

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	NAB1927727945
District RP	2RP-5646
Facility ID	
Application ID	pAB1927727596

Release Notification T23R1-190913-C-1410

Responsible Party

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD) NAB1927727945
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	

Location of Release Source

Latitude 32.297147° Longitude -103.914623°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Nash Unit #301H	Site Type Production Well Facility
Date Release Discovered 8/31/2019	API# (if applicable) 30-015-45500

Unit Letter	Section	Township	Range	County
A	19	23S	30E	Eddy

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

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)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 45	Volume Recovered (bbls) 35
	Is the concentration of total dissolved solids (TDS) 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

During frac operations, the valve from the water supply line to the tanks was not properly secured after closing. Water leaked by into tanks. The tanks overfilled into temporary lined containment and to the well pad. A vacuum truck recovered free fluids from the containment. Additional third party resources have been retained to assist with remediation. Remediation will begin when completions activities are concluded on the well pad.

Form C-141

State of New Mexico
Oil Conservation Division

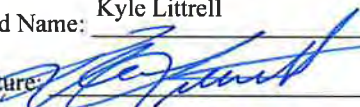
Page 2

Incident ID	NAB1927727945
District RP	2RP-5646
Facility ID	
Application ID	pAB1927727596

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? An unauthorized release of a volume of 25 barrels or more
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Notice provided by Bryan Foust to Mike Bratcher, Rob Hamlet, Victoria Venegas, and Jim Griswold (NMOCD), and Jim Amos and Deborah McKinney (BLM) on 8/31/2019 by email	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: N/A	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kyle Littrell</u> Signature:  email: <u>Kyle_Littrell@xtoenergy.com</u>	Title: <u>SH&E Supervisor</u> Date: <u>9/13/2019</u> Telephone: <u>432-221-7331</u>
OCD Only Received by: <u>Amalia Bustamante</u> Date: <u>10/4/2019</u>	

Incident ID	NAB1927727945
District RP	2RP-5646
Facility ID	
Application ID	pAB1927727596

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50-100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☒ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☒ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAB1927727945
District RP	2RP-5646
Facility ID	
Application ID	pAB1927727596

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 5-26-2020

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

OCD Only

Received by: _____ Date: _____

Incident ID	NAB1927727945
District RP	2RP-5646
Facility ID	
Application ID	pAB1927727596

Closure

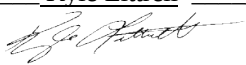
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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: Kyle Littrell Title: SH&E Supervisor

Signature:  Date: 05/26/2020

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

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party 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: _____



LT Environmental, Inc.

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

May 26, 2020

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

**RE: Closure Request
XTO Energy, Inc.
Nash Unit #301H
Incident Number NAB1927727945
Eddy County, New Mexico**

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing soil sampling and excavation activities at the Nash Unit #301H (Site) in Unit A, Section 19, Township 23 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the soil sampling and excavation activities was to address impacts to soil following an event that caused the release of produced water onto the well pad. Based on field observations, field screening activities, and laboratory analytical results for the final excavation soil samples, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAB1927727945.

RELEASE BACKGROUND

On August 31, 2019, during hydraulic fracturing operations, the valve from the water supply line to the tanks was not properly secured after closing, which allowed water to leak into the tanks. The tanks overfilled, and approximately 45 bbls of produced water were released within the temporary lined containment and onto the caliche well pad. A vacuum truck was dispatched to the Site to recover free-standing fluid; approximately 35 bbls of produced water were recovered. XTO reported the release to the NMOCD on a Release Notification Form C-141 on September 13, 2019 and was assigned Incident Number NAB1927727945.

SITE CHARACTERIZATION

LTE characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 50 and 100 feet below ground surface (bgs) based on the nearest water well data. The nearest permitted water well with depth to water data is United States Geological Survey (USGS) well 321742103552601, located approximately 3,102 feet southwest of the Site. The water well has a depth to



Bratcher, M.

Page 2

groundwater of 66 feet and a total depth of 100 feet. Ground surface elevation at the water well location is 3,102 feet above mean sea level (AMSL), which is approximately 78 feet lower in elevation than the Site. The closest continuously flowing water or significant watercourse to the Site is an unnamed dry wash located approximately 216 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is located in a high potential karst area. The Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg; and
- Chloride: 600 mg/kg.

SITE ASSESSMENT AND EXCAVATION ACTIVITIES

On September 19 and 20, 2019, LTE personnel inspected the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Hydraulic fracturing operations were in process at the well pad at the time of the inspection. LTE personnel collected eight preliminary soil samples (SS01 through SS08) from within the release extent from a depth of 0.5 feet bgs to assess the lateral extent of impacted surface soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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



Bratcher, M.

Page 3

Further delineation and remediation efforts were postponed, as ongoing hydraulic fracturing operations at the well pad near the release resulted in activity restrictions being imposed due to safety concerns at the Site. Per 19.15.29.12.B.(1) NMAC, an extension for submission of a Remediation Plan or Closure Request was granted. The extension was requested and approved November 20, 2019, by the NMOCD District II office extending the deadline to May 29, 2020.

LTE personnel returned to the Site during April and May 2020, once hydraulic fracturing and flowback operations were complete, to oversee excavation activities as indicated by the documented release area, field screening activities, and laboratory analytical results for the preliminary soil samples.

To direct excavation activities, LTE screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach® chloride QuanTab® test strips, respectively. Impacted soil was excavated to depths ranging from 0.5 feet to 9 feet bgs. Following removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS44, FS03A, FS11A, FS12A, FS13A, FS19A, FS25A, FS30A, FS31A, FS35A, FS36A, FS37A, FS39A, and FS43A were collected from the floor of the excavation from depths ranging from 0.5 feet to 9 feet bgs. Composite soil samples SW01 through SW06 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 9 feet bgs. Sidewall samples SW01 through SW06 were collected from the central area of the excavation where excavation depths warranted sidewall samples. No sidewall samples were collected from the shallow excavation areas as floor samples were representative of the sidewalls in these areas. The excavation soil samples were collected, handled, and analyzed as described above and submitted to Xenco in Carlsbad, New Mexico. The excavation extent and excavation soil sample locations are depicted on Figure 3. Photographic documentation was conducted during excavation activities. A photographic log is included in Attachment 1.

The excavation measured approximately 9,000 square feet in area with a depth of 0.5 feet to 9 feet bgs. Approximately 850 cubic yards of impacted soil were removed from the excavation. The impacted soil was transported and properly disposed of at the R360 Landfill located in Hobbs, New Mexico.

ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil sample SS01 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil samples SS02 through SS08 indicated that TPH and/or chloride concentrations exceeded the Closure Criteria. Based on laboratory analytical results for the preliminary soil samples, impacted soil was excavated.



Bratcher, M.
Page 4

Laboratory analytical results for excavation sidewall samples SW01 through SW06 and final excavation floor samples FS01, FS02, FS03A, FS04 through FS10, FS11A through FS13A, FS14 through FS18, FS19A, FS20 through FS24, FS25A, FS26 through FS29, FS30A, FS31A, FS32 through FS34, FS39, FS40 through FS42, and FS44 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria.

Floor samples FS03, FS11, FS12, FS13, FS19, FS25, FS30, FS31, FS35, FS36, FS37, FS39, and FS43, collected from depths ranging from 0.5 feet to 3.5 feet bgs, initially exceeded the Closure Criteria for chloride. Additional soil was removed from these areas, and subsequent floor samples FS03A, FS11A, FS12A, FS13A, FS19A, FS25A, FS30A, FS31A, FS35A, FS36A, FS37A, FS39A, and FS43A, collected from depths ranging from 1 foot to 9 feet bgs, were compliant with the Closure Criteria.

Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 2.

CONCLUSIONS

Site assessment and excavation activities were conducted at the Site to address the August 31, 2019 release of produced water onto the well pad. Based on laboratory analytical results for the preliminary soil samples collected within the release extent, impacted soil was excavated. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the excavation and soil sample analytical results, no further remediation was required.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. XTO requests no further action for Incident Number NAB1927727945. XTO will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Kalei Jennings
Project Environmental Scientist

Ashley L. Ager, P.G.
Senior Geologist



Bratcher, M.
Page 5

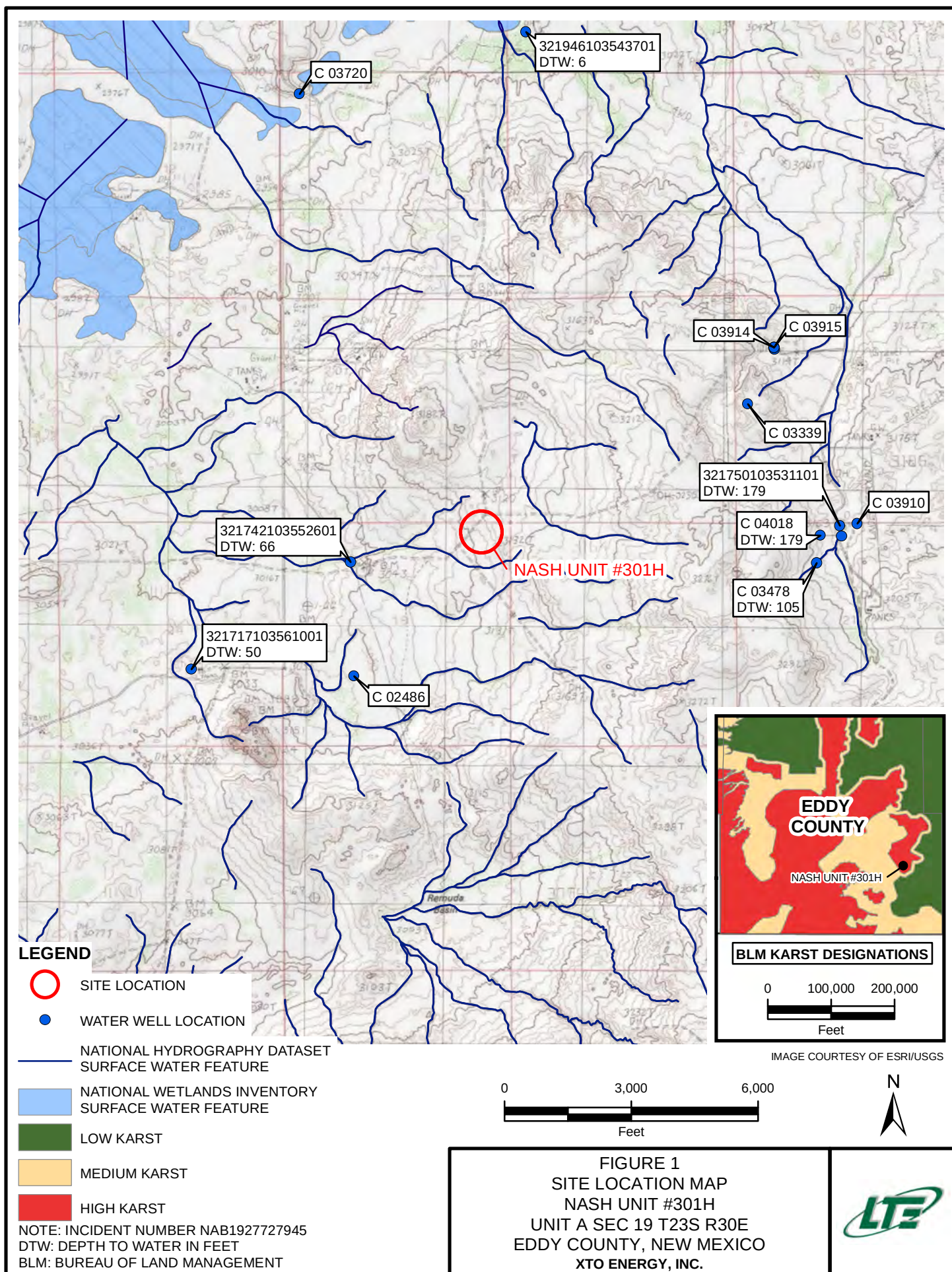
cc: Kyle Littrell, XTO
United States Bureau of Land Management – New Mexico
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

Appendices:

