LT Environmental, Inc.
3300 North A Street, Building 1, #103
Midland, Texas 79705
432.704.5178

October 12, 2018

Mr. Mike Bratcher
New Mexico Oil Conservation Division
811 South First Street
Artesia, New Mexico 88210

RE: Request For Closure
WPX Energy, Inc.
Remediation Permit Number 2RP-4984
EP USA #005
Eddy County, New Mexico

Dear Mr. Bratcher:

On behalf of WPX Energy, Inc. (WPX), LT Environmental, Inc. (LTE) is pleased to present the following letter report detailing remediation and soil sampling activities at the EP USA #005 (Site) in Unit N, Section 26, Township 26 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the excavation and soil sampling activities was to address impacts to soil after crude oil and produced water were released from a wellhead. The release was discovered on September 17, 2018. WPX estimated the release volume was approximately 5 barrels (bbls) of produced water and 3 bbls of crude oil. The release affected approximately 3,000 square feet of the well pad surface and approximately 1,100 square feet off of the pad surface to the east of the pad. WPX reported the release to the Bureau of Land Management (BLM) and the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 and was assigned Remediation Permit Number 2RP-4984 (Attachment 1). Based on the initial response efforts and the results of the confirmation soil sampling, WPX is requesting no further action for this release event.

BACKGROUND

The final site characterization occurred after August 14, 2018; therefore, LTE ranked the site according to Table 1, the Closure Criteria for Soils Impacted by a Release, of the New Mexico Administrative Code (NMAC) 19.15.29.12. Depth to groundwater at the Site is estimated to be between 51 feet and 100 feet below ground surface (bgs) based on known aquifer properties and the elevation difference between the Site and Red Bluff Reservoir. The closest surface water to the Site is an unnamed arroyo located approximately 541 feet east northeast of the Site. The Site is greater than 200 feet from any private domestic water source. Water well C01570 is located 1,850 feet northwest of the Site, but no depth to groundwater data is reported. No other permitted water wells within 2 miles of the Site have associated depth to groundwater data. As such, LTE approximated depth to groundwater based on the elevation difference between the

Site and Red Bluff Reservoir. The reservoir is located approximately 0.8 miles south of the Site and is approximately 70.95 feet lower in elevation.

Based on an estimated groundwater depth between 51 feet and 100 feet bgs, the NMOCD Table 1 closure criteria specifies that the Site will adhere to the following concentration limits for closure: 10,000 milligrams per kilogram (mg/kg) chloride; 2,500 mg/kg total petroleum hydrocarbons (TPH); 1,000 mg/kg total sum of TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO); 50 mg/kg benzene, toluene, ethylbenzene, and total xylenes (BTEX); and 10 mg/kg benzene.

EXCAVATION ACTIVITIES

On September 24, 2018, LTE was on site to inspect the release area. To delineate hydrocarbon and chloride impacts to soil and direct excavation activities, LTE screened soil samples using a photo-ionization detector (PID) and Hach® chloride QuanTab® test strips. Based on field screening, it was determined that remediation via excavation of the off-pad release area was necessary.

On September 25 and 26, 2018, LTE was on site with Kelley Oilfield Services, Inc. to excavate impacted soil as identified via field screening observations. The final excavation extent was approximately 1,100 square feet in area and extended to 4 feet bgs. The lateral extent of the remediation footprint was approximately 50 feet by 22 feet and is illustrated on Figure 2. Approximately 132 cubic yards of impacted soil were removed using a backhoe. Impacted soil was transported and properly disposed of at the R360 Red Bluff Landfill Facility located in Orla, Texas. Photographs of the release before and during the excavation are included as Attachment 1.

SOIL SAMPLING

Following the removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavation to document removal of impacted soil. Seven composite soil samples (FS01, FS02, FS03, FS04, SW01, SW02, and SW03) were collected at depths ranging from 2 feet to 4 feet bgs. Additionally, six discrete soil samples were collected from the release footprint on the well pad surface. Well pad surface soil samples were collected from three locations (SS01, SS02, and SS03) at depths of 0.5 feet and 1 foot bgs at each location. Soil sample locations are depicted on Figure 2.

Soil samples were placed directly into pre-cleaned glass jars, labeled with location, date, time, sampler, and method of analysis and immediately placed on ice. The samples were shipped at 4 degrees Celsius (°C) to Xenco Laboratories in Midland, Texas, under strict chain-of-custody procedures for analysis of BTEX by United States Environmental Protection Agency (EPA) Method 8021B, TPH-GRO, TPH-DRO, and TPH-motor oil range organics (MRO) by EPA Method 8015M, and chloride by EPA Method 300.0.

ANALYTICAL RESULTS

Laboratory analytical results indicated BTEX and TPH concentrations were either below the laboratory detection limit or compliant with NMOCD Table 1 closure criteria in all soil samples. Chloride concentrations ranged from 366 mg/kg in soil sample SW01 to 4,950 mg/kg in soil sample SS02 at 0.5 feet bgs. TPH concentrations ranged from 75.5 mg/kg in soil sample SS02 at 0.5 feet bgs to 729 mg/kg in soil sample SS02 at 1 foot bgs. Laboratory analytical results are presented on Figure 2 and summarized in Table 1. Complete laboratory analytical reports are included as Attachment 2.

CONCLUSIONS

Approximately 132 cubic yards of impacted soil were excavated from the release footprint, and laboratory analytical results of seven confirmation soil samples indicated compliance with NMOCD Table 1 closure criteria. Following the receipt of soil sample laboratory analytical results, the excavation area was backfilled with clean imported fill material to match the pre-existing grade. Based on the data collected, WPX is requesting closure of NMOCD Remediation Permit Number 2RP-4984 per New Mexico Administrative Code (NMAC) rule 19.15.29.12 Amended August 2018.

If you have any questions or comments, please do not hesitate to contact Daniel Burns at (701) 570-4727or dburns@ltenv.com.

Sincerely,
LT ENVIRONMENTAL, INC.

Daniel Burns
Project Geologist

Ashley L. Ager, M.S., P.G.
Senior Geologist

cc: Maria Pruett, NMOCD
Shelly Tucker, BLM
Jim Amos, BLM
Jim Raley, WPX

Attachments:

Figure 1	Site Location Map
Figure 2	Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Initial/Final NMOCD Form C-141
Attachment 2	Photographic Log
Attachment 3	Laboratory Analytical Reports

