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. 663131 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,

A handwritten signature in black ink that reads 'Jessica Kramer'.

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 663131****LT Environmental, Inc., Arvada, CO**

ADU Hondo

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW06	S	06.01.2020 10:05	0 - 4 ft	663131-001
SW07	S	06.01.2020 10:00	0 - 4 ft	663131-002
SW08	S	06.01.2020 09:55	0 - 4 ft	663131-003
SW09	S	05.28.2020 14:20	0 - 4 ft	663131-004
SW10	S	05.28.2020 14:40	0 - 4 ft	663131-005
SW11	S	05.28.2020 15:00	0 - 4 ft	663131-006
SW12	S	06.01.2020 15:10	0 - 4 ft	663131-007
SW13	S	06.01.2020 15:20	0 - 4 ft	663131-008
SW14	S	06.01.2020 15:30	0 - 4 ft	663131-009
SW15	S	06.01.2020 09:25	0 - 4 ft	663131-010



CASE NARRATIVE

Client Name: *LT Environmental, Inc.*

Project Name: *ADU Hondo*

Project ID: 012920017
Work Order Number(s): 663131

Report Date: 06.03.2020
Date Received: 06.02.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW06** Matrix: Soil Date Received: 06.02.2020 08:15
 Lab Sample Id: 663131-001 Date Collected: 06.01.2020 10:05 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.02.2020 10:43 Basis: Wet Weight
 Seq Number: 3127754

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	62.3	10.1	mg/kg	06.02.2020 13:14		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.02.2020 11:00 Basis: Wet Weight
 Seq Number: 3127798

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	06.02.2020 13:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	250	50.2	mg/kg	06.02.2020 13:26		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	81.4	50.2	mg/kg	06.02.2020 13:26		1
Total GRO-DRO	PHC628	250	50.2	mg/kg	06.02.2020 13:26		1
Total TPH	PHC635	331	50.2	mg/kg	06.02.2020 13:26		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	06.02.2020 13:26	
o-Terphenyl	84-15-1	92	%	70-135	06.02.2020 13:26	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW06**
Lab Sample Id: 663131-001

Matrix: Soil
Date Collected: 06.01.2020 10:05

Date Received: 06.02.2020 08:15
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.02.2020 10:48

Basis: Wet Weight

Seq Number: 3127759

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.02.2020 18:54	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.02.2020 18:54	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.02.2020 18:54	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	06.02.2020 18:54	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.02.2020 18:54	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.02.2020 18:54	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.02.2020 18:54	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	06.02.2020 18:54		
4-Bromofluorobenzene	460-00-4	90	%	70-130	06.02.2020 18:54		



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW07** Matrix: Soil Date Received: 06.02.2020 08:15
 Lab Sample Id: 663131-002 Date Collected: 06.01.2020 10:00 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.02.2020 10:43 Basis: Wet Weight
 Seq Number: 3127754

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	110	10.1	mg/kg	06.02.2020 13:21		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.02.2020 11:00 Basis: Wet Weight
 Seq Number: 3127798

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	06.02.2020 14:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	06.02.2020 14:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	06.02.2020 14:28	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	06.02.2020 14:28	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	06.02.2020 14:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	06.02.2020 14:28	
o-Terphenyl	84-15-1	90	%	70-135	06.02.2020 14:28	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW07**
Lab Sample Id: 663131-002

Matrix: Soil
Date Collected: 06.01.2020 10:00

Date Received: 06.02.2020 08:15
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.02.2020 10:48

Basis: Wet Weight

Seq Number: 3127759

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.02.2020 19:15	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.02.2020 19:15	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.02.2020 19:15	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.02.2020 19:15	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.02.2020 19:15	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.02.2020 19:15	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.02.2020 19:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	06.02.2020 19:15	
4-Bromofluorobenzene	460-00-4	96	%	70-130	06.02.2020 19:15	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW08** Matrix: Soil Date Received: 06.02.2020 08:15
 Lab Sample Id: 663131-003 Date Collected: 06.01.2020 09:55 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.02.2020 10:43 Basis: Wet Weight
 Seq Number: 3127754