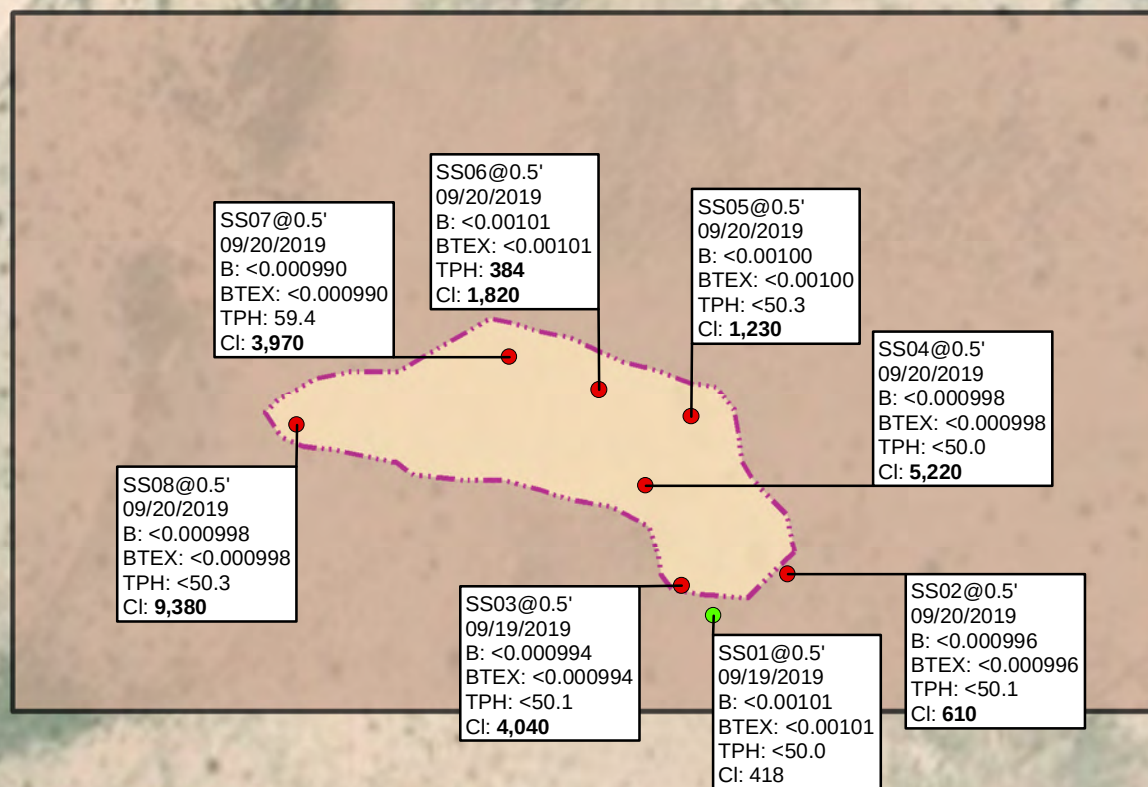
Figure 1 Site Location Map
Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Table 1 Soil Analytical Results
Attachment 1 Photographic Log
Attachment 2 Laboratory Analytical Reports

FIGURES





SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 SAMPLE DATE
 NMOCD TABLE 1 CLOSURE CRITERIA (NMAC 19.15.29.12)
 B = 10 mg/kg
 BTEX = 50 mg/kg
 TPH = 100 mg/kg
 Cl = 600 mg/kg
 ALL RESULTS IN MILLIGRAMS PER KILOGRAM (mg/kg)
 <: INDICATES RESULT IS LESS THAN THE
 LABORATORY REPORTING LIMIT
BOLD: INDICATES RESULT EXCEEDS THE
 APPLICABLE REGULATORY CLOSURE CRITERIA



LEGEND

- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- PRELIMINARY SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

- RELEASE EXTENT
- WELLPAD EXTENT

B: BENZENE
 BTEX: TOTAL BENZENE, TOLUENE, ETHYLBENZENE, AND TOTAL XYLENES
 TPH: TOTAL PETROLEUM HYDROCARBONS
 Cl: CHLORIDE
 NMAC: NEW MEXICO ADMINISTRATIVE CODE
 NMOCD: NEW MEXICO OIL CONSERVATION DIVISION
 NOTE: INCIDENT NUMBER NAB1927727945

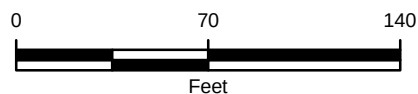


IMAGE COURTESY OF ESRI

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
 NASH UNIT #301H
 UNIT A SEC 19 T23S R30E
 EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.



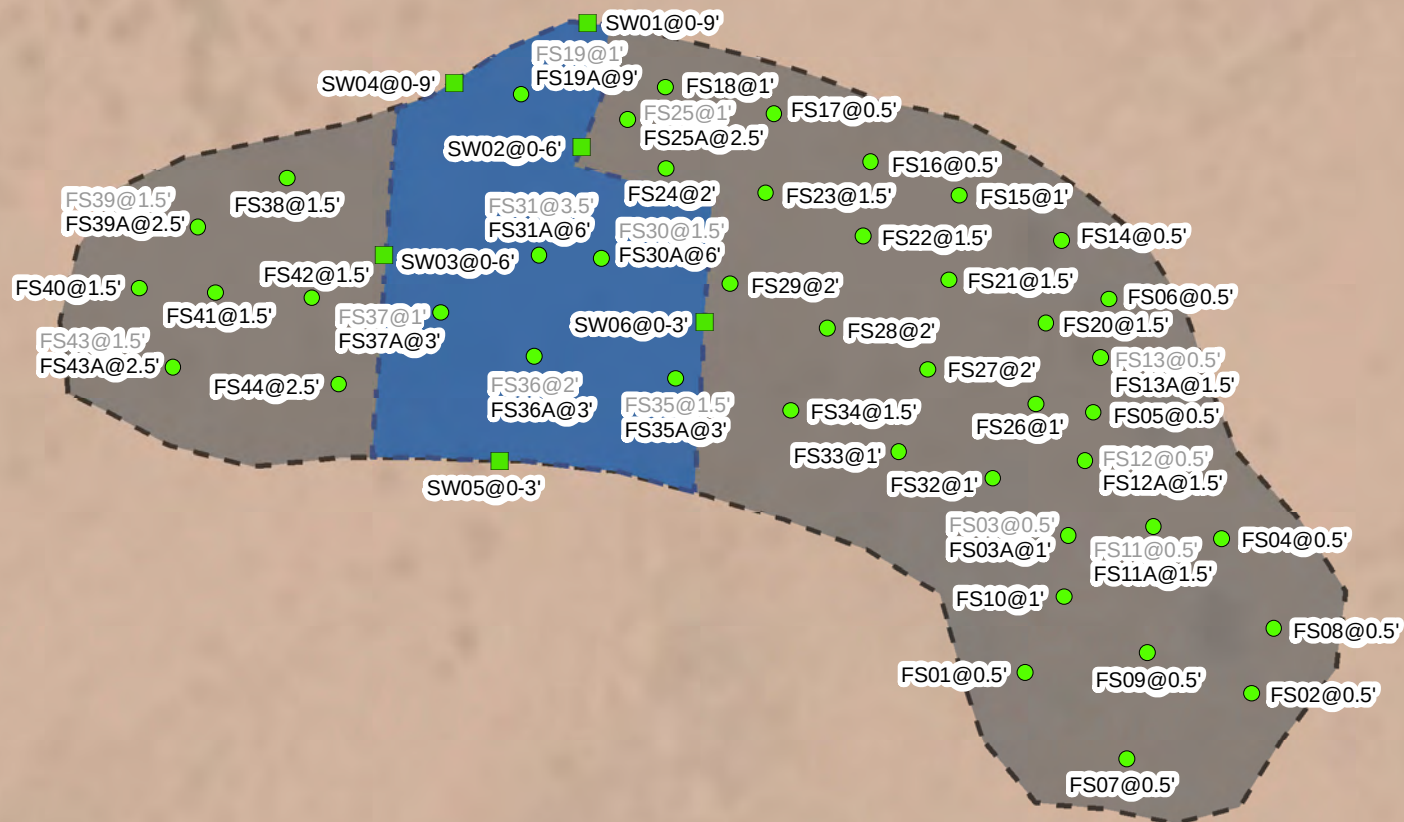


IMAGE COURTESY OF GOOGLE EARTH 2017

LEGEND

- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- DEEPER EXCAVATION AREA
- WELLPAD EXTENT
- EXCAVATION EXTENT

NOTE: INCIDENT NUMBER NAB1927727945
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
 TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

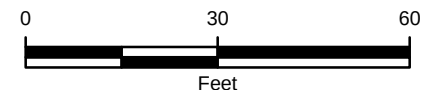


FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
 NASH UNIT #301H
 UNIT A SEC 19 T23S R30E
 EDDY COUNTY, NEW MEXICO
 XTO ENERGY, INC.



TABLES



TABLE 1
SOIL ANALYTICAL RESULTS

NASH UNIT #301H
INCIDENT NUMBER NAB1927727945
EDDY COUNTY, NEW MEXICO
XTO 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)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	NE	NE	NE	50	NE	NE	NE	NE	100	600
SS01	0.5	09/19/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.0	<50.0	<50.0	<50.0	<50.0	418
SS03	0.5	09/19/2019	<0.000994	<0.000994	<0.000994	<0.000994	<0.000994	<50.1	<50.1	<50.1	<50.1	<50.1	4,040
SS02	0.5	09/20/2019	<0.000996	<0.000996	<0.000996	<0.000996	<0.000996	<50.1	<50.1	<50.1	<50.1	<50.1	610
SS04	0.5	09/20/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<50.0	<50.0	<50.0	<50.0	<50.0	5,220
SS05	0.5	09/20/2019	<0.00100	<0.00100	<0.00100	<0.00100	<0.00100	<50.3	<50.3	<50.3	<50.3	<50.3	1,230
SS06	0.5	09/20/2019	<0.00101	<0.00101	<0.00101	<0.00101	<0.00101	<50.2	384	<50.2	384	384	1,820
SS07	0.5	09/20/2019	<0.000990	<0.000990	<0.000990	<0.000990	<0.000990	<50.3	59.4	<50.3	59.4	59.4	3,970
SS08	0.5	09/20/2019	<0.000998	<0.000998	<0.000998	<0.000998	<0.000998	<50.3	<50.3	<50.3	<50.3	<50.3	9,380
FS01	0.5	04/21/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	480
FS02	0.5	04/21/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	231
FS03	0.5	04/21/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	1,100
FS03A	1	04/22/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	304
FS04	0.5	04/21/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	283
FS05	0.5	04/21/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.3	<50.3	<50.3	<50.3	<50.3	435
FS06	0.5	04/21/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	429
FS07	0.5	04/22/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	195
FS08	0.5	04/22/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	241
FS09	0.5	04/22/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	263
FS10	1	04/22/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.7	<49.7	<49.7	<49.7	<49.7	231
FS11	0.5	04/22/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	681
FS11A	1.5	05/11/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	53.4
FS12	0.5	04/22/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	668
FS12A	1.5	05/11/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	83.6

**TABLE 1
SOIL ANALYTICAL RESULTS**

**NASH UNIT #301H
INCIDENT NUMBER NAB1927727945
EDDY COUNTY, NEW MEXICO
XTO 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)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	NE	NE	NE	50	NE	NE	NE	NE	100	600
FS13	0.5	04/22/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	616
FS13A	1.5	05/11/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	64.1
FS14	0.5	04/22/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	556
FS15	1	04/23/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	171
FS16	0.5	04/22/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	468
FS17	0.5	04/22/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	<50.3	325
FS18	1	04/23/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	406
FS19	1	04/23/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	696
FS19A	9	05/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	173
FS20	1.5	04/27/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	<50.3	38.8
FS21	1.5	04/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	79.2
FS22	1.5	04/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	118
FS23	1.5	04/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	237
FS24	2	04/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	293
FS25	1	04/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	949
FS25A	2.5	05/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	271
FS26	1	04/23/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	220
FS27	2	04/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	<9.96
FS28	2	04/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	33.7
FS29	2	04/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	39.4
FS30	1.5	04/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	1130
FS30A	6	05/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	387

TABLE 1
SOIL ANALYTICAL RESULTS

NASH UNIT #301H
INCIDENT NUMBER NAB1927727945
EDDY COUNTY, NEW MEXICO
XTO 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)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	NE	NE	NE	50	NE	NE	NE	NE	100	600
FS31	3.5	04/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	787
FS31A	6	05/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	103
FS32	1	04/23/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	525
FS33	1	04/23/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	419
FS34	1.5	04/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	349
FS35	1.5	04/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	719
FS35A	3	05/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	110
FS36	2	04/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	1170
FS36A	3	05/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	106
FS37	1	04/27/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	<50.3	1730
FS37A	3	05/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	92.3
FS38	1.5	04/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	159
FS39	1.5	04/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	822
FS39A	2.5	05/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	216
FS40	1.5	04/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	286
FS41	1.5	04/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	333
FS42	1.5	04/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	342
FS43	1.5	04/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	622
FS43A	2.5	05/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	93.6	<50.2	93.6	93.6	208
FS44	2.5	04/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	270

TABLE 1
SOIL ANALYTICAL RESULTS

NASH UNIT #301H
INCIDENT NUMBER NAB1927727945
EDDY COUNTY, NEW MEXICO
XTO 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)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			10	NE	NE	NE	50	NE	NE	NE	NE	100	600
SW01	0 - 9	05/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	210
SW02	0 - 6	05/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	122
SW03	0 - 6	05/06/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	217
SW04	0 - 9	05/06/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	212
SW05	0 - 3	05/06/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	110
SW06	0 - 3	05/06/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	111

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

NMAC - New Mexico Administrative Code

NMOCD - New Mexico Oil Conservation Division

NE - not established

TPH - total petroleum hydrocarbons

Bold - indicates result exceeds the applicable regulatory standard

< - indicates result is below laboratory reporting limits

Table 1 - closure criteria for soils impacted by a release per NMAC 19.15.29 August 2018

ATTACHMENT 1: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG



Photograph 1: West facing view during excavation activities.