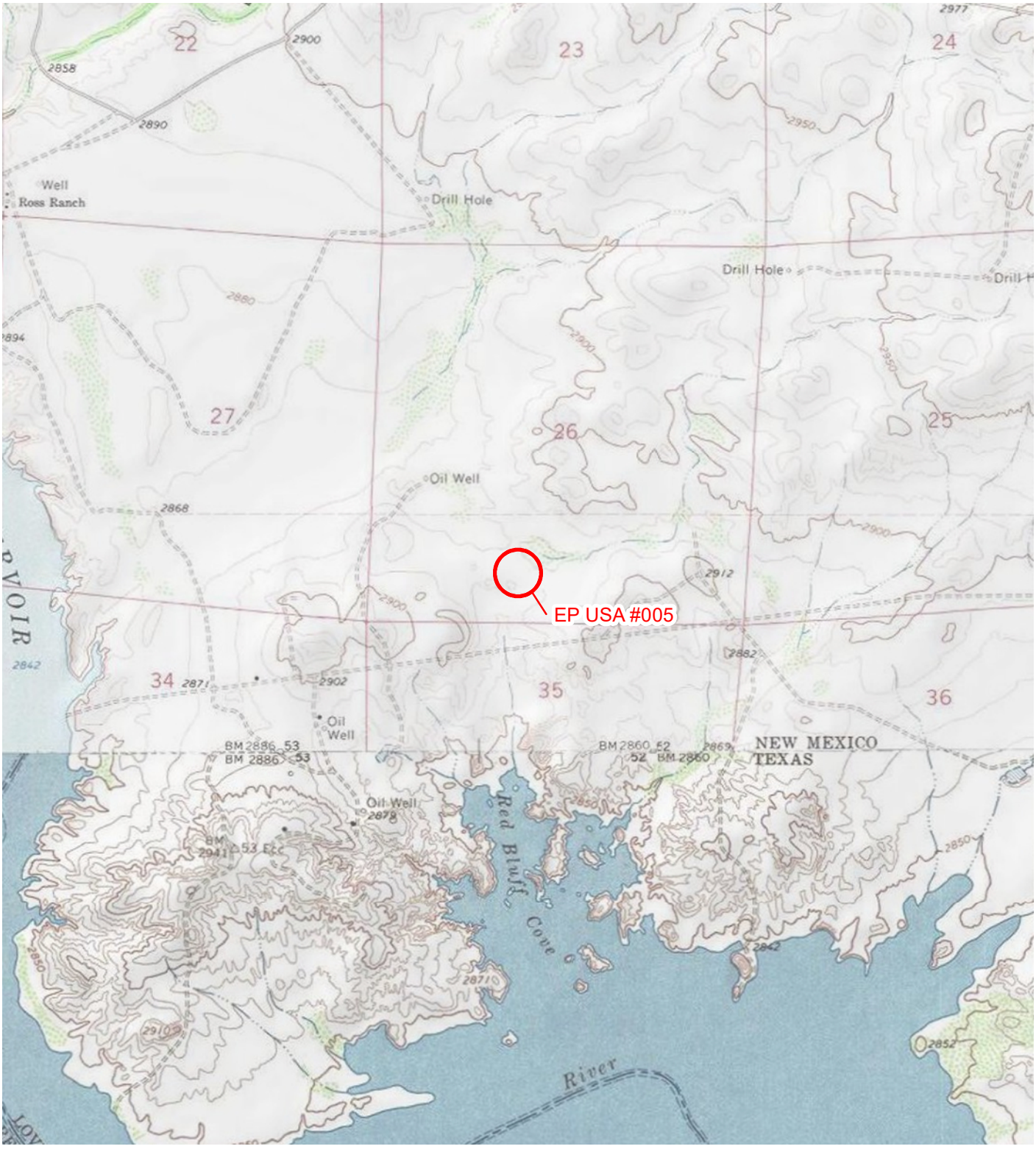

IMAGE COURTESY OF ESRI/USGS

LEGEND

SITE LOCATION

0 2,000 4,000

Feet

N

NEW MEXICO

NOTE: REMEDIATION PERMIT NUMBER 2RP-4984

FIGURE 1
SITE LOCATION MAP
EP USA #005
UNIT N SEC 26 T26S R29E
EDDY COUNTY, NEW MEXICO
WPX ENERGY, INC.

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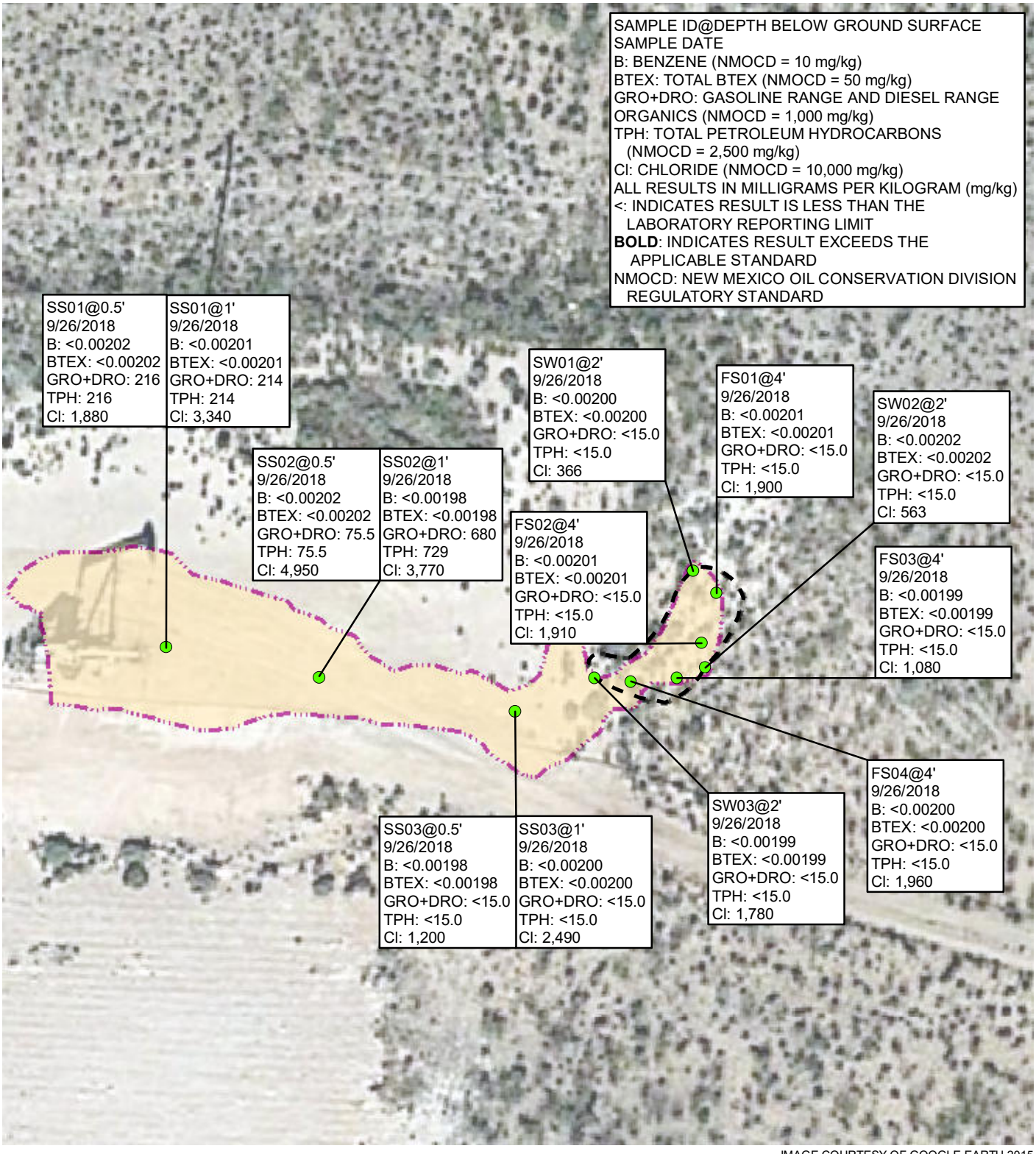

IMAGE COURTESY OF GOOGLE EARTH 2015

LEGEND

- FINAL CONFIRMATION SOIL SAMPLE
- EXCAVATION EXTENT
- RELEASE EXTENT MAPPED BY WPX ON 09-2018

0 40 80
Feet

N

NOTE: REMEDIATION PERMIT NUMBER 2RP-4984

FIGURE 2
SOIL SAMPLE LOCATIONS
EP USA #005
UNIT N SEC 26 T26S R29E
EDDY COUNTY, NEW MEXICO
WPX ENERGY, INC.