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	283	10.1	mg/kg	06.02.2020 13:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.02.2020 11:00 Basis: Wet Weight
 Seq Number: 3127798

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.02.2020 14:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	69.6	49.8	mg/kg	06.02.2020 14:48		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	06.02.2020 14:48	U	1
Total GRO-DRO	PHC628	69.6	49.8	mg/kg	06.02.2020 14:48		1
Total TPH	PHC635	69.6	49.8	mg/kg	06.02.2020 14:48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	06.02.2020 14:48	
o-Terphenyl	84-15-1	76	%	70-135	06.02.2020 14:48	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW08**
Lab Sample Id: 663131-003

Matrix: Soil
Date Collected: 06.01.2020 09:55

Date Received: 06.02.2020 08:15
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.02.2020 10:48

Basis: Wet Weight

Seq Number: 3127759

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.02.2020 19:35	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.02.2020 19:35	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.02.2020 19:35	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	06.02.2020 19:35	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.02.2020 19:35	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.02.2020 19:35	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.02.2020 19:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	06.02.2020 19:35	
1,4-Difluorobenzene	540-36-3	111	%	70-130	06.02.2020 19:35	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW09** Matrix: Soil Date Received: 06.02.2020 08:15
 Lab Sample Id: 663131-004 Date Collected: 05.28.2020 14:20 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.02.2020 10:43 Basis: Wet Weight
 Seq Number: 3127754

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	275	10.0	mg/kg	06.02.2020 13:47		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.02.2020 11:00 Basis: Wet Weight
 Seq Number: 3127798

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.02.2020 15:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	571	49.8	mg/kg	06.02.2020 15:09		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	74.3	49.8	mg/kg	06.02.2020 15:09		1
Total GRO-DRO	PHC628	571	49.8	mg/kg	06.02.2020 15:09		1
Total TPH	PHC635	645	49.8	mg/kg	06.02.2020 15:09		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-135	06.02.2020 15:09	
o-Terphenyl	84-15-1	79	%	70-135	06.02.2020 15:09	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW09**
Lab Sample Id: 663131-004

Matrix: Soil
Date Collected: 05.28.2020 14:20

Date Received: 06.02.2020 08:15
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.02.2020 10:48

Basis: Wet Weight

Seq Number: 3127759

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.02.2020 19:55	U	1
Toluene	108-88-3	0.0242	0.00201	mg/kg	06.02.2020 19:55		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.02.2020 19:55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.02.2020 19:55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.02.2020 19:55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.02.2020 19:55	U	1
Total BTEX		0.0242	0.00201	mg/kg	06.02.2020 19:55		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	06.02.2020 19:55		
4-Bromofluorobenzene	460-00-4	95	%	70-130	06.02.2020 19:55		



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW10** Matrix: Soil Date Received: 06.02.2020 08:15
 Lab Sample Id: 663131-005 Date Collected: 05.28.2020 14:40 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.02.2020 10:43 Basis: Wet Weight
 Seq Number: 3127754

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	72.7	10.0	mg/kg	06.02.2020 13:53		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.02.2020 11:00 Basis: Wet Weight
 Seq Number: 3127798

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.02.2020 15:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	570	49.9	mg/kg	06.02.2020 15:30		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	71.8	49.9	mg/kg	06.02.2020 15:30		1
Total GRO-DRO	PHC628	570	49.9	mg/kg	06.02.2020 15:30		1
Total TPH	PHC635	642	49.9	mg/kg	06.02.2020 15:30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	06.02.2020 15:30	
o-Terphenyl	84-15-1	94	%	70-135	06.02.2020 15:30	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW10**
Lab Sample Id: 663131-005

Matrix: Soil
Date Collected: 05.28.2020 14:40

Date Received: 06.02.2020 08:15
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.02.2020 10:48