Photograph 2: East facing view during excavation activities.

PHOTOGRAPHIC LOG



Photograph 3: South facing view during excavation activities.



Photograph 4: North facing view during excavation activities.

ATTACHMENT 2: LABORATORY ANALYTICAL REPORTS



Analytical Report 637645

for
LT Environmental, Inc.

Project Manager: Dan Moir

Nash 301H

012919216

24-SEP-19

Collected By: Client



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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142), North Carolina (681)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (TX104704295-19-21), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-20)
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-Tampa: Florida (E87429), North Carolina (483)



24-SEP-19

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **637645**

Nash 301H

Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 637645. 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. 637645 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project 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 637645****LT Environmental, Inc., Arvada, CO**

Nash 301H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	09-19-19 11:20	0.5 ft	637645-001
SS03	S	09-19-19 11:39	0.5 ft	637645-002
SS02	S	09-20-19 10:45	0.5 ft	637645-003
SS04	S	09-20-19 10:57	0.5 ft	637645-004
SS05	S	09-20-19 11:12	0.5 ft	637645-005
SS06	S	09-20-19 11:22	0.5 ft	637645-006
SS07	S	09-20-19 12:05	0.5 ft	637645-007
SS08	S	09-20-19 12:33	0.5 ft	637645-008

**CASE NARRATIVE****Client Name: LT Environmental, Inc.****Project Name: Nash 301H**

Project ID: 012919216
Work Order Number(s): 637645

Report Date: 24-SEP-19
Date Received: 09/20/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3102235 TPH by SW8015 Mod

Lab Sample ID 637645-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Diesel Range Organics (DRO) recovered above QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 637645-001, -002, -003, -004, -005, -006, -007, -008.

The Laboratory Control Sample for Diesel Range Organics (DRO) is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3102250 BTEX by EPA 8021B

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



Certificate of Analysis Summary 637645

LT Environmental, Inc., Arvada, CO

Project Name: Nash 301H

Project Id: 012919216

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri Sep-20-19 04:04 pm

Report Date: 24-SEP-19

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	637645-001	637645-002	637645-003	637645-004	637645-005	637645-006
	<i>Field Id:</i>	SS01	SS03	SS02	SS04	SS05	SS06
	<i>Depth:</i>	0.5- ft	0.5- ft	0.5- ft	0.5- ft	0.5- ft	0.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	Sep-19-19 11:20	Sep-19-19 11:39	Sep-20-19 10:45	Sep-20-19 10:57	Sep-20-19 11:12	Sep-20-19 11:22
BTEX by EPA 8021B	<i>Extracted:</i>	Sep-23-19 11:00	Sep-23-19 11:00	Sep-23-19 11:00	Sep-23-19 11:00	Sep-23-19 11:00	Sep-23-19 11:00
	<i>Analyzed:</i>	Sep-23-19 14:17	Sep-23-19 15:36	Sep-23-19 15:56	Sep-23-19 16:16	Sep-23-19 16:35	Sep-23-19 16:55
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00101 0.00101	<0.000994 0.000994	<0.000996 0.000996	<0.000998 0.000998	<0.00100 0.00100	<0.00101 0.00101
Toluene		<0.00101 0.00101	<0.000994 0.000994	<0.000996 0.000996	<0.000998 0.000998	<0.00100 0.00100	<0.00101 0.00101
Ethylbenzene		<0.00101 0.00101	<0.000994 0.000994	<0.000996 0.000996	<0.000998 0.000998	<0.00100 0.00100	<0.00101 0.00101
m,p-Xylenes		<0.00202 0.00202	<0.00199 0.00199	<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201	<0.00202 0.00202
o-Xylene		<0.00101 0.00101	<0.000994 0.000994	<0.000996 0.000996	<0.000998 0.000998	<0.00100 0.00100	<0.00101 0.00101
Total Xylenes		<0.00101 0.00101	<0.000994 0.000994	<0.000996 0.000996	<0.000998 0.000998	<0.00100 0.00100	<0.00101 0.00101
Total BTEX		<0.00101 0.00101	<0.000994 0.000994	<0.000996 0.000996	<0.000998 0.000998	<0.00100 0.00100	<0.00101 0.00101
Chloride by EPA 300	<i>Extracted:</i>	Sep-23-19 15:09	Sep-23-19 15:09	Sep-23-19 15:09	Sep-23-19 15:09	Sep-23-19 15:09	Sep-23-19 15:09
	<i>Analyzed:</i>	Sep-23-19 18:28	Sep-23-19 18:34	Sep-23-19 18:41	Sep-23-19 18:47	Sep-23-19 18:54	Sep-23-19 19:01
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		418 D 201	4040 497	610 498	5220 D 200	1230 494	1820 495
TPH by SW8015 Mod	<i>Extracted:</i>	Sep-23-19 12:30	Sep-23-19 12:30	Sep-23-19 12:30	Sep-23-19 12:30	Sep-23-19 12:30	Sep-23-19 12:30
	<i>Analyzed:</i>	Sep-23-19 14:47	Sep-23-19 15:47	Sep-23-19 16:08	Sep-23-19 16:29	Sep-23-19 16:49	Sep-23-19 17:10
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.1 50.1	<50.1 50.1	<50.0 50.0	<50.3 50.3	<50.2 50.2
Diesel Range Organics (DRO)		<50.0 50.0	<50.1 50.1	<50.1 50.1	<50.0 50.0	<50.3 50.3	384 50.2
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.1 50.1	<50.1 50.1	<50.0 50.0	<50.3 50.3	<50.2 50.2
Total GRO-DRO		<50.0 50.0	<50.1 50.1	<50.1 50.1	<50.0 50.0	<50.3 50.3	384 50.2
Total TPH		<50.0 50.0	<50.1 50.1	<50.1 50.1	<50.0 50.0	<50.3 50.3	384 50.2

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

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

Version: 1.9%

Jessica Kramer
Project Assistant



Certificate of Analysis Summary 637645

LT Environmental, Inc., Arvada, CO

Project Name: Nash 301H

Project Id: 012919216

Contact: Dan Moir

Project Location:

Date Received in Lab: Fri Sep-20-19 04:04 pm

Report Date: 24-SEP-19

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	637645-007	637645-008				
	Field Id:	SS07	SS08				
	Depth:	0.5- ft	0.5- ft				
	Matrix:	SOIL	SOIL				
	Sampled:	Sep-20-19 12:05	Sep-20-19 12:33				
BTEX by EPA 8021B	Extracted:	Sep-23-19 11:00	Sep-23-19 11:00				
	Analyzed:	Sep-23-19 17:16	Sep-23-19 17:35				
	Units/RL:	mg/kg RL	mg/kg RL				
	Benzene	<0.000990 0.000990	<0.000998 0.000998				
	Toluene	<0.000990 0.000990	<0.000998 0.000998				
Ethylbenzene		<0.000990 0.000990	<0.000998 0.000998				
m,p-Xylenes		<0.00198 0.00198	<0.00200 0.00200				
o-Xylene		<0.000990 0.000990	<0.000998 0.000998				
Total Xylenes		<0.000990 0.000990	<0.000998 0.000998				
Total BTEX		<0.000990 0.000990	<0.000998 0.000998				
Chloride by EPA 300	Extracted:	Sep-23-19 15:09	Sep-23-19 15:09				
	Analyzed:	Sep-23-19 19:07	Sep-23-19 19:14				
	Units/RL:	mg/kg RL	mg/kg RL				
	Chloride	3970 497	9380 497				
TPH by SW8015 Mod	Extracted:	Sep-23-19 12:30	Sep-23-19 12:30				
	Analyzed:	Sep-23-19 17:31	Sep-23-19 17:52				
	Units/RL:	mg/kg RL	mg/kg RL				
	Gasoline Range Hydrocarbons (GRO)	<50.3 50.3	<50.3 50.3				
	Diesel Range Organics (DRO)	59.4 50.3	<50.3 50.3				
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<50.3 50.3				
Total GRO-DRO		59.4 50.3	<50.3 50.3				
Total TPH		59.4 50.3	<50.3 50.3				

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

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

Version: 1.0%

Jessica Kramer

Jessica Kramer
Project Assistant



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS01** Matrix: Soil Date Received: 09.20.19 16.04
 Lab Sample Id: 637645-001 Date Collected: 09.19.19 11.20 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.23.19 15.09 Basis: Wet Weight
 Seq Number: 3102230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	418	201	mg/kg	09.23.19 19.42	D	20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.23.19 12.30 Basis: Wet Weight
 Seq Number: 3102235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.23.19 14.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.23.19 14.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.23.19 14.47	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	09.23.19 14.47	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.23.19 14.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	09.23.19 14.47	
o-Terphenyl	84-15-1	98	%	70-135	09.23.19 14.47	



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS01**
Lab Sample Id: 637645-001

Matrix: Soil
Date Collected: 09.19.19 11.20

Date Received: 09.20.19 16.04
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: DTH

Analyst: DTH

Seq Number: 3102250

Date Prep: 09.23.19 11.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	09.23.19 14.17	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	09.23.19 14.17	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	09.23.19 14.17	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	09.23.19 14.17	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	09.23.19 14.17	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	09.23.19 14.17	U	1
Total BTEX		<0.00101	0.00101	mg/kg	09.23.19 14.17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	09.23.19 14.17		
1,4-Difluorobenzene	540-36-3	104	%	70-130	09.23.19 14.17		



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS03** Matrix: Soil Date Received: 09.20.19 16.04
 Lab Sample Id: 637645-002 Date Collected: 09.19.19 11.39 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.23.19 15.09 Basis: Wet Weight
 Seq Number: 3102230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4040	497	mg/kg	09.23.19 18.34		50

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.23.19 12.30 Basis: Wet Weight
 Seq Number: 3102235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	09.23.19 15.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	09.23.19 15.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	09.23.19 15.47	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	09.23.19 15.47	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	09.23.19 15.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	09.23.19 15.47	
o-Terphenyl	84-15-1	95	%	70-135	09.23.19 15.47	



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS03**
Lab Sample Id: 637645-002

Matrix: Soil
Date Collected: 09.19.19 11.39

Date Received: 09.20.19 16.04
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DTH

% Moisture:

Analyst: DTH

Date Prep: 09.23.19 11.00

Basis: Wet Weight

Seq Number: 3102250

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	09.23.19 15.36	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	09.23.19 15.36	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	09.23.19 15.36	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	09.23.19 15.36	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	09.23.19 15.36	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	09.23.19 15.36	U	1
Total BTEX		<0.000994	0.000994	mg/kg	09.23.19 15.36	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.23.19 15.36		
4-Bromofluorobenzene	460-00-4	102	%	70-130	09.23.19 15.36		



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS02** Matrix: Soil Date Received: 09.20.19 16.04
 Lab Sample Id: 637645-003 Date Collected: 09.20.19 10.45 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.23.19 15.09 Basis: Wet Weight
 Seq Number: 3102230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	610	498	mg/kg	09.23.19 18.41		50