P:\WPX\GIS\MXD\034818008_EP USA 005\034818008_FIG02_SITE_4984.mxd

TABLE 1
SOIL ANALYTICAL RESULTS

EP USA #005
REMEDIATION PERMIT NUMBER 2RP-4984
EDDY COUNTY, NEW MEXICO
WPX ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	Sum of GRO + DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
Off-pad Excavation Confirmation Closure Samples													
SW01	2	9/26/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	366
SW02	2	9/26/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	<15.0	<15.0	<15.0	<15.0	563
SW03	2	9/26/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	1,780
FS01	4	9/26/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	1,900
FS02	4	9/26/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<15.0	<15.0	<15.0	<15.0	<15.0	1,910
FS03	4	9/26/2018	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<15.0	<15.0	<15.0	<15.0	<15.0	1,080
FS04	4	9/26/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	1,960
On-pad Site Characterization Confirmation Samples													
SS01	0.5	9/26/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	216	<15.0	216	216	1,880
SS01	1	9/26/2018	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<14.9	214	<14.9	214	214	3,340
SS02	0.5	9/26/2018	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<15.0	75.5	<15.0	75.5	75.5	4,950
SS02	1	9/26/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	680	49.3	680	729	3,770
SS03	0.5	9/26/2018	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<15.0	<15.0	<15.0	<15.0	<15.0	1,200
SS03	1	9/26/2018	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<15.0	<15.0	<15.0	<15.0	<15.0	2,490
NMOCD Table 1 Limit			**10**	NE	NE	NE	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**

Notes:

bgs - below ground surface

BTEX - benzene, toluene, ethylbenzene, and total xylenes

DRO - diesel range organics

GRO - gasoline range organics

mg/kg - milligrams per kilogram

MRO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NE - not established

Table 1 - Closure Criteria for Soils Impacted by a Release per 19.15.29 August 2018

TPH - total petroleum hydrocarbons

< - indicates result is below laboratory detection limit

Bold indicates result exceeds the applicable regulatory standard.

ATTACHMENT 1: INITIAL/FINAL NMOCD 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	NMAP1826970471
District RP	2RP-4984
Facility ID	N/A
Application ID	pMAP1826970173

Release Notification

Responsible Party

Responsible Party: **WPX Energy/ RKI**	OGRID: **246289**
Contact Name: **Jim Raley**	Contact Telephone: **575-689-7597**
Contact email: **james.raley@wpxenergy.com**	Incident # *(assigned by OCD)* NMAP1826970471
Contact mailing address: **5315 Buena Vista Dr., Carlsbad, NM 88220**	

Location of Release Source

Latitude: **32.0069847** Longitude: **-103.9574661**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: **EP USA #005**	Site Type: **Oil**
Date Release Discovered: **9/17/2018**	API#: **30-015-25020**

Unit Letter	Section	Township	Range	County
N	**26**	**26S**	**29E**	**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) **3**	Volume Recovered (bbls) **0**
☒ Produced Water	Volume Released (bbls) **5**	Volume Recovered (bbls) **0**
	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
Interior corrosion on 1" nipple located on wellhead allowed small hole to develop. This allowed fluids to escape to pad surface. Small area off pad was also impacted approx 50' on east side of well pad. BLM permission granted to excavate impacted area off-site.

State of New Mexico
Oil Conservation Division

Incident ID	NMAP1826970471
District RP	2RP-4984
Facility ID	N/A
Application ID	pMAP1826970173

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?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

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 not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: **Jim Raley** Title: **Environmental Specialist**

Signature:  Date: **9/25/2018**

email: james.raley@wpxenergy.com Telephone: **575-689-7597**

OCD Only

Received by:  Date: 09/26/18

State of New Mexico
Oil Conservation Division

Incident ID	**NMAP1826970471**
District RP	**2RP-4984**
Facility ID	**N/A**
Application ID	**pMAP1826970173**

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?	**51-100** (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

Incident ID	**NMAP1826970471**
District RP	**2RP-4984**
Facility ID	**N/A**
Application ID	**pMAP1826970173**

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: **Jim Raley** Title: **Environmental Specialist**

Signature: _____ Date: **10/18/18**

email: **James.Raley@wpxenergy.com** Telephone: **575-689-7597**

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	**NMAP1826970471**
District RP	**2RP-4984**
Facility ID	**N/A**
Application ID	**pMAP1826970173**

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: **Jim Raley** Title: **Environmental Specialist**

Signature: _____ Date: **10/18/18**

email: **James.Raley@wpxenergy.com** Telephone: **575-689-7597**

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

Release footprint on pad surface before excavation– view east toward pasture excavation.

Project: 034818008	WPX Energy, Inc. EP USA #005	LTE Advancing Opportunity
September 24, 2018	Photographic Log	

Release footprint on pad surface before excavation – view northwest

Project: 034818008	WPX Energy, Inc. EP USA #005	LTE Advancing Opportunity
September 24, 2018	Photographic Log	

Release footprint on pad surface after excavation – view west

Project: 034818008	WPX Energy, Inc. EP USA #005	LTE Advancing Opportunity
September 26, 2018	Photographic Log	

Excavation area in pasture – view north

Project: 034818008	WPX Energy, Inc. EP USA #005	LTE Advancing Opportunity
September 26, 2018	Photographic Log	

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

Analytical Report 600488

for

LT Environmental, Inc.

Project Manager: Adrian Baker

EP USA 005

04-OCT-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

04-OCT-18

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

Reference: XENCO Report No(s): **600488**
EP USA 005
Project Address: Eddy,NM

Adrian Baker:

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) 600488. 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. 600488 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Sample Cross Reference 600488

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	09-26-18 12:30	6 In	600488-001
SS01	S	09-26-18 12:35	1 ft	600488-002
SS02	S	09-26-18 12:40	6 In	600488-003
SS02	S	09-26-18 12:45	1 ft	600488-004
SS03	S	09-26-18 12:50	6 In	600488-005
SS03	S	09-26-18 12:55	1 ft	600488-006

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3064901 Inorganic Anions by EPA 300
Lab Sample ID 600661-012 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 600488-003, -004, -005, -006.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3065219 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 600488

LT Environmental, Inc., Arvada, CO

Project Name: EP USA 005

Project Id:

Contact: Adrian Baker

Project Location: Eddy,NM

Date Received in Lab: Thu Sep-27-18 10:34 am

Report Date: 04-OCT-18

Project Manager: Jessica Kramer

Analysis Requested		600488-001		600488-002		600488-003		600488-004		600488-005		600488-006	
	Field Id:	SS01		SS01		SS02		SS02		SS03		SS03	
	Depth:	6- In		1- ft		6- In		1- ft		6- In		1- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-26-18 12:30		Sep-26-18 12:35		Sep-26-18 12:40		Sep-26-18 12:45		Sep-26-18 12:50		Sep-26-18 12:55	
BTEX by EPA 8021B	***Extracted:***	Oct-03-18 08:00		Oct-03-18 08:00		Oct-03-18 08:00		Oct-03-18 08:00		Oct-03-18 08:00		Oct-03-18 08:00	
	Analyzed:	Oct-03-18 15:38		Oct-03-18 16:13		Oct-03-18 16:34		Oct-03-18 16:55		Oct-03-18 17:16		Oct-03-18 17:38	
	Units/RL:	mg/kg	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	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200
Toluene		<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200
Ethylbenzene		<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200
m,p-Xylenes		<0.00404	0.00404	<0.00402	0.00402	<0.00403	0.00403	<0.00397	0.00397	<0.00396	0.00396	<0.00401	0.00401
o-Xylene		<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200
Total Xylenes		<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200
Total BTEX		<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202	<0.00198	0.00198	<0.00198	0.00198	<0.00200	0.00200
Inorganic Anions by EPA 300	***Extracted:***	Sep-27-18 16:30		Sep-27-18 16:30		Oct-01-18 09:15		Oct-01-18 09:15		Oct-01-18 09:15		Oct-01-18 09:15	
	Analyzed:	Sep-28-18 11:57		Sep-28-18 12:03		Oct-01-18 10:47		Oct-01-18 10:52		Oct-01-18 11:44		Oct-01-18 10:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1880	25.0	3340	25.0	4950	49.6	3770	24.8	1200	5.05	2490	25.2
TPH by SW8015 Mod	***Extracted:***	Sep-28-18 16:00		Sep-28-18 16:00		Sep-28-18 16:00		Sep-28-18 16:00		Sep-28-18 16:00		Sep-28-18 16:00	
	Analyzed:	Sep-28-18 23:36		Sep-29-18 00:34		Sep-29-18 00:53		Sep-29-18 01:12		Sep-29-18 01:31		Sep-29-18 01:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		216	15.0	214	14.9	75.5	15.0	680	15.0	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<14.9	14.9	<15.0	15.0	49.3	15.0	<15.0	15.0	<15.0	15.0
Total TPH		216	15.0	214	14.9	75.5	15.0	729	15.0	<15.0	15.0	<15.0	15.0