Basis: Wet Weight

Seq Number: 3127759

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.02.2020 20:16	U	1
Toluene	108-88-3	0.0326	0.00201	mg/kg	06.02.2020 20:16		1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.02.2020 20:16	U	1
m,p-Xylenes	179601-23-1	0.0119	0.00402	mg/kg	06.02.2020 20:16		1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.02.2020 20:16	U	1
Total Xylenes	1330-20-7	0.0119	0.00201	mg/kg	06.02.2020 20:16		1
Total BTEX		0.0445	0.00201	mg/kg	06.02.2020 20:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	06.02.2020 20:16	
4-Bromofluorobenzene	460-00-4	92	%	70-130	06.02.2020 20:16	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW11** Matrix: Soil Date Received: 06.02.2020 08:15
 Lab Sample Id: 663131-006 Date Collected: 05.28.2020 15:00 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.02.2020 10:43 Basis: Wet Weight
 Seq Number: 3127754

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	46.0	10.0	mg/kg	06.02.2020 14:00		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.02.2020 11:00 Basis: Wet Weight
 Seq Number: 3127798

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	06.02.2020 15:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	545	49.8	mg/kg	06.02.2020 15:50		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	65.4	49.8	mg/kg	06.02.2020 15:50		1
Total GRO-DRO	PHC628	545	49.8	mg/kg	06.02.2020 15:50		1
Total TPH	PHC635	610	49.8	mg/kg	06.02.2020 15:50		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	06.02.2020 15:50	
o-Terphenyl	84-15-1	93	%	70-135	06.02.2020 15:50	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW11**
Lab Sample Id: 663131-006

Matrix: Soil
Date Collected: 05.28.2020 15:00

Date Received: 06.02.2020 08:15
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.02.2020 10:48

Basis: Wet Weight

Seq Number: 3127759

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	06.02.2020 20:36	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	06.02.2020 20:36	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	06.02.2020 20:36	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	06.02.2020 20:36	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	06.02.2020 20:36	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	06.02.2020 20:36	U	1
Total BTEX		<0.00202	0.00202	mg/kg	06.02.2020 20:36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	06.02.2020 20:36		
1,4-Difluorobenzene	540-36-3	108	%	70-130	06.02.2020 20:36		



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW12** Matrix: Soil Date Received: 06.02.2020 08:15
 Lab Sample Id: 663131-007 Date Collected: 06.01.2020 15:10 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.02.2020 10:43 Basis: Wet Weight
 Seq Number: 3127754

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	324	10.0	mg/kg	06.02.2020 14:06		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.02.2020 11:00 Basis: Wet Weight
 Seq Number: 3127798

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.02.2020 16:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.02.2020 16:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.02.2020 16:11	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	06.02.2020 16:11	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.02.2020 16:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-135	06.02.2020 16:11	
o-Terphenyl	84-15-1	76	%	70-135	06.02.2020 16:11	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW12**
Lab Sample Id: 663131-007

Matrix: Soil
Date Collected: 06.01.2020 15:10

Date Received: 06.02.2020 08:15
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3127759

Prep Method: SW5035A

% Moisture:

Date Prep: 06.02.2020 10:48

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	06.02.2020 20:57	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	06.02.2020 20:57	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	06.02.2020 20:57	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	06.02.2020 20:57	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	06.02.2020 20:57	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	06.02.2020 20:57	U	1
Total BTEX		<0.00198	0.00198	mg/kg	06.02.2020 20:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	06.02.2020 20:57		
1,4-Difluorobenzene	540-36-3	111	%	70-130	06.02.2020 20:57		



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW13** Matrix: Soil Date Received: 06.02.2020 08:15
 Lab Sample Id: 663131-008 Date Collected: 06.01.2020 15:20 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.02.2020 10:43 Basis: Wet Weight
 Seq Number: 3127754

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	291	10.0	mg/kg	06.02.2020 15:11		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.02.2020 11:00 Basis: Wet Weight
 Seq Number: 3127798

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	06.03.2020 09:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	06.03.2020 09:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	06.03.2020 09:51	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	06.03.2020 09:51	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	06.03.2020 09:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.03.2020 09:51	
o-Terphenyl	84-15-1	98	%	70-135	06.03.2020 09:51	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW13**
Lab Sample Id: 663131-008

Matrix: Soil
Date Collected: 06.01.2020 15:20

Date Received: 06.02.2020 08:15
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.02.2020 10:48