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.23.19 12.30 Basis: Wet Weight
 Seq Number: 3102235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	09.23.19 16.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	09.23.19 16.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	09.23.19 16.08	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	09.23.19 16.08	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	09.23.19 16.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	09.23.19 16.08	
o-Terphenyl	84-15-1	97	%	70-135	09.23.19 16.08	



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS02**
Lab Sample Id: 637645-003

Matrix: Soil
Date Collected: 09.20.19 10.45

Date Received: 09.20.19 16.04
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: DTH

Analyst: DTH

Seq Number: 3102250

Prep Method: SW5030B

% Moisture:

Date Prep: 09.23.19 11.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996	mg/kg	09.23.19 15.56	U	1
Toluene	108-88-3	<0.000996	0.000996	mg/kg	09.23.19 15.56	U	1
Ethylbenzene	100-41-4	<0.000996	0.000996	mg/kg	09.23.19 15.56	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	09.23.19 15.56	U	1
o-Xylene	95-47-6	<0.000996	0.000996	mg/kg	09.23.19 15.56	U	1
Total Xylenes	1330-20-7	<0.000996	0.000996	mg/kg	09.23.19 15.56	U	1
Total BTEX		<0.000996	0.000996	mg/kg	09.23.19 15.56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	103	%	70-130	09.23.19 15.56		
1,4-Difluorobenzene	540-36-3	103	%	70-130	09.23.19 15.56		



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS04** Matrix: Soil Date Received: 09.20.19 16.04
 Lab Sample Id: 637645-004 Date Collected: 09.20.19 10.57 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.23.19 15.09 Basis: Wet Weight
 Seq Number: 3102230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5220	200	mg/kg	09.23.19 20.02	D	20

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.23.19 12.30 Basis: Wet Weight
 Seq Number: 3102235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	09.23.19 16.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	09.23.19 16.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	09.23.19 16.29	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	09.23.19 16.29	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	09.23.19 16.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	09.23.19 16.29	
o-Terphenyl	84-15-1	100	%	70-135	09.23.19 16.29	



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS04**
Lab Sample Id: 637645-004

Matrix: Soil
Date Collected: 09.20.19 10.57

Date Received: 09.20.19 16.04
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: DTH

Analyst: DTH

Seq Number: 3102250

Prep Method: SW5030B

% Moisture:

Date Prep: 09.23.19 11.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	09.23.19 16.16	U	1
Toluene	108-88-3	<0.000998	0.000998	mg/kg	09.23.19 16.16	U	1
Ethylbenzene	100-41-4	<0.000998	0.000998	mg/kg	09.23.19 16.16	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	09.23.19 16.16	U	1
o-Xylene	95-47-6	<0.000998	0.000998	mg/kg	09.23.19 16.16	U	1
Total Xylenes	1330-20-7	<0.000998	0.000998	mg/kg	09.23.19 16.16	U	1
Total BTEX		<0.000998	0.000998	mg/kg	09.23.19 16.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	09.23.19 16.16		
4-Bromofluorobenzene	460-00-4	93	%	70-130	09.23.19 16.16		



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS05** Matrix: Soil Date Received: 09.20.19 16.04
 Lab Sample Id: 637645-005 Date Collected: 09.20.19 11.12 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.23.19 15.09 Basis: Wet Weight
 Seq Number: 3102230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1230	494	mg/kg	09.23.19 18.54		50

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.23.19 12.30 Basis: Wet Weight
 Seq Number: 3102235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	09.23.19 16.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	09.23.19 16.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	09.23.19 16.49	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	09.23.19 16.49	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	09.23.19 16.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	09.23.19 16.49	
o-Terphenyl	84-15-1	100	%	70-135	09.23.19 16.49	



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS05**
Lab Sample Id: 637645-005

Matrix: Soil
Date Collected: 09.20.19 11.12

Date Received: 09.20.19 16.04
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5030B

Tech: DTH

% Moisture:

Analyst: DTH

Date Prep: 09.23.19 11.00

Basis: Wet Weight

Seq Number: 3102250

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	09.23.19 16.35	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	09.23.19 16.35	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	09.23.19 16.35	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	09.23.19 16.35	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	09.23.19 16.35	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	09.23.19 16.35	U	1
Total BTEX		<0.00100	0.00100	mg/kg	09.23.19 16.35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	127	%	70-130	09.23.19 16.35		
1,4-Difluorobenzene	540-36-3	88	%	70-130	09.23.19 16.35		



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS06** Matrix: Soil Date Received: 09.20.19 16.04
 Lab Sample Id: 637645-006 Date Collected: 09.20.19 11.22 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.23.19 15.09 Basis: Wet Weight
 Seq Number: 3102230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1820	495	mg/kg	09.23.19 19.01		50

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.23.19 12.30 Basis: Wet Weight
 Seq Number: 3102235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	09.23.19 17.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	384	50.2	mg/kg	09.23.19 17.10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	09.23.19 17.10	U	1
Total GRO-DRO	PHC628	384	50.2	mg/kg	09.23.19 17.10		1
Total TPH	PHC635	384	50.2	mg/kg	09.23.19 17.10		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	09.23.19 17.10	
o-Terphenyl	84-15-1	107	%	70-135	09.23.19 17.10	



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS06**
Lab Sample Id: 637645-006

Matrix: Soil
Date Collected: 09.20.19 11.22

Date Received: 09.20.19 16.04
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: DTH

Analyst: DTH

Seq Number: 3102250

Date Prep: 09.23.19 11.00

Prep Method: SW5030B

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	09.23.19 16.55	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	09.23.19 16.55	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	09.23.19 16.55	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	09.23.19 16.55	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	09.23.19 16.55	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	09.23.19 16.55	U	1
Total BTEX		<0.00101	0.00101	mg/kg	09.23.19 16.55	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	88	%	70-130	09.23.19 16.55		
1,4-Difluorobenzene	540-36-3	112	%	70-130	09.23.19 16.55		



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS07** Matrix: Soil Date Received: 09.20.19 16.04
 Lab Sample Id: 637645-007 Date Collected: 09.20.19 12.05 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.23.19 15.09 Basis: Wet Weight
 Seq Number: 3102230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3970	497	mg/kg	09.23.19 19.07		50

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.23.19 12.30 Basis: Wet Weight
 Seq Number: 3102235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	09.23.19 17.31	U	1
Diesel Range Organics (DRO)	C10C28DRO	59.4	50.3	mg/kg	09.23.19 17.31		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	09.23.19 17.31	U	1
Total GRO-DRO	PHC628	59.4	50.3	mg/kg	09.23.19 17.31		1
Total TPH	PHC635	59.4	50.3	mg/kg	09.23.19 17.31		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	09.23.19 17.31	
o-Terphenyl	84-15-1	104	%	70-135	09.23.19 17.31	



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS07**
Lab Sample Id: 637645-007

Matrix: Soil
Date Collected: 09.20.19 12.05

Date Received: 09.20.19 16.04
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: DTH

Analyst: DTH

Seq Number: 3102250

Prep Method: SW5030B

% Moisture:

Date Prep: 09.23.19 11.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000990	0.000990	mg/kg	09.23.19 17.16	U	1
Toluene	108-88-3	<0.000990	0.000990	mg/kg	09.23.19 17.16	U	1
Ethylbenzene	100-41-4	<0.000990	0.000990	mg/kg	09.23.19 17.16	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	09.23.19 17.16	U	1
o-Xylene	95-47-6	<0.000990	0.000990	mg/kg	09.23.19 17.16	U	1
Total Xylenes	1330-20-7	<0.000990	0.000990	mg/kg	09.23.19 17.16	U	1
Total BTEX		<0.000990	0.000990	mg/kg	09.23.19 17.16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	92	%	70-130	09.23.19 17.16		
1,4-Difluorobenzene	540-36-3	102	%	70-130	09.23.19 17.16		



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS08** Matrix: Soil Date Received: 09.20.19 16.04
 Lab Sample Id: 637645-008 Date Collected: 09.20.19 12.33 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 09.23.19 15.09 Basis: Wet Weight
 Seq Number: 3102230

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9380	497	mg/kg	09.23.19 19.14		50

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 09.23.19 12.30 Basis: Wet Weight
 Seq Number: 3102235

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	09.23.19 17.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	09.23.19 17.52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	09.23.19 17.52	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	09.23.19 17.52	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	09.23.19 17.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	09.23.19 17.52	
o-Terphenyl	84-15-1	98	%	70-135	09.23.19 17.52	



Certificate of Analytical Results 637645

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SS08**
Lab Sample Id: 637645-008

Matrix: Soil
Date Collected: 09.20.19 12.33

Date Received: 09.20.19 16.04
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: DTH

Analyst: DTH

Seq Number: 3102250

Prep Method: SW5030B

% Moisture:

Date Prep: 09.23.19 11.00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	09.23.19 17.35	U	1
Toluene	108-88-3	<0.000998	0.000998	mg/kg	09.23.19 17.35	U	1
Ethylbenzene	100-41-4	<0.000998	0.000998	mg/kg	09.23.19 17.35	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	09.23.19 17.35	U	1
o-Xylene	95-47-6	<0.000998	0.000998	mg/kg	09.23.19 17.35	U	1
Total Xylenes	1330-20-7	<0.000998	0.000998	mg/kg	09.23.19 17.35	U	1
Total BTEX		<0.000998	0.000998	mg/kg	09.23.19 17.35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	90	%	70-130	09.23.19 17.35		
4-Bromofluorobenzene	460-00-4	121	%	70-130	09.23.19 17.35		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.

Nash 301H

Analytical Method: Chloride by EPA 300

Seq Number: 3102230

MB Sample Id: 7686698-1-BLK

Matrix: Solid

LCS Sample Id: 7686698-1-BKS

Prep Method: E300P

Date Prep: 09.23.19

LCSD Sample Id: 7686698-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	260	104	261	104	90-110	0	20	mg/kg	09.23.19 15:44	

Analytical Method: Chloride by EPA 300

Seq Number: 3102230

Parent Sample Id: 637684-001

Matrix: Soil

MS Sample Id: 637684-001 S

Prep Method: E300P

Date Prep: 09.23.19

MSD Sample Id: 637684-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	369	199	680	156	682	157	90-110	0	20	mg/kg	09.23.19 16:02	X

Analytical Method: Chloride by EPA 300

Seq Number: 3102230

Parent Sample Id: 637690-006

Matrix: Soil

MS Sample Id: 637690-006 S

Prep Method: E300P

Date Prep: 09.23.19

MSD Sample Id: 637690-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	29.4	200	254	112	256	114	90-110	1	20	mg/kg	09.23.19 17:47	X

Analytical Method: TPH by SW8015 Mod

Seq Number: 3102235

MB Sample Id: 7686706-1-BLK

Matrix: Solid

LCS Sample Id: 7686706-1-BKS

Prep Method: SW8015P

Date Prep: 09.23.19

LCSD Sample Id: 7686706-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1130	113	1090	109	70-135	4	35	mg/kg	09.23.19 13:13	
Diesel Range Organics (DRO)	<50.0	1000	1300	130	1230	123	70-135	6	35	mg/kg	09.23.19 13:13	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	107		119		112		70-135	%	09.23.19 13:13
o-Terphenyl	94		108		101		70-135	%	09.23.19 13:13

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

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

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

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



LT Environmental, Inc.