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EP USA 005

Sample Id: **SS01** Matrix: Soil Date Received:09.27.18 10.34
Lab Sample Id: 600488-001 Date Collected: 09.26.18 12.30 Sample Depth: 6 In

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: SCM % Moisture:
Analyst: CHE Date Prep: 09.27.18 16.30 Basis: Wet Weight
Seq Number: 3064713

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1880**	25.0	mg/kg	09.28.18 11.57		5

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 09.28.18 16.00 Basis: Wet Weight
Seq Number: 3064912

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.28.18 23.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	**216**	15.0	mg/kg	09.28.18 23.36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.28.18 23.36	U	1
Total TPH	PHC635	**216**	15.0	mg/kg	09.28.18 23.36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	09.28.18 23.36	
o-Terphenyl	84-15-1	102	%	70-135	09.28.18 23.36	

Certificate of Analytical Results 600488

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600488-001	Date Collected:	09.26.18 12.30	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.03.18 08.00	Basis:	Wet Weight
Seq Number:	3065219				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.03.18 15.38	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.03.18 15.38	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.03.18 15.38	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.03.18 15.38	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.03.18 15.38	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.03.18 15.38	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.03.18 15.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	10.03.18 15.38	
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.03.18 15.38	

Certificate of Analytical Results 600488

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600488-002	Date Collected:	09.26.18 12.35	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	CHE	Date Prep:	09.27.18 16.30	Basis:	Wet Weight
Seq Number:	3064713				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3340**	25.0	mg/kg	09.28.18 12.03		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.28.18 16.00	Basis:	Wet Weight
Seq Number:	3064912				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<14.9	14.9	mg/kg	09.29.18 00.34	U	1
Diesel Range Organics (DRO)	C10C28DRO	**214**	14.9	mg/kg	09.29.18 00.34		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<14.9	14.9	mg/kg	09.29.18 00.34	U	1
Total TPH	PHC635	**214**	14.9	mg/kg	09.29.18 00.34		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	09.29.18 00.34	
o-Terphenyl	84-15-1	108	%	70-135	09.29.18 00.34	

Certificate of Analytical Results 600488

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600488-002	Date Collected:	09.26.18 12.35	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.03.18 08.00	Basis:	Wet Weight
Seq Number:	3065219				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.03.18 16.13	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.03.18 16.13	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.03.18 16.13	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.03.18 16.13	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.03.18 16.13	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.03.18 16.13	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.03.18 16.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.03.18 16.13	
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.03.18 16.13	

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EP USA 005

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600488-003	Date Collected:	09.26.18 12.40	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.18 09.15	Basis:	Wet Weight
Seq Number:	3064901				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4950**	49.6	mg/kg	10.01.18 10.47		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.28.18 16.00	Basis:	Wet Weight
Seq Number:	3064912				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.18 00.53	U	1
Diesel Range Organics (DRO)	C10C28DRO	**75.5**	15.0	mg/kg	09.29.18 00.53		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.29.18 00.53	U	1
Total TPH	PHC635	**75.5**	15.0	mg/kg	09.29.18 00.53		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	09.29.18 00.53	
o-Terphenyl	84-15-1	95	%	70-135	09.29.18 00.53	

Certificate of Analytical Results 600488

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600488-003	Date Collected:	09.26.18 12.40	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.03.18 08.00	Basis:	Wet Weight
Seq Number:	3065219				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.03.18 16.34	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.03.18 16.34	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.03.18 16.34	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	10.03.18 16.34	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.03.18 16.34	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.03.18 16.34	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.03.18 16.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	10.03.18 16.34	
1,4-Difluorobenzene	540-36-3	93	%	70-130	10.03.18 16.34	

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600488-004	Date Collected:	09.26.18 12.45	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.18 09.15	Basis:	Wet Weight
Seq Number:	3064901				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3770**	24.8	mg/kg	10.01.18 10.52		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.28.18 16.00	Basis:	Wet Weight
Seq Number:	3064912				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.18 01.12	U	1
Diesel Range Organics (DRO)	C10C28DRO	**680**	15.0	mg/kg	09.29.18 01.12		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**49.3**	15.0	mg/kg	09.29.18 01.12		1
Total TPH	PHC635	**729**	15.0	mg/kg	09.29.18 01.12		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	09.29.18 01.12	
o-Terphenyl	84-15-1	107	%	70-135	09.29.18 01.12	

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LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600488-004	Date Collected:	09.26.18 12.45	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.03.18 08.00	Basis:	Wet Weight
Seq Number:	3065219				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.03.18 16.55	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.03.18 16.55	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.03.18 16.55	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	10.03.18 16.55	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.03.18 16.55	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.03.18 16.55	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.03.18 16.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	10.03.18 16.55	
4-Bromofluorobenzene	460-00-4	90	%	70-130	10.03.18 16.55	

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LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600488-005	Date Collected:	09.26.18 12.50	Sample Depth:	6 In

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.18 09.15	Basis:	Wet Weight
Seq Number:	3064901				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1200**	5.05	mg/kg	10.01.18 11.44		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.28.18 16.00	Basis:	Wet Weight
Seq Number:	3064912				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.18 01.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.18 01.31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.29.18 01.31	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.18 01.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	09.29.18 01.31	
o-Terphenyl	84-15-1	93	%	70-135	09.29.18 01.31	

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LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600488-005	Date Collected:	09.26.18 12.50	Sample Depth:	6 In
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.03.18 08.00	Basis:	Wet Weight
Seq Number:	3065219				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	10.03.18 17.16	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	10.03.18 17.16	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	10.03.18 17.16	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	10.03.18 17.16	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	10.03.18 17.16	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	10.03.18 17.16	U	1
Total BTEX		<0.00198	0.00198	mg/kg	10.03.18 17.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.03.18 17.16	
4-Bromofluorobenzene	460-00-4	97	%	70-130	10.03.18 17.16	

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LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600488-006	Date Collected:	09.26.18 12.55	Sample Depth:	1 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.18 09.15	Basis:	Wet Weight
Seq Number:	3064901				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2490**	25.2	mg/kg	10.01.18 10.58		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.28.18 16.00	Basis:	Wet Weight
Seq Number:	3064912				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.18 01.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.18 01.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.29.18 01.51	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.18 01.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	09.29.18 01.51	
o-Terphenyl	84-15-1	92	%	70-135	09.29.18 01.51	

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LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600488-006	Date Collected:	09.26.18 12.55	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.03.18 08.00	Basis:	Wet Weight
Seq Number:	3065219				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.03.18 17.38	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.03.18 17.38	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.03.18 17.38	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	10.03.18 17.38	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.03.18 17.38	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.03.18 17.38	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.03.18 17.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	10.03.18 17.38	
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.03.18 17.38	

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.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 600488

LT Environmental, Inc.