Basis: Wet Weight

Seq Number: 3127759

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	06.02.2020 21:17	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	06.02.2020 21:17	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	06.02.2020 21:17	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	06.02.2020 21:17	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	06.02.2020 21:17	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	06.02.2020 21:17	U	1
Total BTEX		<0.00201	0.00201	mg/kg	06.02.2020 21:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	06.02.2020 21:17	
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.02.2020 21:17	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW14** Matrix: Soil Date Received: 06.02.2020 08:15
 Lab Sample Id: 663131-009 Date Collected: 06.01.2020 15:30 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.02.2020 13:46 Basis: Wet Weight
 Seq Number: 3127756

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	120	9.92	mg/kg	06.02.2020 15:31		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.02.2020 11:00 Basis: Wet Weight
 Seq Number: 3127798

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	06.03.2020 10:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	06.03.2020 10:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	06.03.2020 10:11	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	06.03.2020 10:11	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	06.03.2020 10:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	06.03.2020 10:11	
o-Terphenyl	84-15-1	97	%	70-135	06.03.2020 10:11	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW14**
Lab Sample Id: 663131-009

Matrix: Soil
Date Collected: 06.01.2020 15:30

Date Received: 06.02.2020 08:15
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.02.2020 14:51

Basis: Wet Weight

Seq Number: 3127761

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.03.2020 00:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.03.2020 00:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.03.2020 00:21	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.03.2020 00:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.03.2020 00:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.03.2020 00:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.03.2020 00:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	06.03.2020 00:21	
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.03.2020 00:21	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW15** Matrix: Soil Date Received: 06.02.2020 08:15
 Lab Sample Id: 663131-010 Date Collected: 06.01.2020 09:25 Sample Depth: 0 - 4 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 06.02.2020 13:46 Basis: Wet Weight
 Seq Number: 3127756

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	13.1	10.1	mg/kg	06.02.2020 15:50		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 06.02.2020 11:00 Basis: Wet Weight
 Seq Number: 3127798

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	06.03.2020 10:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	06.03.2020 10:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	06.03.2020 10:32	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	06.03.2020 10:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	06.03.2020 10:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	06.03.2020 10:32	
o-Terphenyl	84-15-1	89	%	70-135	06.03.2020 10:32	



Certificate of Analytical Results 663131

LT Environmental, Inc., Arvada, CO

ADU Hondo

Sample Id: **SW15**
Lab Sample Id: 663131-010

Matrix: Soil
Date Collected: 06.01.2020 09:25

Date Received: 06.02.2020 08:15
Sample Depth: 0 - 4 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 06.02.2020 14:51

Basis: Wet Weight

Seq Number: 3127761

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	06.03.2020 00:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	06.03.2020 00:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	06.03.2020 00:41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	06.03.2020 00:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	06.03.2020 00:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	06.03.2020 00:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	06.03.2020 00:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	06.03.2020 00:41	
1,4-Difluorobenzene	540-36-3	110	%	70-130	06.03.2020 00:41	



Flagging Criteria

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

****** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



LT Environmental, Inc.
ADU Hondo

Analytical Method: Chloride by EPA 300

Seq Number: 3127754

MB Sample Id: 7704600-1-BLK

Matrix: Solid

LCS Sample Id: 7704600-1-BKS

Prep Method: E300P

Date Prep: 06.02.2020

LCSD Sample Id: 7704600-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	253	101	253	101	90-110	0	20	mg/kg	06.02.2020 11:18	

Analytical Method: Chloride by EPA 300

Seq Number: 3127756

MB Sample Id: 7704601-1-BLK

Matrix: Solid

LCS Sample Id: 7704601-1-BKS

Prep Method: E300P

Date Prep: 06.02.2020

LCSD Sample Id: 7704601-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	252	101	253	101	90-110	0	20	mg/kg	06.02.2020 14:52	

Analytical Method: Chloride by EPA 300

Seq Number: 3127754

Parent Sample Id: 663128-001

Matrix: Soil

MS Sample Id: 663128-001 S

Prep Method: E300P

Date Prep: 06.02.2020

MSD Sample Id: 663128-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	640	200	821	91	823	91	90-110	0	20	mg/kg	06.02.2020 11:35	