Nash 301H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3102235

Parent Sample Id: 637645-001

Matrix: Soil

MS Sample Id: 637645-001 S

Prep Method: SW8015P

Date Prep: 09.23.19

MSD Sample Id: 637645-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1300	130	1190	119	70-135	9	35	mg/kg	09.23.19 15:06	
Diesel Range Organics (DRO)	<50.2	1000	1500	150	1400	140	70-135	7	35	mg/kg	09.23.19 15:06	X

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	122		112		70-135	%	09.23.19 15:06
o-Terphenyl	120		119		70-135	%	09.23.19 15:06

Analytical Method: BTEX by EPA 8021B

Seq Number: 3102250

MB Sample Id: 7686748-1-BLK

Matrix: Solid

LCS Sample Id: 7686748-1-BKS

Prep Method: SW5030B

Date Prep: 09.23.19

LCSD Sample Id: 7686748-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.0880	88	0.0913	91	70-130	4	35	mg/kg	09.23.19 13:18	
Toluene	<0.00100	0.100	0.0950	95	0.0962	96	70-130	1	35	mg/kg	09.23.19 13:18	
Ethylbenzene	<0.00100	0.100	0.111	111	0.113	113	71-129	2	35	mg/kg	09.23.19 13:18	
m,p-Xylenes	<0.00200	0.200	0.228	114	0.230	115	70-135	1	35	mg/kg	09.23.19 13:18	
o-Xylene	<0.00100	0.100	0.113	113	0.114	114	71-133	1	35	mg/kg	09.23.19 13:18	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		102		100		70-130	%	09.23.19 13:18
4-Bromofluorobenzene	94		112		107		70-130	%	09.23.19 13:18

Analytical Method: BTEX by EPA 8021B

Seq Number: 3102250

Parent Sample Id: 637645-001

Matrix: Soil

MS Sample Id: 637645-001 S

Prep Method: SW5030B

Date Prep: 09.23.19

MSD Sample Id: 637645-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00101	0.101	0.0809	80	0.0831	82	70-130	3	35	mg/kg	09.23.19 14:37	
Toluene	<0.00101	0.101	0.0831	82	0.0856	85	70-130	3	35	mg/kg	09.23.19 14:37	
Ethylbenzene	<0.00101	0.101	0.0990	98	0.103	102	71-129	4	35	mg/kg	09.23.19 14:37	
m,p-Xylenes	<0.00201	0.201	0.204	101	0.207	102	70-135	1	35	mg/kg	09.23.19 14:37	
o-Xylene	<0.00101	0.101	0.102	101	0.105	104	71-133	3	35	mg/kg	09.23.19 14:37	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	109		111		70-130	%	09.23.19 14:37
4-Bromofluorobenzene	125		116		70-130	%	09.23.19 14:37

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

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

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

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



Chain of Custody

Work Order No. 10371045

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

www.xenco.com

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Littlell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	432.236.3849	Email:	idelval@xenv.com

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

ANALYSIS REQUEST

Work Order Notes

Project Name:	Nash 301H	Turn Around	
Project Number:	012919216	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Benjamin Beiter Luis Del Val	Due Date:	

Temperature (°C):	4.8	Thermometer ID	T-NM-007
Received Intact:	Yes ☒ No	Correction Factor:	-0.2
Cooler Custody Seals:	Yes ☒ No	Total Containers:	8
Sample Custody Seals:	Yes ☒ No		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)										
5501	S	9/19/19	1120	.5'	1	X	X	X										
5503	S	9/20/19	1139		1	X	X	X										
5502	S	9/20/19	1045		1	X	X	X										
5504	S		1057		1	X	X	X										
5505	S		1112		1	X	X	X										
5506	S		1122		1	X	X	X										
5507	S		1205		1	X	X	X										
5508	S		1233		1	X	X	X										

Total 200.7 / 6010 200.8 / 6020:

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

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Pb Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

1631 / 245.1 / 7470 / 7471 : Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		9/20/19 16:01			



Client: LT Environmental, Inc.

Date/ Time Received: 09/20/2019 04:04:00 PM

Work Order #: 637645

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	4.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 09/23/2019

Checklist reviewed by:

Jessica Kramer

Date: 09/23/2019



Analytical Report 659424

for

LT Environmental, Inc.

Project Manager: Dan Moir

Nash 301 H

012919216

04.22.2020

Collected By: Client

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

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



04.22.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **659424**

Nash 301 H

Project Address: Eddy

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659424. 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. 659424 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 659424****LT Environmental, Inc., Arvada, CO**

Nash 301 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS03	S	04.21.2020 13:55	0.5 ft	659424-001
FS05	S	04.21.2020 14:00	0.5 ft	659424-002
FS06	S	04.21.2020 14:00	0.5 ft	659424-003



CASE NARRATIVE

Client Name: *LT Environmental, Inc.*

Project Name: *Nash 301 H*

Project ID: 012919216
Work Order Number(s): 659424

Report Date: 04.22.2020
Date Received: 04.21.2020

Sample receipt non conformances and comments:

Samples received in bulk containers.

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3123697 BTEX by EPA 8021B

Samples received in bulk containers.



Certificate of Analysis Summary 659424

LT Environmental, Inc., Arvada, CO

Project Name: Nash 301 H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Tue 04.21.2020 16:36

Report Date: 04.22.2020 13:26

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	659424-001	659424-002	659424-003			
	Field Id:	FS03	FS05	FS06			
	Depth:	0.5- ft	0.5- ft	0.5- ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	04.21.2020 13:55	04.21.2020 14:00	04.21.2020 14:00			
BTEX by EPA 8021B	Extracted:	04.21.2020 18:00	04.21.2020 18:00	04.21.2020 18:00			
	Analyzed:	04.22.2020 00:59	04.22.2020 01:20	04.22.2020 01:40			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200			
Toluene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200			
Ethylbenzene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200			
m,p-Xylenes		<0.00399 0.00399	<0.00397 0.00397	<0.00401 0.00401			
o-Xylene		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200			
Total Xylenes		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200			
Total BTEX		<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200			
Chloride by EPA 300	Extracted:	04.21.2020 17:00	04.21.2020 17:00	04.21.2020 17:00			
	Analyzed:	04.21.2020 19:09	04.21.2020 19:14	04.21.2020 19:20			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		1100 50.1	435 49.7	429 49.7			
TPH by SW8015 Mod	Extracted:	04.21.2020 17:30	04.21.2020 17:30	04.21.2020 17:30			
	Analyzed:	04.21.2020 19:58	04.21.2020 20:39	04.21.2020 20:59			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<50.3 50.3	<50.3 50.3			
Diesel Range Organics (DRO)		<50.3 50.3	<50.3 50.3	<50.3 50.3			
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<50.3 50.3	<50.3 50.3			
Total GRO-DRO		<50.3 50.3	<50.3 50.3	<50.3 50.3			
Total TPH		<50.3 50.3	<50.3 50.3	<50.3 50.3			

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

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

Jessica Kramer
Project Manager



Certificate of Analytical Results 659424

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS03**
Lab Sample Id: 659424-001

Matrix: Soil
Date Collected: 04.21.2020 13:55

Date Received: 04.21.2020 16:36
Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3123702

Date Prep: 04.21.2020 17:00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1100	50.1	mg/kg	04.21.2020 19:09		5

Analytical Method: TPH by SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3123744

Date Prep: 04.21.2020 17:30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	04.21.2020 19:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	04.21.2020 19:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	04.21.2020 19:58	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	04.21.2020 19:58	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	04.21.2020 19:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	04.21.2020 19:58	
o-Terphenyl	84-15-1	125	%	70-135	04.21.2020 19:58	



Certificate of Analytical Results 659424

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS03**
Lab Sample Id: 659424-001

Matrix: Soil
Date Collected: 04.21.2020 13:55

Date Received: 04.21.2020 16:36
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.21.2020 18:00

Basis: Wet Weight

Seq Number: 3123697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.22.2020 00:59	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.22.2020 00:59	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.22.2020 00:59	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.22.2020 00:59	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.22.2020 00:59	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.22.2020 00:59	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.22.2020 00:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	94	%	70-130	04.22.2020 00:59		
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.22.2020 00:59		



Certificate of Analytical Results 659424

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS05**
Lab Sample Id: 659424-002

Matrix: Soil
Date Collected: 04.21.2020 14:00

Date Received: 04.21.2020 16:36
Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3123702

Date Prep: 04.21.2020 17:00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	435	49.7	mg/kg	04.21.2020 19:14		5

Analytical Method: TPH by SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3123744

Date Prep: 04.21.2020 17:30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	04.21.2020 20:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	04.21.2020 20:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	04.21.2020 20:39	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	04.21.2020 20:39	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	04.21.2020 20:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	04.21.2020 20:39	
o-Terphenyl	84-15-1	120	%	70-135	04.21.2020 20:39	



Certificate of Analytical Results 659424

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS05**
Lab Sample Id: 659424-002

Matrix: Soil
Date Collected: 04.21.2020 14:00

Date Received: 04.21.2020 16:36
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.21.2020 18:00

Basis: Wet Weight

Seq Number: 3123697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.22.2020 01:20	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.22.2020 01:20	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.22.2020 01:20	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.22.2020 01:20	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.22.2020 01:20	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.22.2020 01:20	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.22.2020 01:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.22.2020 01:20	
4-Bromofluorobenzene	460-00-4	97	%	70-130	04.22.2020 01:20	



Certificate of Analytical Results 659424

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS06**
Lab Sample Id: 659424-003

Matrix: Soil
Date Collected: 04.21.2020 14:00

Date Received: 04.21.2020 16:36
Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3123702

Date Prep: 04.21.2020 17:00

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	429	49.7	mg/kg	04.21.2020 19:20		5

Analytical Method: TPH by SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3123744

Date Prep: 04.21.2020 17:30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	04.21.2020 20:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	04.21.2020 20:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	04.21.2020 20:59	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	04.21.2020 20:59	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	04.21.2020 20:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	04.21.2020 20:59	
o-Terphenyl	84-15-1	123	%	70-135	04.21.2020 20:59	



Certificate of Analytical Results 659424

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS06**
Lab Sample Id: 659424-003

Matrix: Soil
Date Collected: 04.21.2020 14:00

Date Received: 04.21.2020 16:36
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.21.2020 18:00

Basis: Wet Weight

Seq Number: 3123697

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.22.2020 01:40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.22.2020 01:40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.22.2020 01:40	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	04.22.2020 01:40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.22.2020 01:40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.22.2020 01:40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.22.2020 01:40	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	04.22.2020 01:40		
1,4-Difluorobenzene	540-36-3	107	%	70-130	04.22.2020 01:40		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.

Nash 301 H

Analytical Method: Chloride by EPA 300

Seq Number: 3123702

MB Sample Id: 7701739-1-BLK

Matrix: Solid

LCS Sample Id: 7701739-1-BKS

Prep Method: E300P

Date Prep: 04.21.2020

LCSD Sample Id: 7701739-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	255	102	90-110	0	20	mg/kg	04.21.2020 16:41	

Analytical Method: Chloride by EPA 300

Seq Number: 3123702

Parent Sample Id: 659391-001

Matrix: Soil

MS Sample Id: 659391-001 S

Prep Method: E300P

Date Prep: 04.21.2020

MSD Sample Id: 659391-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	454	200	656	101	652	99	90-110	1	20	mg/kg	04.21.2020 16:58	

Analytical Method: Chloride by EPA 300

Seq Number: 3123702

Parent Sample Id: 659405-009

Matrix: Soil

MS Sample Id: 659405-009 S

Prep Method: E300P

Date Prep: 04.21.2020

MSD Sample Id: 659405-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	72.2	200	278	103	277	102	90-110	0	20	mg/kg	04.21.2020 18:14	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3123744

MB Sample Id: 7701768-1-BLK

Matrix: Solid

LCS Sample Id: 7701768-1-BKS

Prep Method: SW8015P

Date Prep: 04.21.2020

LCSD Sample Id: 7701768-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	853	85	862	86	70-135	1	35	mg/kg	04.21.2020 14:57	
Diesel Range Organics (DRO)	<50.0	1000	953	95	964	96	70-135	1	35	mg/kg	04.21.2020 14:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		114		113		70-135	%	04.21.2020 14:57
o-Terphenyl	111		113		113		70-135	%	04.21.2020 14:57

Analytical Method: TPH by SW8015 Mod

Seq Number: 3123744

Matrix: Solid

MB Sample Id: 7701768-1-BLK

Prep Method: SW8015P

Date Prep: 04.21.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	04.21.2020 14:36	

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

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

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

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



LT Environmental, Inc.