EP USA 005

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3064713 Matrix: Solid Date Prep: 09.27.18
MB Sample Id: 7663129-1-BLK LCS Sample Id: 7663129-1-BKS LCSD Sample Id: 7663129-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	255	102	256	102	90-110	0	20	mg/kg	09.28.18 09:24	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3064901 Matrix: Solid Date Prep: 10.01.18
MB Sample Id: 7663267-1-BLK LCS Sample Id: 7663267-1-BKS LCSD Sample Id: 7663267-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.99	250	258	103	259	104	90-110	0	20	mg/kg	10.01.18 10:13	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3064713 Matrix: Soil Date Prep: 09.27.18
Parent Sample Id: 600460-001 MS Sample Id: 600460-001 S MSD Sample Id: 600460-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.850	248	262	106	261	105	90-110	0	20	mg/kg	09.28.18 09:41	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3064713 Matrix: Soil Date Prep: 09.27.18
Parent Sample Id: 600490-001 MS Sample Id: 600490-001 S MSD Sample Id: 600490-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	455	253	704	98	704	98	90-110	0	20	mg/kg	09.28.18 11:00	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3064901 Matrix: Soil Date Prep: 10.01.18
Parent Sample Id: 600488-005 MS Sample Id: 600488-005 S MSD Sample Id: 600488-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1200	253	1400	79	1400	79	90-110	0	20	mg/kg	10.01.18 11:49	X

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

QC Summary 600488

LT Environmental, Inc.

EP USA 005

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

Seq Number: 3064901 Matrix: Soil Date Prep: 10.01.18

Parent Sample Id: 600661-012 MS Sample Id: 600661-012 S MSD Sample Id: 600661-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	247	99	248	99	90-110	0	20	mg/kg	10.01.18 10:30	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P

Seq Number: 3064912 Matrix: Solid Date Prep: 09.28.18

MB Sample Id: 7663248-1-BLK LCS Sample Id: 7663248-1-BKS LCSD Sample Id: 7663248-1-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)	<8.00	1000	987	99	1080	108	70-135	9	20	mg/kg	09.28.18 19:29	
Diesel Range Organics (DRO)	<8.13	1000	1000	100	1080	108	70-135	8	20	mg/kg	09.28.18 19:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		120		125		70-135	%	09.28.18 19:29
o-Terphenyl	100		114		115		70-135	%	09.28.18 19:29

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P

Seq Number: 3064912 Matrix: Soil Date Prep: 09.28.18

Parent Sample Id: 600266-005 MS Sample Id: 600266-005 S MSD Sample Id: 600266-005 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)	<7.99	999	965	97	981	98	70-135	2	20	mg/kg	09.28.18 20:26	
Diesel Range Organics (DRO)	<8.12	999	987	99	1010	101	70-135	2	20	mg/kg	09.28.18 20:26	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		116		70-135	%	09.28.18 20:26
o-Terphenyl	102		104		70-135	%	09.28.18 20:26

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 600488

LT Environmental, Inc.

EP USA 005

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

Seq Number: 3065219 Matrix: Solid Date Prep: 10.03.18

MB Sample Id: 7663470-1-BLK LCS Sample Id: 7663470-1-BKS LCSD Sample Id: 7663470-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.105	105	0.101	100	70-130	4	35	mg/kg	10.03.18 08:13	
Toluene	<0.00201	0.100	0.0967	97	0.0954	94	70-130	1	35	mg/kg	10.03.18 08:13	
Ethylbenzene	<0.00201	0.100	0.110	110	0.106	105	70-130	4	35	mg/kg	10.03.18 08:13	
m,p-Xylenes	<0.00402	0.201	0.219	109	0.211	104	70-130	4	35	mg/kg	10.03.18 08:13	
o-Xylene	<0.00201	0.100	0.109	109	0.106	105	70-130	3	35	mg/kg	10.03.18 08:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		114		96		70-130	%	10.03.18 08:13
4-Bromofluorobenzene	76		100		97		70-130	%	10.03.18 08:13

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

Seq Number: 3065219 Matrix: Soil Date Prep: 10.03.18

Parent Sample Id: 600489-004 MS Sample Id: 600489-004 S MSD Sample Id: 600489-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0742	73	0.0242	24	70-130	102	35	mg/kg	10.03.18 14:13	XF
Toluene	<0.00201	0.101	0.0664	66	0.0220	22	70-130	100	35	mg/kg	10.03.18 14:13	XF
Ethylbenzene	<0.00201	0.101	0.0744	74	0.0218	22	70-130	109	35	mg/kg	10.03.18 14:13	XF
m,p-Xylenes	<0.00102	0.201	0.148	74	0.0412	21	70-130	113	35	mg/kg	10.03.18 14:13	XF
o-Xylene	<0.00201	0.101	0.0750	74	0.0211	21	70-130	112	35	mg/kg	10.03.18 14:13	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	84		94		70-130	%	10.03.18 14:13
4-Bromofluorobenzene	107		82		70-130	%	10.03.18 14:13

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

CHAIN OF CUSTODY

Page 1 Of 1

XENCO LABORATORIES

Setting the Standard since 1990

Stafford, Texas (281-240-4200)
Dallas Texas (214-902-0300)
San Antonio, Texas (210-509-3334)
Midland, Texas (432-704-5251)
Phoenix, Arizona (480-355-0900)
www.xenco.com

Xenco Quote #: | Xenco Job #: 460488

Client / Reporting Information

Company Name / Branch: CT Environmental, Inc. Permian Office
Company Address: 3300 N "A" St. Building 1 Unit 103 Midland, TX 79705
Email: abaker@ctenv.com Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name: Adrian Baker

Project Information

Project Name/Number: EP USA 005
Project Location: EDDY, NM
Invoice To: CT Environmental, Inc - Adrian Baker
PO Number: 034818008

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Analytical Information: BTEX (only BTEX) 8021	TPH (DRO GRO MRO) 8015	Chloride (300.0)	Field Comments
1	SS01	6"	09/26	12:30	S	1								X	X	X	X	
2	SS01	1'		12:35	S	1								X	X	X	X	
3	SS02	6"		12:40	S	1								X	X	X	X	
4	SS02	1'		12:45	S	1								X	X	X	X	
5	SS03	6"		12:50	S	1								X	X	X	X	
6	SS03	1'		12:55	S	1								X	X	X	X	
7																		
8																		
9																		
10																		

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [X] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking # 773334069590

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		09/27/18 15:00				
2					9-27-18 10:34	
3	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
4						
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable	On Ice: X

Cooler Temp. 0.3 | Thermo. Corr. Factor 1.0

Notice: 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

Final 1.000

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 09/27/2018 10:34:00 AM

Work Order #: 600488

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

Temperature Measuring device used : R8

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.3	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received on ice?	**No**	
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**	
#5 Custody Seals intact on sample bottles?	**N/A**	
#6*Custody Seals Signed and dated?	**N/A**	
#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**	TPH received in bulk container
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**No**	
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 09/27/2018
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 09/28/2018
Jessica Kramer

Analytical Report 600489

for

LT Environmental, Inc.