Analytical Method: Chloride by EPA 300

Seq Number: 3127754

Parent Sample Id: 663130-005

Matrix: Soil

MS Sample Id: 663130-005 S

Prep Method: E300P

Date Prep: 06.02.2020

MSD Sample Id: 663130-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2570	201	2780	104	2760	94	90-110	1	20	mg/kg	06.02.2020 12:56	

Analytical Method: Chloride by EPA 300

Seq Number: 3127756

Parent Sample Id: 663131-009

Matrix: Soil

MS Sample Id: 663131-009 S

Prep Method: E300P

Date Prep: 06.02.2020

MSD Sample Id: 663131-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	120	202	301	90	301	90	90-110	0	20	mg/kg	06.02.2020 15:37	

Analytical Method: Chloride by EPA 300

Seq Number: 3127756

Parent Sample Id: 663245-001

Matrix: Soil

MS Sample Id: 663245-001 S

Prep Method: E300P

Date Prep: 06.02.2020

MSD Sample Id: 663245-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	682	200	871	95	870	94	90-110	0	20	mg/kg	06.02.2020 17:44	

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



LT Environmental, Inc.
ADU Hondo

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127798

MB Sample Id: 7704607-1-BLK

Matrix: Solid

LCS Sample Id: 7704607-1-BKS

Prep Method: SW8015P

Date Prep: 06.02.2020

LCSD Sample Id: 7704607-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1000	100	1000	100	70-135	0	35	mg/kg	06.02.2020 10:39	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1040	104	70-135	1	35	mg/kg	06.02.2020 10:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		120		120		70-135	%	06.02.2020 10:39
o-Terphenyl	98		105		103		70-135	%	06.02.2020 10:39

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127798

Matrix: Solid

MB Sample Id: 7704607-1-BLK

Prep Method: SW8015P

Date Prep: 06.02.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	06.02.2020 10:18	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3127798

Matrix: Soil

Parent Sample Id: 663131-001

MS Sample Id: 663131-001 S

Prep Method: SW8015P

Date Prep: 06.02.2020

MSD Sample Id: 663131-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.1	1000	1040	104	979	98	70-135	6	35	mg/kg	06.02.2020 13:46	
Diesel Range Organics (DRO)	250	1000	1260	101	1200	95	70-135	5	35	mg/kg	06.02.2020 13:46	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	119		108		70-135	%	06.02.2020 13:46
o-Terphenyl	93		84		70-135	%	06.02.2020 13:46

Analytical Method: BTEX by EPA 8021B

Seq Number: 3127759

Matrix: Solid

MB Sample Id: 7704602-1-BLK

LCS Sample Id: 7704602-1-BKS

Prep Method: SW5035A

Date Prep: 06.02.2020

LCSD Sample Id: 7704602-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.111	111	0.116	116	70-130	4	35	mg/kg	06.02.2020 12:06	
Toluene	<0.00200	0.100	0.105	105	0.111	111	70-130	6	35	mg/kg	06.02.2020 12:06	
Ethylbenzene	<0.00200	0.100	0.0991	99	0.104	104	71-129	5	35	mg/kg	06.02.2020 12:06	
m,p-Xylenes	<0.00400	0.200	0.204	102	0.213	107	70-135	4	35	mg/kg	06.02.2020 12:06	
o-Xylene	<0.00200	0.100	0.103	103	0.108	108	71-133	5	35	mg/kg	06.02.2020 12:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		107		108		70-130	%	06.02.2020 12:06
4-Bromofluorobenzene	97		96		93		70-130	%	06.02.2020 12:06

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

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

LCS = Laboratory Control Sample
A = Parent Result
C = MS/LCS Result
E = MSD/LCSD Result

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



LT Environmental, Inc.
ADU Hondo

Analytical Method: BTEX by EPA 8021B

Seq Number: 3127761

Matrix: Solid

Prep Method: SW5035A

Date Prep: 06.02.2020

MB Sample Id: 7704604-1-BLK

LCS Sample Id: 7704604-1-BKS

LCSD Sample Id: 7704604-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.108	108	0.104	104	70-130	4	35	mg/kg	06.02.2020 22:39	
Toluene	<0.00200	0.100	0.102	102	0.0989	99	70-130	3	35	mg/kg	06.02.2020 22:39	
Ethylbenzene	<0.00200	0.100	0.0964	96	0.0926	93	71-129	4	35	mg/kg	06.02.2020 22:39	
m,p-Xylenes	<0.00400	0.200	0.196	98	0.190	95	70-135	3	35	mg/kg	06.02.2020 22:39	
o-Xylene	<0.00200	0.100	0.0998	100	0.0972	97	71-133	3	35	mg/kg	06.02.2020 22:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		107		109		70-130	%	06.02.2020 22:39
4-Bromofluorobenzene	97		91		92		70-130	%	06.02.2020 22:39