Nash 301 H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3123744

Parent Sample Id: 659295-002

Matrix: Soil

MS Sample Id: 659295-002 S

Prep Method: SW8015P

Date Prep: 04.21.2020

MSD Sample Id: 659295-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	919	92	942	94	70-135	2	35	mg/kg	04.21.2020 16:35	
Diesel Range Organics (DRO)	<50.2	1000	1040	104	1070	107	70-135	3	35	mg/kg	04.21.2020 16:35	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		124		70-135	%	04.21.2020 16:35
o-Terphenyl	122		125		70-135	%	04.21.2020 16:35

Analytical Method: BTEX by EPA 8021B

Seq Number: 3123697

MB Sample Id: 7701736-1-BLK

Matrix: Solid

LCS Sample Id: 7701736-1-BKS

Prep Method: SW5035A

Date Prep: 04.21.2020

LCSD Sample Id: 7701736-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.109	109	0.105	105	70-130	4	35	mg/kg	04.21.2020 16:50	
Toluene	<0.00200	0.100	0.104	104	0.0996	100	70-130	4	35	mg/kg	04.21.2020 16:50	
Ethylbenzene	<0.00200	0.100	0.0963	96	0.0925	93	71-129	4	35	mg/kg	04.21.2020 16:50	
m,p-Xylenes	<0.00400	0.200	0.196	98	0.189	95	70-135	4	35	mg/kg	04.21.2020 16:50	
o-Xylene	<0.00200	0.100	0.100	100	0.0968	97	71-133	3	35	mg/kg	04.21.2020 16:50	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		104		104		70-130	%	04.21.2020 16:50
4-Bromofluorobenzene	95		92		91		70-130	%	04.21.2020 16:50

Analytical Method: BTEX by EPA 8021B

Seq Number: 3123697

Parent Sample Id: 659391-001

Matrix: Soil

MS Sample Id: 659391-001 S

Prep Method: SW5035A

Date Prep: 04.21.2020

MSD Sample Id: 659391-001 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	0.0998	0.0997	100	0.103	103	70-130	3	35	mg/kg	04.21.2020 17:31	
Toluene	<0.00200	0.0998	0.0969	97	0.0999	100	70-130	3	35	mg/kg	04.21.2020 17:31	
Ethylbenzene	<0.00200	0.0998	0.0919	92	0.0938	94	71-129	2	35	mg/kg	04.21.2020 17:31	
m,p-Xylenes	<0.00399	0.200	0.190	95	0.193	97	70-135	2	35	mg/kg	04.21.2020 17:31	
o-Xylene	<0.00200	0.0998	0.0954	96	0.0965	97	71-133	1	35	mg/kg	04.21.2020 17:31	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		103		70-130	%	04.21.2020 17:31
4-Bromofluorobenzene	95		95		70-130	%	04.21.2020 17:31

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

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

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

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



Chain of Custody

Work Order No: 1059424

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

www.xenco.com

Page 1 of 1

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Little
Company Name:	LT Environmental	Company Name:	XTO
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	432-230-3849	Email:	N.Matheson@XTO.com, DMoir@XTO.com

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

Project Name:	Nash 301H	Turn Around	☐
Project Number:	012919210	Routine	☐
Project Location:	Eddy	Rush:	24hr
Sampler's Name:	Will Mather	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT	Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	3.5			Thermometer ID	TMM007	
Received Intact:	Yes	No			Correction Factor:	-0.2
Cooler Custody Seals:	Yes	No	N/A	Total Containers:		3

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Analysis Request	Preservative Codes
ES03		S	4/2/20	13:55	0.5'	1	BTEX	MeOH: Me
ES05				14:00		1	TPH	None: NO
ES06				14:00		1	CI-	HNO3: HN
								H2SO4: H2
								HCL: HL
								NaOH: Na
								Zn Acetate+ NaOH: Zn
								TAT starts the day received by the lab, if received by 4:00pm
								Sample Comments
								Composite

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/2/20 16:36			2
					4
					6



Analytical Report 659425

for

LT Environmental, Inc.

Project Manager: Dan Moir

Nash 301 H

012919216

04.23.2020

Collected By: Client

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

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



04.23.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **659425**

Nash 301 H

Project Address: Eddy

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659425. 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. 659425 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 659425

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	04.21.2020 13:10	0.5 ft	659425-001
FS02	S	04.21.2020 13:50	0.5 ft	659425-002
FS04	S	04.21.2020 13:56	0.5 ft	659425-003



CASE NARRATIVE

Client Name: *LT Environmental, Inc.*

Project Name: *Nash 301 H*

Project ID: 012919216
Work Order Number(s): 659425

Report Date: 04.23.2020
Date Received: 04.21.2020

Sample receipt non conformances and comments:

Samples received in bulk containers.

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 659425

LT Environmental, Inc., Arvada, CO

Project Name: Nash 301 H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Tue 04.21.2020 17:45

Report Date: 04.23.2020 11:42

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	659425-001	659425-002	659425-003			
	Field Id:	FS01	FS02	FS04			
	Depth:	0.5- ft	0.5- ft	0.5- ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	04.21.2020 13:10	04.21.2020 13:50	04.21.2020 13:56			
BTEX by EPA 8021B	Extracted:	04.21.2020 18:11	04.21.2020 18:11	04.21.2020 18:11			
	Analyzed:	04.22.2020 06:46	04.22.2020 07:07	04.22.2020 07:27			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200			
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200			
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200			
m,p-Xylenes		<0.00404 0.00404	<0.00401 0.00401	<0.00400 0.00400			
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200			
Total Xylenes		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200			
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200			
Chloride by EPA 300	Extracted:	*** ** *	*** ** *	*** ** *			
	Analyzed:	04.21.2020 20:47	04.21.2020 20:53	04.21.2020 20:58			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		480 49.8	231 49.8	283 50.0			
TPH by SW8015 Mod	Extracted:	04.21.2020 18:00	04.21.2020 18:00	04.22.2020 16:30			
	Analyzed:	04.21.2020 21:40	04.21.2020 22:00	04.22.2020 17:04			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.0 50.0	<50.3 50.3			
Diesel Range Organics (DRO)		<50.2 50.2	<50.0 50.0	<50.3 50.3			
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.0 50.0	<50.3 50.3			
Total GRO-DRO		<50.2 50.2	<50.0 50.0	<50.3 50.3			
Total TPH		<50.2 50.2	<50.0 50.0	<50.3 50.3			

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

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

Jessica Kramer
Project Manager



Certificate of Analytical Results 659425

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS01**
Lab Sample Id: 659425-001

Matrix: Soil
Date Collected: 04.21.2020 13:10

Date Received: 04.21.2020 17:45
Sample Depth: 0.5 ft

Analytical Method: Chloride by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3123703

Date Prep: 04.21.2020 17:21

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	480	49.8	mg/kg	04.21.2020 20:47		5

Analytical Method: TPH by SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3123744

Date Prep: 04.21.2020 18:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	04.21.2020 21:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	04.21.2020 21:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	04.21.2020 21:40	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	04.21.2020 21:40	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	04.21.2020 21:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	04.21.2020 21:40	
o-Terphenyl	84-15-1	119	%	70-135	04.21.2020 21:40	



Certificate of Analytical Results 659425

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS01**
Lab Sample Id: 659425-001

Matrix: Soil
Date Collected: 04.21.2020 13:10

Date Received: 04.21.2020 17:45
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.21.2020 18:11

Basis: Wet Weight

Seq Number: 3123699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.22.2020 06:46	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.22.2020 06:46	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.22.2020 06:46	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	04.22.2020 06:46	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.22.2020 06:46	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.22.2020 06:46	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.22.2020 06:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	04.22.2020 06:46	
4-Bromofluorobenzene	460-00-4	97	%	70-130	04.22.2020 06:46	



Certificate of Analytical Results 659425

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS02** Matrix: Soil Date Received: 04.21.2020 17:45
 Lab Sample Id: 659425-002 Date Collected: 04.21.2020 13:50 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.21.2020 17:21 Basis: Wet Weight
 Seq Number: 3123703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	231	49.8	mg/kg	04.21.2020 20:53		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.21.2020 18:00 Basis: Wet Weight
 Seq Number: 3123744

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.21.2020 22:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.21.2020 22:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.21.2020 22:00	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.21.2020 22:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.21.2020 22:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	04.21.2020 22:00	
o-Terphenyl	84-15-1	122	%	70-135	04.21.2020 22:00	



Certificate of Analytical Results 659425

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS02**
Lab Sample Id: 659425-002

Matrix: Soil
Date Collected: 04.21.2020 13:50

Date Received: 04.21.2020 17:45
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.21.2020 18:11

Basis: Wet Weight

Seq Number: 3123699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.22.2020 07:07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.22.2020 07:07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.22.2020 07:07	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	04.22.2020 07:07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.22.2020 07:07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.22.2020 07:07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.22.2020 07:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	04.22.2020 07:07		
4-Bromofluorobenzene	460-00-4	95	%	70-130	04.22.2020 07:07		



Certificate of Analytical Results 659425

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS04** Matrix: Soil Date Received: 04.21.2020 17:45
 Lab Sample Id: 659425-003 Date Collected: 04.21.2020 13:56 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.21.2020 17:21 Basis: Wet Weight
 Seq Number: 3123703

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	283	50.0	mg/kg	04.21.2020 20:58		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.22.2020 16:30 Basis: Wet Weight
 Seq Number: 3123877

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	04.22.2020 17:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	04.22.2020 17:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	04.22.2020 17:04	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	04.22.2020 17:04	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	04.22.2020 17:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	04.22.2020 17:04	
o-Terphenyl	84-15-1	122	%	70-135	04.22.2020 17:04	



Certificate of Analytical Results 659425

LT Environmental, Inc., Arvada, CO

Nash 301 H

Sample Id: **FS04**
Lab Sample Id: 659425-003

Matrix: Soil
Date Collected: 04.21.2020 13:56

Date Received: 04.21.2020 17:45
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.21.2020 18:11

Basis: Wet Weight

Seq Number: 3123699

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.22.2020 07:27	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.22.2020 07:27	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.22.2020 07:27	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.22.2020 07:27	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.22.2020 07:27	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.22.2020 07:27	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.22.2020 07:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	04.22.2020 07:27		
1,4-Difluorobenzene	540-36-3	107	%	70-130	04.22.2020 07:27		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.

Nash 301 H

Analytical Method: Chloride by EPA 300

Seq Number: 3123703

MB Sample Id: 7701741-1-BLK

Matrix: Solid

LCS Sample Id: 7701741-1-BKS

Prep Method: E300P

Date Prep: 04.21.2020

LCSD Sample Id: 7701741-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	255	102	90-110	0	20	mg/kg	04.21.2020 19:42	

Analytical Method: Chloride by EPA 300

Seq Number: 3123703

Parent Sample Id: 659422-001

Matrix: Soil

MS Sample Id: 659422-001 S

Prep Method: E300P

Date Prep: 04.21.2020

MSD Sample Id: 659422-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	56.1	200	263	103	261	102	90-110	1	20	mg/kg	04.21.2020 19:58	

Analytical Method: Chloride by EPA 300

Seq Number: 3123703

Parent Sample Id: 659426-002

Matrix: Soil

MS Sample Id: 659426-002 S

Prep Method: E300P

Date Prep: 04.21.2020

MSD Sample Id: 659426-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	387	200	584	99	582	98	90-110	0	20	mg/kg	04.21.2020 21:15	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3123744

MB Sample Id: 7701768-1-BLK

Matrix: Solid

LCS Sample Id: 7701768-1-BKS

Prep Method: SW8015P

Date Prep: 04.21.2020

LCSD Sample Id: 7701768-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	853	85	862	86	70-135	1	35	mg/kg	04.21.2020 14:57	
Diesel Range Organics (DRO)	<50.0	1000	953	95	964	96	70-135	1	35	mg/kg	04.21.2020 14:57	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		114		113		70-135	%	04.21.2020 14:57
o-Terphenyl	111		113		113		70-135	%	04.21.2020 14:57

Analytical Method: TPH by SW8015 Mod

Seq Number: 3123877

MB Sample Id: 7701870-1-BLK

Matrix: Solid

LCS Sample Id: 7701870-1-BKS

Prep Method: SW8015P

Date Prep: 04.22.2020

LCSD Sample Id: 7701870-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	896	90	707	71	70-135	24	35	mg/kg	04.22.2020 15:42	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	777	78	70-135	26	35	mg/kg	04.22.2020 15:42	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	78		117		89		70-135	%	04.22.2020 15:42
o-Terphenyl	83		101		76		70-135	%	04.22.2020 15:42

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

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

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

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



LT Environmental, Inc.