Project Manager: Adrian Baker

EP USA 005

03-OCT-18

Collected By: Client

1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-27), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-18-17), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

03-OCT-18

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

Reference: XENCO Report No(s): **600489**
EP USA 005
Project Address: Eddy, NM

Adrian Baker:

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) 600489. 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. 600489 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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

Sample Cross Reference 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SW01	S	09-26-18 11:05	2 ft	600489-001
SW02	S	09-26-18 11:10	2 ft	600489-002
SW03	S	09-26-18 11:15	2 ft	600489-003
FS01	S	09-26-18 11:45	4 ft	600489-004
FS02	S	09-26-18 11:50	4 ft	600489-005
FS03	S	09-26-18 11:55	4 ft	600489-006
FS04	S	09-26-18 12:00	4 ft	600489-007

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3065147 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3065219 BTEX by EPA 8021B
Lab Sample ID 600489-004 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene, Ethylbenzene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 600489-003, -004, -005, -006, -007.
The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene Relative Percent Difference (RPD) between matrix spike and duplicate were above quality control limits.
Samples in the analytical batch are: 600489-003, -004, -005, -006, -007

Certificate of Analysis Summary 600489

LT Environmental, Inc., Arvada, CO

Project Name: EP USA 005

Project Id:
Contact: Adrian Baker
Project Location: Eddy, NM

Date Received in Lab: Thu Sep-27-18 10:34 am
Report Date: 03-OCT-18
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	600489-001		600489-002		600489-003		600489-004		600489-005		600489-006	
	Field Id:	SW01		SW02		SW03		FS01		FS02		FS03	
	Depth:	2- ft		2- ft		2- ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-26-18 11:05		Sep-26-18 11:10		Sep-26-18 11:15		Sep-26-18 11:45		Sep-26-18 11:50		Sep-26-18 11:55	
BTEX by EPA 8021B	***Extracted:***	Oct-02-18 15:00		Oct-02-18 15:00		Oct-03-18 08:00		Oct-03-18 08:00		Oct-03-18 08:00		Oct-03-18 08:00	
	Analyzed:	Oct-03-18 01:08		Oct-03-18 01:29		Oct-03-18 13:09		Oct-03-18 10:19		Oct-03-18 13:30		Oct-03-18 13:51	
	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	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
Toluene		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
Ethylbenzene		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
m,p-Xylenes		<0.00399	0.00399	<0.00404	0.00404	<0.00398	0.00398	<0.00402	0.00402	<0.00402	0.00402	<0.00398	0.00398
o-Xylene		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
Total Xylenes		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
Total BTEX		<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199	<0.00201	0.00201	<0.00201	0.00201	<0.00199	0.00199
Inorganic Anions by EPA 300	***Extracted:***	Oct-01-18 09:15		Oct-01-18 09:15		Oct-01-18 09:15		Oct-01-18 09:15		Oct-01-18 09:15		Oct-01-18 09:15	
	Analyzed:	Oct-01-18 11:15		Oct-01-18 11:21		Oct-01-18 11:26		Oct-01-18 11:32		Oct-01-18 11:38		Oct-01-18 12:01	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		366	50.1	563	4.97	1780	25.0	1900	49.5	1910	50.5	1080	49.5
TPH by SW8015 Mod	***Extracted:***	Sep-28-18 16:00		Sep-28-18 16:00		Sep-28-18 16:00		Sep-28-18 16:00		Sep-28-18 16:00		Sep-28-18 17:00	
	Analyzed:	Sep-29-18 02:10		Sep-29-18 02:29		Sep-29-18 02:48		Sep-29-18 03:08		Sep-29-18 03:27		Sep-29-18 09:36	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Diesel Range Organics (DRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Motor Oil Range Hydrocarbons (MRO)		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0
Total TPH		<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0	<15.0	15.0

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 600489

LT Environmental, Inc., Arvada, CO

Project Name: EP USA 005

Project Id:
Contact: Adrian Baker
Project Location: Eddy, NM

Date Received in Lab: Thu Sep-27-18 10:34 am
Report Date: 03-OCT-18
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	600489-007					
	Field Id:	FS04					
	Depth:	4- ft					
	Matrix:	SOIL					
	Sampled:	Sep-26-18 12:00					
BTEX by EPA 8021B	***Extracted:***	Oct-03-18 08:00					
	Analyzed:	Oct-03-18 15:18					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00399 0.00399					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Inorganic Anions by EPA 300	***Extracted:***	Oct-01-18 09:15					
	Analyzed:	Oct-01-18 12:06					
	Units/RL:	mg/kg RL					
Chloride		1960 101					
TPH by SW8015 Mod	***Extracted:***	Sep-28-18 17:00					
	Analyzed:	Sep-29-18 10:33					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<15.0 15.0					
Diesel Range Organics (DRO)		<15.0 15.0					
Motor Oil Range Hydrocarbons (MRO)		<15.0 15.0					
Total TPH		<15.0 15.0					

Jessica Kramer
Project Assistant

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-001	Date Collected:	09.26.18 11.05	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.18 09.15	Basis:	Wet Weight
Seq Number:	3064901				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**366**	50.1	mg/kg	10.01.18 11.15		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.28.18 16.00	Basis:	Wet Weight
Seq Number:	3064912				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.18 02.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.18 02.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.29.18 02.10	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.18 02.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	09.29.18 02.10	
o-Terphenyl	84-15-1	92	%	70-135	09.29.18 02.10	

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-001	Date Collected:	09.26.18 11.05	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.02.18 15.00	Basis:	Wet Weight
Seq Number:	3065147				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.03.18 01.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.03.18 01.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.03.18 01.08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.03.18 01.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.03.18 01.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.03.18 01.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.03.18 01.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.03.18 01.08	
4-Bromofluorobenzene	460-00-4	99	%	70-130	10.03.18 01.08	

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-002	Date Collected:	09.26.18 11.10	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.18 09.15	Basis:	Wet Weight
Seq Number:	3064901				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**563**	4.97	mg/kg	10.01.18 11.21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.28.18 16.00	Basis:	Wet Weight
Seq Number:	3064912				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.18 02.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.18 02.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.29.18 02.29	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.18 02.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	09.29.18 02.29	
o-Terphenyl	84-15-1	86	%	70-135	09.29.18 02.29	

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-002	Date Collected:	09.26.18 11.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.02.18 15.00	Basis:	Wet Weight
Seq Number:	3065147				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	10.03.18 01.29	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	10.03.18 01.29	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	10.03.18 01.29	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	10.03.18 01.29	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	10.03.18 01.29	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	10.03.18 01.29	U	1
Total BTEX		<0.00202	0.00202	mg/kg	10.03.18 01.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	10.03.18 01.29	
4-Bromofluorobenzene	460-00-4	97	%	70-130	10.03.18 01.29	

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-003	Date Collected:	09.26.18 11.15	Sample Depth:	2 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.18 09.15	Basis:	Wet Weight
Seq Number:	3064901				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1780**	25.0	mg/kg	10.01.18 11.26		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.28.18 16.00	Basis:	Wet Weight
Seq Number:	3064912				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.18 02.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.18 02.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.29.18 02.48	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.18 02.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	09.29.18 02.48	
o-Terphenyl	84-15-1	92	%	70-135	09.29.18 02.48	

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-003	Date Collected:	09.26.18 11.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.03.18 08.00	Basis:	Wet Weight
Seq Number:	3065219				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.03.18 13.09	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.03.18 13.09	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.03.18 13.09	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.03.18 13.09	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.03.18 13.09	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.03.18 13.09	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.03.18 13.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	79	%	70-130	10.03.18 13.09	
1,4-Difluorobenzene	540-36-3	95	%	70-130	10.03.18 13.09	

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-004	Date Collected:	09.26.18 11.45	Sample Depth:	4 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.18 09.15	Basis:	Wet Weight
Seq Number:	3064901				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1900**	49.5	mg/kg	10.01.18 11.32		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.28.18 16.00	Basis:	Wet Weight
Seq Number:	3064912				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.18 03.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.18 03.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.29.18 03.08	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.18 03.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	09.29.18 03.08	
o-Terphenyl	84-15-1	91	%	70-135	09.29.18 03.08	

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-004	Date Collected:	09.26.18 11.45	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.03.18 08.00	Basis:	Wet Weight
Seq Number:	3065219				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.03.18 10.19	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.03.18 10.19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.03.18 10.19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.03.18 10.19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.03.18 10.19	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.03.18 10.19	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.03.18 10.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	80	%	70-130	10.03.18 10.19	
4-Bromofluorobenzene	460-00-4	97	%	70-130	10.03.18 10.19	