Analytical Method: BTEX by EPA 8021B

Seq Number: 3127759

Matrix: Soil

Prep Method: SW5035A

Date Prep: 06.02.2020

Parent Sample Id: 663129-001

MS Sample Id: 663129-001 S

MSD Sample Id: 663129-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.110	110	70-130	5	35	mg/kg	06.02.2020 12:47	
Toluene	<0.00200	0.100	0.0998	100	0.105	105	70-130	5	35	mg/kg	06.02.2020 12:47	
Ethylbenzene	<0.00200	0.100	0.0910	91	0.100	100	71-129	9	35	mg/kg	06.02.2020 12:47	
m,p-Xylenes	<0.00400	0.200	0.187	94	0.205	103	70-135	9	35	mg/kg	06.02.2020 12:47	
o-Xylene	<0.00200	0.100	0.0937	94	0.104	104	71-133	10	35	mg/kg	06.02.2020 12:47	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		107		70-130	%	06.02.2020 12:47
4-Bromofluorobenzene	93		92		70-130	%	06.02.2020 12:47

Analytical Method: BTEX by EPA 8021B

Seq Number: 3127761

Matrix: Soil

Prep Method: SW5035A

Date Prep: 06.02.2020

Parent Sample Id: 663131-009

MS Sample Id: 663131-009 S

MSD Sample Id: 663131-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0943	95	0.106	106	70-130	12	35	mg/kg	06.02.2020 23:19	
Toluene	<0.00199	0.0996	0.0845	85	0.101	101	70-130	18	35	mg/kg	06.02.2020 23:19	
Ethylbenzene	<0.00199	0.0996	0.0726	73	0.0944	94	71-129	26	35	mg/kg	06.02.2020 23:19	
m,p-Xylenes	<0.00398	0.199	0.147	74	0.192	96	70-135	27	35	mg/kg	06.02.2020 23:19	
o-Xylene	<0.00199	0.0996	0.0742	74	0.0983	98	71-133	28	35	mg/kg	06.02.2020 23:19	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		107		70-130	%	06.02.2020 23:19
4-Bromofluorobenzene	92		93		70-130	%	06.02.2020 23:19

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

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

LCS = Laboratory Control Sample
 A = Parent Result
 C = MS/LCS Result
 E = MSD/LCSD Result

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



Chain of Custody

Work Order No:

663131

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
 Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

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Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	slc@ltenv.com, dmoir@ltenv.com

Project Name:	ADU Honda	Turn Around	
Project Number:	012920017	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

ANALYSIS REQUEST

Work Order Notes

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
	Received Intact:	Yes	No	Thermometer ID:	TMM007	
	Cooler Custody Seals:	Yes	No	Correction Factor:	-0.2	
	Sample Custody Seals:	Yes	No	Total Containers:	10	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth
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SW06	S	6-1-20	1005	6-4'
SW07		6-1-20	1600	
SW08		6-1-20	955	
SW09		5-28-20	1420	
SW10		5-28-20	1440	
SW11		5-28-20	1505	
SW12		6-1-20	1510	
SW13		6-1-20	1520	
SW14		6-1-20	1530	
SW15		6-1-20	925	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U

Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

Relinquished by: (Signature)

Received by: (Signature)

Date/Time

6/2/20 7:30am

6/2/20 7:30am

6/2/20 08:15

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 06.02.2020 08.15.00 AM

Work Order #: 663131

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated 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

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Elizabeth McClellan

Date: 06.02.2020

Checklist reviewed by:



Jessica Kramer

Date: 06.03.2020

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 31830

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 31830
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	XTO's deferral requests to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first is approved. The deferred C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	7/13/2021