Nash 301 H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3123744

Matrix: Solid

Prep Method: SW8015P

Date Prep: 04.21.2020

MB Sample Id: 7701768-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB
Result

<50.0

Units

mg/kg

Analysis
Date

04.21.2020 14:36

Flag

Analytical Method: TPH by SW8015 Mod

Seq Number: 3123877

Matrix: Solid

Prep Method: SW8015P

Date Prep: 04.22.2020

MB Sample Id: 7701870-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB
Result

<50.0

Units

mg/kg

Analysis
Date

04.22.2020 13:30

Flag

Analytical Method: TPH by SW8015 Mod

Seq Number: 3123744

Matrix: Soil

Prep Method: SW8015P

Date Prep: 04.21.2020

Parent Sample Id: 659295-002

MS Sample Id: 659295-002 S

MSD Sample Id: 659295-002 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

Parent
Result

<50.2

Spike
Amount

1000

MS
Result

919

MS
%Rec

92

MSD
Result

942

MSD
%Rec

94

Limits

70-135

%RPD

2

RPD
Limit

35

Units

mg/kg

Analysis
Date

04.21.2020 16:35

Flag

Diesel Range Organics (DRO)

<50.2

1000

1040

104

1070

107

70-135

3

35

mg/kg

04.21.2020 16:35

Surrogate

1-Chlorooctane

MS
%Rec

121

MS
FlagMSD
%Rec

124

MSD
Flag

Limits

70-135

Units

%

Analysis
Date

04.21.2020 16:35

o-Terphenyl

122

125

70-135

%

04.21.2020 16:35

Analytical Method: TPH by SW8015 Mod

Seq Number: 3123877

Matrix: Soil

Prep Method: SW8015P

Date Prep: 04.22.2020

Parent Sample Id: 659425-003

MS Sample Id: 659425-003 S

MSD Sample Id: 659425-003 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

Parent
Result

<50.2

Spike
Amount

1000

MS
Result

876

MS
%Rec

88

MSD
Result

890

MSD
%Rec

89

Limits

70-135

%RPD

2

RPD
Limit

35

Units

mg/kg

Analysis
Date

04.22.2020 17:24

Flag

Diesel Range Organics (DRO)

<50.2

1000

970

97

988

99

70-135

2

35

mg/kg

04.22.2020 17:24

Surrogate

1-Chlorooctane

MS
%Rec

114

MS
FlagMSD
%Rec

114

MSD
Flag

Limits

70-135

Units

%

Analysis
Date

04.22.2020 17:24

o-Terphenyl

117

120

70-135

%

04.22.2020 17:24

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

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

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

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



LT Environmental, Inc.

Nash 301 H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3123699

MB Sample Id: 7701737-1-BLK

Matrix: Solid

LCS Sample Id: 7701737-1-BKS

Prep Method: SW5035A

Date Prep: 04.21.2020

LCSD Sample Id: 7701737-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.105	105	0.104	104	70-130	1	35	mg/kg	04.22.2020 03:02	
Toluene	<0.00200	0.100	0.0983	98	0.0980	98	70-130	0	35	mg/kg	04.22.2020 03:02	
Ethylbenzene	<0.00200	0.100	0.0921	92	0.0904	90	71-129	2	35	mg/kg	04.22.2020 03:02	
m,p-Xylenes	<0.00400	0.200	0.187	94	0.185	93	70-135	1	35	mg/kg	04.22.2020 03:02	
o-Xylene	<0.00200	0.100	0.0960	96	0.0951	95	71-133	1	35	mg/kg	04.22.2020 03:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		105		104		70-130	%	04.22.2020 03:02
4-Bromofluorobenzene	94		91		92		70-130	%	04.22.2020 03:02

Analytical Method: BTEX by EPA 8021B

Seq Number: 3123699

Parent Sample Id: 659422-005

Matrix: Soil

MS Sample Id: 659422-005 S

Prep Method: SW5035A

Date Prep: 04.21.2020

MSD Sample Id: 659422-005 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	0.0832	82	0.0898	89	70-130	8	35	mg/kg	04.22.2020 03:43	
Toluene	<0.00201	0.101	0.0748	74	0.0775	77	70-130	4	35	mg/kg	04.22.2020 03:43	
Ethylbenzene	<0.00201	0.101	0.0738	73	0.0795	79	71-129	7	35	mg/kg	04.22.2020 03:43	
m,p-Xylenes	<0.00402	0.201	0.148	74	0.159	79	70-135	7	35	mg/kg	04.22.2020 03:43	
o-Xylene	<0.00201	0.101	0.0774	77	0.0858	85	71-133	10	35	mg/kg	04.22.2020 03:43	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		104		70-130	%	04.22.2020 03:43
4-Bromofluorobenzene	95		91		70-130	%	04.22.2020 03:43

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

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

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

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



Chain of Custody

Work Order No:

1259425

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334

Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000 West Palm Beach, FL (561) 689-6766
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296 Crashead, NM (432) 704-5440

www.xenoco.com

Page 1 of 1

Project Manager:	Dan Mair	Bill to: (if different)	Kyle Littlell
Company Name:	LE Environmental	Company Name:	XTO
Address:	3300 North A. Street	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	
Phone:	432-236-3849	Email:	Mmair@leenv.com, DMair@leenv.com

Work Order Comments
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ State of Project: Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐ Deliverables: EDD ☐ ADAPT ☐ Other: _____

Project Name:	Nash 301H	Turn Around
Project Number:	012919216	☒
Project Location	Eddy	Rush:
Sampler's Name:	Will Mather	Due Date:
PO #:		Quote #:

ANALYSIS REQUEST										Preservative Codes
Pres. Code										MeOH; Me
										None; NO
										HNO ₃ ; HN
										H ₂ SO ₄ ; H ₂

SAMPLE RECEIPT		Temp Blank:		Thermometer ID		
	Temperature (°C):	Yes	No	Wet Ice:	Yes	No
Received Intact:	3.5	Yes	No			
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes	No	N/A	Total Containers:	3	

BIEX	HCL: HL
TPH	NaOH: Na
Cl ⁻	Zn Acetate+ NaOH: Zn
TAT starts the day received by the lab, if received by 4:00pm	

[illegible]

Total	200.7 / 6010	200.8 / 6020:
-------	--------------	---------------

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

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

TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U
 1631 / 245.1 / 7470 / 7471 : Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/21/20 16:36			2
					4
					6

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.21.2020 05.45.29 PM

Work Order #: 659425

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	3.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Elizabeth McClellan

Date: 04.21.2020

Checklist reviewed by:



Jessica Kramer

Date: 04.23.2020



Analytical Report 659919

for

LT Environmental, Inc.

Project Manager: Dan Moir

Nash Unit 301H

012919216

04.29.2020

Collected By: Client

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

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



04.29.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **659919**

Nash Unit 301H

Project Address: Eddy

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 659919. 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. 659919 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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



Sample Cross Reference 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS07	S	04.22.2020 10:05	0.5 ft	659919-001
FS08	S	04.22.2020 10:11	0.5 ft	659919-002
FS09	S	04.22.2020 10:13	0.5 ft	659919-003
FS10	S	04.22.2020 15:04	1 ft	659919-004
FS11	S	04.22.2020 10:18	0.5 ft	659919-005
FS12	S	04.22.2020 10:21	0.5 ft	659919-006
FS13	S	04.22.2020 10:23	0.5 ft	659919-007
FS14	S	04.22.2020 11:14	0.5 ft	659919-008
FS15	S	04.23.2020 10:06	1 ft	659919-009
FS16	S	04.22.2020 11:20	0.5 ft	659919-010
FS17	S	04.22.2020 11:23	0.5 ft	659919-011
FS18	S	04.23.2020 10:21	1 ft	659919-012
FS19	S	04.23.2020 10:37	1 ft	659919-013
FS20	S	04.27.2020 09:26	1.5 ft	659919-014
FS21	S	04.27.2020 09:29	1.5 ft	659919-015
FS22	S	04.27.2020 09:50	1.5 ft	659919-016
FS23	S	04.27.2020 09:52	1.5 ft	659919-017
FS24	S	04.27.2020 13:09	2 ft	659919-018
FS25	S	04.27.2020 10:46	1 ft	659919-019
FS26	S	04.23.2020 13:28	1 ft	659919-020
FS27	S	04.27.2020 12:48	2 ft	659919-021
FS28	S	04.27.2020 12:50	2 ft	659919-022
FS29	S	04.27.2020 12:52	2 ft	659919-023
FS30	S	04.27.2020 10:30	1.5 ft	659919-024
FS31	S	04.27.2020 14:24	3.5 ft	659919-025
FS32	S	04.23.2020 13:55	1 ft	659919-026
FS33	S	04.23.2020 13:56	1 ft	659919-027
FS34	S	04.27.2020 10:45	1.5 ft	659919-028
FS35	S	04.27.2020 10:46	1.5 ft	659919-029
FS36	S	04.27.2020 13:59	2 ft	659919-030
FS37	S	04.27.2020 13:23	1 ft	659919-031
FS38	S	04.27.2020 11:45	1.5 ft	659919-032
FS39	S	04.27.2020 11:48	1.5 ft	659919-033
FS40	S	04.27.2020 12:00	1.5 ft	659919-034
FS41	S	04.27.2020 12:02	1.5 ft	659919-035
FS42	S	04.27.2020 14:26	1.5 ft	659919-036
FS43	S	04.27.2020 12:25	1.5 ft	659919-037
FS44	S	04.27.2020 14:14	2.5 ft	659919-038
FS03A	S	04.22.2020 15:08	1 ft	659919-039



CASE NARRATIVE

Client Name: *LT Environmental, Inc.*

Project Name: *Nash Unit 301H*

Project ID: 012919216
Work Order Number(s): 659919

Report Date: 04.29.2020
Date Received: 04.28.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3124503 TPH by SW8015 Mod

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

Samples affected are: 659919-021 SD.



Certificate of Analysis Summary 659919

LT Environmental, Inc., Arvada, CO

Project Name: Nash Unit 301H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Tue 04.28.2020 09:10

Report Date: 04.29.2020 16:20

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	659919-001	659919-002	659919-003	659919-004	659919-005	659919-006
	<i>Field Id:</i>	FS07	FS08	FS09	FS10	FS11	FS12
	<i>Depth:</i>	0.5- ft	0.5- ft	0.5- ft	1- ft	0.5- ft	0.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	04.22.2020 10:05	04.22.2020 10:11	04.22.2020 10:13	04.22.2020 15:04	04.22.2020 10:18	04.22.2020 10:21
BTEX by EPA 8021B	<i>Extracted:</i>	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20
	<i>Analyzed:</i>	04.28.2020 13:17	04.28.2020 13:38	04.28.2020 14:00	04.28.2020 14:21	04.28.2020 14:43	04.28.2020 15:04
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00401 0.00401	<0.00398 0.00398	<0.00401 0.00401	<0.00399 0.00399	<0.00398 0.00398	<0.00401 0.00401
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total Xylenes		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25
	<i>Analyzed:</i>	04.28.2020 11:28	04.28.2020 11:44	04.28.2020 11:50	04.28.2020 11:55	04.28.2020 12:00	04.28.2020 12:23
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		195 49.9	241 50.0	263 49.9	231 50.4	681 49.4	668 49.5
TPH by SW8015 Mod	<i>Extracted:</i>	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30
	<i>Analyzed:</i>	04.28.2020 13:18	04.28.2020 14:20	04.28.2020 14:40	04.28.2020 15:52	04.28.2020 16:54	04.28.2020 17:14
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<49.9 49.9	<49.8 49.8	<49.7 49.7	<50.2 50.2	<50.2 50.2
Diesel Range Organics (DRO)		<49.8 49.8	<49.9 49.9	<49.8 49.8	<49.7 49.7	<50.2 50.2	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<49.9 49.9	<49.8 49.8	<49.7 49.7	<50.2 50.2	<50.2 50.2
Total GRO-DRO		<49.8 49.8	<49.9 49.9	<49.8 49.8	<49.7 49.7	<50.2 50.2	<50.2 50.2
Total TPH		<49.8 49.8	<49.9 49.9	<49.8 49.8	<49.7 49.7	<50.2 50.2	<50.2 50.2

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 659919

LT Environmental, Inc., Arvada, CO

Project Name: Nash Unit 301H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Tue 04.28.2020 09:10