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-005	Date Collected:	09.26.18 11.50	Sample Depth:	4 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.18 09.15	Basis:	Wet Weight
Seq Number:	3064901				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1910**	50.5	mg/kg	10.01.18 11.38		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.28.18 16.00	Basis:	Wet Weight
Seq Number:	3064912				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.18 03.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.18 03.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.29.18 03.27	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.18 03.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	09.29.18 03.27	
o-Terphenyl	84-15-1	88	%	70-135	09.29.18 03.27	

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-005	Date Collected:	09.26.18 11.50	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.03.18 08.00	Basis:	Wet Weight
Seq Number:	3065219				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	10.03.18 13.30	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	10.03.18 13.30	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	10.03.18 13.30	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	10.03.18 13.30	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	10.03.18 13.30	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	10.03.18 13.30	U	1
Total BTEX		<0.00201	0.00201	mg/kg	10.03.18 13.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	85	%	70-130	10.03.18 13.30	
4-Bromofluorobenzene	460-00-4	91	%	70-130	10.03.18 13.30	

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-006	Date Collected:	09.26.18 11.55	Sample Depth:	4 ft

Analytical Method:	Inorganic Anions by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	
Analyst:	CHE	Date Prep:	10.01.18 09.15	Basis:	Wet Weight
Seq Number:	3064901				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1080**	49.5	mg/kg	10.01.18 12.01		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	TX1005P
Tech:	ARM			% Moisture:	
Analyst:	ARM	Date Prep:	09.28.18 17.00	Basis:	Wet Weight
Seq Number:	3064919				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.18 09.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.18 09.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.29.18 09.36	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.18 09.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	09.29.18 09.36	
o-Terphenyl	84-15-1	91	%	70-135	09.29.18 09.36	

Certificate of Analytical Results 600489

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-006	Date Collected:	09.26.18 11.55	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.03.18 08.00	Basis:	Wet Weight
Seq Number:	3065219				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	10.03.18 13.51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	10.03.18 13.51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	10.03.18 13.51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	10.03.18 13.51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	10.03.18 13.51	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	10.03.18 13.51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	10.03.18 13.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.03.18 13.51	
1,4-Difluorobenzene	540-36-3	106	%	70-130	10.03.18 13.51	

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id: **FS04** Matrix: Soil Date Received:09.27.18 10.34
Lab Sample Id: 600489-007 Date Collected: 09.26.18 12.00 Sample Depth: 4 ft

Analytical Method: Inorganic Anions by EPA 300 Prep Method: E300P
Tech: SCM % Moisture:
Analyst: CHE Date Prep: 10.01.18 09.15 Basis: Wet Weight
Seq Number: 3064901

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1960**	101	mg/kg	10.01.18 12.06		20

Analytical Method: TPH by SW8015 Mod Prep Method: TX1005P
Tech: ARM % Moisture:
Analyst: ARM Date Prep: 09.28.18 17.00 Basis: Wet Weight
Seq Number: 3064919

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	15.0	mg/kg	09.29.18 10.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	15.0	mg/kg	09.29.18 10.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	15.0	mg/kg	09.29.18 10.33	U	1
Total TPH	PHC635	<15.0	15.0	mg/kg	09.29.18 10.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	09.29.18 10.33	
o-Terphenyl	84-15-1	92	%	70-135	09.29.18 10.33	

LT Environmental, Inc., Arvada, CO

EP USA 005

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	09.27.18 10.34
Lab Sample Id:	600489-007	Date Collected:	09.26.18 12.00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	ALJ			% Moisture:	
Analyst:	ALJ	Date Prep:	10.03.18 08.00	Basis:	Wet Weight
Seq Number:	3065219				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	10.03.18 15.18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	10.03.18 15.18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	10.03.18 15.18	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	10.03.18 15.18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	10.03.18 15.18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	10.03.18 15.18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	10.03.18 15.18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	10.03.18 15.18	
4-Bromofluorobenzene	460-00-4	103	%	70-130	10.03.18 15.18	

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.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 600489

LT Environmental, Inc.

EP USA 005

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3064901 Matrix: Solid Date Prep: 10.01.18
MB Sample Id: 7663267-1-BLK LCS Sample Id: 7663267-1-BKS LCSD Sample Id: 7663267-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<4.99	250	258	103	259	104	90-110	0	20	mg/kg	10.01.18 10:13	

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3064901 Matrix: Soil Date Prep: 10.01.18
Parent Sample Id: 600488-005 MS Sample Id: 600488-005 S MSD Sample Id: 600488-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1200	253	1400	79	1400	79	90-110	0	20	mg/kg	10.01.18 11:49	X

Analytical Method: **Inorganic Anions by EPA 300** Prep Method: E300P
Seq Number: 3064901 Matrix: Soil Date Prep: 10.01.18
Parent Sample Id: 600661-012 MS Sample Id: 600661-012 S MSD Sample Id: 600661-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	247	99	248	99	90-110	0	20	mg/kg	10.01.18 10:30	

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3064912 Matrix: Solid Date Prep: 09.28.18
MB Sample Id: 7663248-1-BLK LCS Sample Id: 7663248-1-BKS LCSD Sample Id: 7663248-1-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)	<8.00	1000	987	99	1080	108	70-135	9	20	mg/kg	09.28.18 19:29	
Diesel Range Organics (DRO)	<8.13	1000	1000	100	1080	108	70-135	8	20	mg/kg	09.28.18 19:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		120		125		70-135	%	09.28.18 19:29
o-Terphenyl	100		114		115		70-135	%	09.28.18 19:29

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike
Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added
LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

QC Summary 600489

LT Environmental, Inc.

EP USA 005

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3064919 Matrix: Solid Date Prep: 09.28.18
MB Sample Id: 7663251-1-BLK LCS Sample Id: 7663251-1-BKS LCSD Sample Id: 7663251-1-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)	<8.00	1000	1020	102	930	93	70-135	9	20	mg/kg	09.29.18 08:58	
Diesel Range Organics (DRO)	<8.13	1000	1040	104	941	94	70-135	10	20	mg/kg	09.29.18 08:58	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	109		117		111		70-135	%	09.29.18 08:58
o-Terphenyl	112		113		98		70-135	%	09.29.18 08:58

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3064912 Matrix: Soil Date Prep: 09.28.18
Parent Sample Id: 600266-005 MS Sample Id: 600266-005 S MSD Sample Id: 600266-005 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)	<7.99	999	965	97	981	98	70-135	2	20	mg/kg	09.28.18 20:26	
Diesel Range Organics (DRO)	<8.12	999	987	99	1010	101	70-135	2	20	mg/kg	09.28.18 20:26	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		116		70-135	%	09.28.18 20:26
o-Terphenyl	102		104		70-135	%	09.28.18 20:26

Analytical Method: **TPH by SW8015 Mod** Prep Method: TX1005P
Seq Number: 3064919 Matrix: Soil Date Prep: 09.28.18
Parent Sample Id: 600489-006 MS Sample Id: 600489-006 S MSD Sample Id: 600489-006 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)	8.67	999	987	98	974	97	70-135	1	20	mg/kg	09.29.18 09:55	
Diesel Range Organics (DRO)	<8.12	999	1010	101	1000	100	70-135	1	20	mg/kg	09.29.18 09:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		115		70-135	%	09.29.18 09:55
o-Terphenyl	100		96		70-135	%	09.29.18 09:55

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

QC Summary 600489

LT Environmental, Inc.

EP USA 005

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3065147 — Matrix: Solid — Date Prep: 10.02.18
MB Sample Id: 7663421-1-BLK — LCS Sample Id: 7663421-1-BKS — LCSD Sample Id: 7663421-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0806	80	0.0858	85	70-130	6	35	mg/kg	10.02.18 18:24	
Toluene	<0.00202	0.101	0.0762	75	0.0825	82	70-130	8	35	mg/kg	10.02.18 18:24	
Ethylbenzene	<0.00202	0.101	0.0860	85	0.0947	94	70-130	10	35	mg/kg	10.02.18 18:24	
m,p-Xylenes	<0.00102	0.202	0.167	83	0.189	94	70-130	12	35	mg/kg	10.02.18 18:24	
o-Xylene	<0.00202	0.101	0.0856	85	0.0948	94	70-130	10	35	mg/kg	10.02.18 18:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		106		100		70-130	%	10.02.18 18:24
4-Bromofluorobenzene	90		102		105		70-130	%	10.02.18 18:24

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3065219 — Matrix: Solid — Date Prep: 10.03.18
MB Sample Id: 7663470-1-BLK — LCS Sample Id: 7663470-1-BKS — LCSD Sample Id: 7663470-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.105	105	0.101	100	70-130	4	35	mg/kg	10.03.18 08:13	
Toluene	<0.00201	0.100	0.0967	97	0.0954	94	70-130	1	35	mg/kg	10.03.18 08:13	
Ethylbenzene	<0.00201	0.100	0.110	110	0.106	105	70-130	4	35	mg/kg	10.03.18 08:13	
m,p-Xylenes	<0.00402	0.201	0.219	109	0.211	104	70-130	4	35	mg/kg	10.03.18 08:13	
o-Xylene	<0.00201	0.100	0.109	109	0.106	105	70-130	3	35	mg/kg	10.03.18 08:13	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		114		96		70-130	%	10.03.18 08:13
4-Bromofluorobenzene	76		100		97		70-130	%	10.03.18 08:13

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3065147 — Matrix: Soil — Date Prep: 10.02.18
Parent Sample Id: 600989-001 — MS Sample Id: 600989-001 S — MSD Sample Id: 600989-001 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	0.0724	72	0.0845	85	70-130	15	35	mg/kg	10.02.18 19:07	
Toluene	<0.00200	0.100	0.0660	66	0.0758	76	70-130	14	35	mg/kg	10.02.18 19:07	X
Ethylbenzene	<0.00200	0.100	0.0676	68	0.0785	79	70-130	15	35	mg/kg	10.02.18 19:07	X
m,p-Xylenes	<0.00401	0.200	0.131	66	0.154	77	70-130	16	35	mg/kg	10.02.18 19:07	X
o-Xylene	<0.00200	0.100	0.0672	67	0.0791	79	70-130	16	35	mg/kg	10.02.18 19:07	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		101		70-130	%	10.02.18 19:07
4-Bromofluorobenzene	106		100		70-130	%	10.02.18 19:07

MS/MSD Percent Recovery — [D] = 100*(C-A) / B — LCS = Laboratory Control Sample — MS = Matrix Spike
Relative Percent Difference — RPD = 200* | (C-E) / (C+E) | — A = Parent Result — B = Spike Added
LCS/LCSD Recovery — [D] = 100 * (C) / [B] — C = MS/LCS Result — D = MSD/LCSD % Rec
Log Difference — Log Diff. = Log(Sample Duplicate) - Log(Original Sample) — E = MSD/LCSD Result

QC Summary 600489

LT Environmental, Inc.

EP USA 005

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

Seq Number: 3065219 Matrix: Soil Date Prep: 10.03.18

Parent Sample Id: 600489-004 MS Sample Id: 600489-004 S MSD Sample Id: 600489-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0742	73	0.0242	24	70-130	102	35	mg/kg	10.03.18 14:13	XF
Toluene	<0.00201	0.101	0.0664	66	0.0220	22	70-130	100	35	mg/kg	10.03.18 14:13	XF
Ethylbenzene	<0.00201	0.101	0.0744	74	0.0218	22	70-130	109	35	mg/kg	10.03.18 14:13	XF
m,p-Xylenes	<0.00102	0.201	0.148	74	0.0412	21	70-130	113	35	mg/kg	10.03.18 14:13	XF
o-Xylene	<0.00201	0.101	0.0750	74	0.0211	21	70-130	112	35	mg/kg	10.03.18 14:13	XF

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	84		94		70-130	%	10.03.18 14:13
4-Bromofluorobenzene	107		82		70-130	%	10.03.18 14:13

MS/MSD Percent Recovery [D] = 100*(C-A) / B LCS = Laboratory Control Sample MS = Matrix Spike

Relative Percent Difference RPD = 200* | (C-E) / (C+E) | A = Parent Result B = Spike Added

LCS/LCSD Recovery [D] = 100 * (C) / [B] C = MS/LCS Result D = MSD/LCSD % Rec

Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample) E = MSD/LCSD Result

CHAIN OF CUSTODY

Page 1 Of 1

XENCO LABORATORIES

Setting the Standard since 1990

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Xenco Quote #: | Xenco Job #: 660489

Client / Reporting Information

Company Name / Branch: LT Environmental, Inc. Permian Office
Company Address: 3300 N "A" St. Building 1 unit 103 Midland, TX 79705
Email: abaker@ltenv.com Phone No: (432) 704-5178
Project Contact: Adrian Baker
Samplers's Name

Project Information

Project Name/Number: EP USA 005
Project Location: EDDY, NM
Invoice To: LT Environmental - Adrian Baker
PO Number: 034818008

Analytical Information

BTEX (only 4 BTEX) 8021
DRO/GRO/MRO 8015
Chloride (300.0)

Matrix Codes

W = Water
S = Soil/Sed/Solid
GW = Ground Water
DW = Drinking Water
P = Product
SW = Surface water
SL = Sludge
OW = Ocean/Sea Water
WI = Wipe
O = Oil
WW = Waste Water
A = Air

No.	Field ID / Point of Collection	Collection: Sample Depth	Date	Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH/Zn Acetate	HNO3	H2SO4	NaOH	NaHSO4	MEOH	NONE	Field Comments
1	SW01	2'	09/26	11:05	S	1								X	ave depth
2	SW02	2'		11:10	S	1								X	
3	SW03	2'		11:15	S	1								X	next to Pad
4	FS01	4'		11:45	S	1								X	
5	FS02	4'		11:50	S	1								X	
6	FS03	4'		11:55	S	1								X	
7	FS04	4		12:00	S	1								X	
8															
9															
10															

Turnaround Time (Business days)

- [ ] Same Day TAT
- [ ] 5 Day TAT
- [ ] Next Day EMERGENCY
- [ ] 7 Day TAT
- [ ] 2 Day EMERGENCY
- [X] Contract TAT
- [ ] 3 Day EMERGENCY

TAT Starts Day received by Lab, if received by 5:00 pm

Data Deliverable Information

- [ ] Level II Std QC
- [ ] Level IV (Full Data Pkg /raw data)
- [ ] Level III Std QC+ Forms
- [ ] TRRP Level IV
- [ ] Level 3 (CLP Forms)
- [ ] UST / RG -411
- [ ] TRRP Checklist

Notes:

FED-EX / UPS: Tracking # 773394009590

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY

	Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		09/26/2018 15:00	1	2	9-27-18 10:34	2
3			3	4		4
5			5	Custody Seal #	Preserved where applicable	On Ice: X

Cooler Temp. 0.3 | Thermo. Corr. Factor 1.0

Notice: 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 loses are due to circumstances beyond the control of Xenco. A minimum charge of $75 will be applied to each project. Xenco's liability will be limited to the cost of samples. Any samples received by Xenco but not analyzed will be invoiced at $5 per sample. These terms will be enforced unless previously negotiated under a fully executed client contract.

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

XENCO Laboratories
Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 09/27/2018 10:34:00 AM

Work Order #: 600489

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

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	.3
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#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)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 09/27/2018
Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 09/28/2018
Jessica Kramer