Report Date: 04.29.2020 16:20

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	659919-007	659919-008	659919-009	659919-010	659919-011	659919-012
	<i>Field Id:</i>	FS13	FS14	FS15	FS16	FS17	FS18
	<i>Depth:</i>	0.5- ft	0.5- ft	1- ft	0.5- ft	0.5- ft	1- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	04.22.2020 10:23	04.22.2020 11:14	04.23.2020 10:06	04.22.2020 11:20	04.22.2020 11:23	04.23.2020 10:21
BTEX by EPA 8021B	<i>Extracted:</i>	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20
	<i>Analyzed:</i>	04.28.2020 15:25	04.28.2020 15:47	04.28.2020 16:08	04.28.2020 16:30	04.28.2020 17:34	04.28.2020 17:55
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
Toluene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
Ethylbenzene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
m,p-Xylenes		<0.00402 0.00402	<0.00399 0.00399	<0.00399 0.00399	<0.00398 0.00398	<0.00404 0.00404	<0.00402 0.00402
o-Xylene		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
Total Xylenes		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
Total BTEX		<0.00201 0.00201	<0.00200 0.00200	<0.00200 0.00200	<0.00199 0.00199	<0.00202 0.00202	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25
	<i>Analyzed:</i>	04.28.2020 12:28	04.28.2020 12:34	04.28.2020 12:39	04.28.2020 12:45	04.28.2020 12:50	04.28.2020 13:07
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		616 50.1	556 50.2	171 49.6	468 49.8	325 49.8	406 50.0
TPH by SW8015 Mod	<i>Extracted:</i>	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30
	<i>Analyzed:</i>	04.28.2020 17:35	04.28.2020 17:55	04.28.2020 18:16	04.28.2020 18:37	04.28.2020 19:18	04.28.2020 19:38
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<50.1 50.1	<49.9 49.9	<50.3 50.3	<50.0 50.0
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<50.1 50.1	<49.9 49.9	<50.3 50.3	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<50.1 50.1	<49.9 49.9	<50.3 50.3	<50.0 50.0
Total GRO-DRO		<50.0 50.0	<49.9 49.9	<50.1 50.1	<49.9 49.9	<50.3 50.3	<50.0 50.0
Total TPH		<50.0 50.0	<49.9 49.9	<50.1 50.1	<49.9 49.9	<50.3 50.3	<50.0 50.0

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 659919

LT Environmental, Inc., Arvada, CO

Project Name: Nash Unit 301H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Tue 04.28.2020 09:10

Report Date: 04.29.2020 16:20

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	659919-013	659919-014	659919-015	659919-016	659919-017	659919-018
	Field Id:	FS19	FS20	FS21	FS22	FS23	FS24
	Depth:	1- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft	2- ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	04.23.2020 10:37	04.27.2020 09:26	04.27.2020 09:29	04.27.2020 09:50	04.27.2020 09:52	04.27.2020 13:09
BTEX by EPA 8021B	Extracted:	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 10:20
	Analyzed:	04.28.2020 18:17	04.28.2020 18:38	04.28.2020 18:59	04.28.2020 19:21	04.28.2020 19:42	04.28.2020 20:03
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Benzene	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
	Toluene	<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00402 0.00402	<0.00404 0.00404	<0.00398 0.00398	<0.00399 0.00399	<0.00399 0.00399	<0.00402 0.00402
o-Xylene		<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00201 0.00201	<0.00202 0.00202	<0.00199 0.00199	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201
Chloride by EPA 300	Extracted:	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 10:25
	Analyzed:	04.28.2020 13:12	04.28.2020 16:34	04.28.2020 13:34	04.28.2020 13:40	04.28.2020 13:45	04.28.2020 13:51
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Chloride	696 50.2	38.8 10.0	79.2 50.5	118 49.9	237 50.4	293 49.4
TPH by SW8015 Mod	Extracted:	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30
	Analyzed:	04.28.2020 19:59	04.28.2020 20:19	04.28.2020 20:40	04.28.2020 21:00	04.28.2020 21:21	04.28.2020 21:41
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
	Gasoline Range Hydrocarbons (GRO)	<50.2 50.2	<50.3 50.3	<49.8 49.8	<50.1 50.1	<50.0 50.0	<50.2 50.2
	Diesel Range Organics (DRO)	<50.2 50.2	<50.3 50.3	<49.8 49.8	<50.1 50.1	<50.0 50.0	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.3 50.3	<49.8 49.8	<50.1 50.1	<50.0 50.0	<50.2 50.2
Total GRO-DRO		<50.2 50.2	<50.3 50.3	<49.8 49.8	<50.1 50.1	<50.0 50.0	<50.2 50.2
Total TPH		<50.2 50.2	<50.3 50.3	<49.8 49.8	<50.1 50.1	<50.0 50.0	<50.2 50.2

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 659919

LT Environmental, Inc., Arvada, CO

Project Name: Nash Unit 301H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Tue 04.28.2020 09:10

Report Date: 04.29.2020 16:20

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	659919-019	659919-020	659919-021	659919-022	659919-023	659919-024
	<i>Field Id:</i>	FS25	FS26	FS27	FS28	FS29	FS30
	<i>Depth:</i>	1- ft	1- ft	2- ft	2- ft	2- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	04.27.2020 10:46	04.23.2020 13:28	04.27.2020 12:48	04.27.2020 12:50	04.27.2020 12:52	04.27.2020 10:30
BTEX by EPA 8021B	<i>Extracted:</i>	04.28.2020 10:20	04.28.2020 10:20	04.28.2020 14:00	04.28.2020 14:00	04.28.2020 14:00	04.28.2020 14:00
	<i>Analyzed:</i>	04.28.2020 20:25	04.28.2020 20:46	04.28.2020 17:17	04.28.2020 17:37	04.28.2020 17:57	04.28.2020 18:18
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Toluene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Ethylbenzene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
m,p-Xylenes		<0.00402 0.00402	<0.00403 0.00403	<0.00399 0.00399	<0.00401 0.00401	<0.00400 0.00400	<0.00399 0.00399
o-Xylene		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total Xylenes		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Total BTEX		<0.00201 0.00201	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	04.28.2020 10:25	04.28.2020 10:25	04.28.2020 11:27	04.28.2020 11:27	04.28.2020 11:27	04.28.2020 11:27
	<i>Analyzed:</i>	04.28.2020 13:56	04.28.2020 14:02	04.28.2020 15:45	04.28.2020 16:23	04.28.2020 16:29	04.28.2020 16:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		949 50.5	220 50.2	<9.96 9.96	33.7 10.0	39.4 9.98	1130 49.9
TPH by SW8015 Mod	<i>Extracted:</i>	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30
	<i>Analyzed:</i>	04.28.2020 22:02	04.28.2020 22:22	04.28.2020 13:18	04.29.2020 10:58	04.29.2020 11:18	04.28.2020 16:33
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1
Diesel Range Organics (DRO)		<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1
Total GRO-DRO		<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1
Total TPH		<50.2 50.2	<50.1 50.1	<50.0 50.0	<50.0 50.0	<50.0 50.0	<50.1 50.1

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 659919

LT Environmental, Inc., Arvada, CO

Project Name: Nash Unit 301H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Tue 04.28.2020 09:10

Report Date: 04.29.2020 16:20

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	659919-025	659919-026	659919-027	659919-028	659919-029	659919-030
	<i>Field Id:</i>	FS31	FS32	FS33	FS34	FS35	FS36
	<i>Depth:</i>	3.5- ft	1- ft	1- ft	1.5- ft	1.5- ft	2- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	04.27.2020 14:24	04.23.2020 13:55	04.23.2020 13:56	04.27.2020 10:45	04.27.2020 10:46	04.27.2020 13:59
BTEX by EPA 8021B	<i>Extracted:</i>	04.28.2020 14:00	04.28.2020 14:00	04.28.2020 14:00	04.28.2020 14:00	04.28.2020 14:00	04.28.2020 14:00
	<i>Analyzed:</i>	04.28.2020 18:38	04.28.2020 18:58	04.28.2020 19:19	04.28.2020 19:39	04.28.2020 20:00	04.28.2020 20:20
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00398 0.00398	<0.00402 0.00402	<0.00400 0.00400	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Total Xylenes		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	04.28.2020 11:27	04.28.2020 11:27	04.28.2020 11:27	04.28.2020 11:27	04.28.2020 11:27	04.28.2020 11:27
	<i>Analyzed:</i>	04.28.2020 16:18	04.28.2020 16:51	04.28.2020 16:56	04.28.2020 17:02	04.28.2020 17:07	04.28.2020 17:13
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		787 49.8	525 49.9	419 49.8	349 49.9	719 49.9	1170 50.4
TPH by SW8015 Mod	<i>Extracted:</i>	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30
	<i>Analyzed:</i>	04.28.2020 16:54	04.28.2020 17:14	04.28.2020 17:35	04.28.2020 17:55	04.28.2020 18:16	04.28.2020 18:37
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.1 50.1	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.8 49.8	<50.2 50.2
Diesel Range Organics (DRO)		<50.1 50.1	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.8 49.8	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<50.1 50.1	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.8 49.8	<50.2 50.2
Total GRO-DRO		<50.1 50.1	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.8 49.8	<50.2 50.2
Total TPH		<50.1 50.1	<50.0 50.0	<50.0 50.0	<49.8 49.8	<49.8 49.8	<50.2 50.2

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 659919

LT Environmental, Inc., Arvada, CO

Project Name: Nash Unit 301H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Tue 04.28.2020 09:10

Report Date: 04.29.2020 16:20

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	659919-031	659919-032	659919-033	659919-034	659919-035	659919-036
	<i>Field Id:</i>	FS37	FS38	FS39	FS40	FS41	FS42
	<i>Depth:</i>	1- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft	1.5- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	04.27.2020 13:23	04.27.2020 11:45	04.27.2020 11:48	04.27.2020 12:00	04.27.2020 12:02	04.27.2020 14:26
BTEX by EPA 8021B	<i>Extracted:</i>	04.28.2020 14:00	04.28.2020 14:00	04.28.2020 14:00	04.28.2020 14:00	04.28.2020 14:00	04.28.2020 14:00
	<i>Analyzed:</i>	04.28.2020 21:21	04.28.2020 21:42	04.28.2020 22:02	04.28.2020 22:22	04.28.2020 22:43	04.28.2020 23:03
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201
Toluene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201
Ethylbenzene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201
m,p-Xylenes		<0.00404 0.00404	<0.00402 0.00402	<0.00402 0.00402	<0.00398 0.00398	<0.00402 0.00402	<0.00402 0.00402
o-Xylene		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201
Total Xylenes		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201
Total BTEX		<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00199 0.00199	<0.00201 0.00201	<0.00201 0.00201
Chloride by EPA 300	<i>Extracted:</i>	04.28.2020 11:27	04.28.2020 11:27	04.28.2020 11:27	04.28.2020 11:27	04.28.2020 11:27	04.28.2020 11:27
	<i>Analyzed:</i>	04.28.2020 17:18	04.28.2020 17:35	04.28.2020 17:40	04.28.2020 17:56	04.28.2020 18:02	04.28.2020 18:07
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		1730 99.6	159 9.96	822 49.9	286 49.8	333 49.9	342 49.8
TPH by SW8015 Mod	<i>Extracted:</i>	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30	04.28.2020 12:30
	<i>Analyzed:</i>	04.28.2020 20:40	04.28.2020 21:00	04.28.2020 21:21	04.28.2020 21:41	04.28.2020 22:02	04.28.2020 22:22
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.3 50.3	<50.0 50.0	<50.2 50.2	<49.9 49.9	<50.1 50.1	<50.0 50.0
Diesel Range Organics (DRO)		<50.3 50.3	<50.0 50.0	<50.2 50.2	<49.9 49.9	<50.1 50.1	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<50.3 50.3	<50.0 50.0	<50.2 50.2	<49.9 49.9	<50.1 50.1	<50.0 50.0
Total GRO-DRO		<50.3 50.3	<50.0 50.0	<50.2 50.2	<49.9 49.9	<50.1 50.1	<50.0 50.0
Total TPH		<50.3 50.3	<50.0 50.0	<50.2 50.2	<49.9 49.9	<50.1 50.1	<50.0 50.0

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 659919

LT Environmental, Inc., Arvada, CO

Project Name: Nash Unit 301H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Tue 04.28.2020 09:10

Report Date: 04.29.2020 16:20

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	659919-037	659919-038	659919-039			
	Field Id:	FS43	FS44	FS03A			
	Depth:	1.5- ft	2.5- ft	1- ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	04.27.2020 12:25	04.27.2020 14:14	04.22.2020 15:08			
BTEX by EPA 8021B	Extracted:	04.28.2020 14:00	04.28.2020 14:00	04.28.2020 14:00			
	Analyzed:	04.28.2020 23:24	04.28.2020 23:44	04.29.2020 00:04			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201			
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201			
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201			
m,p-Xylenes		<0.00398 0.00398	<0.00399 0.00399	<0.00402 0.00402			
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201			
Total Xylenes		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201			
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00201 0.00201			
Chloride by EPA 300	Extracted:	04.28.2020 11:27	04.28.2020 11:27	04.28.2020 11:27			
	Analyzed:	04.28.2020 18:13	04.28.2020 18:18	04.28.2020 18:24			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		622 49.6	270 49.4	304 49.8			
TPH by SW8015 Mod	Extracted:	04.28.2020 17:30	04.28.2020 17:30	04.28.2020 17:30			
	Analyzed:	04.29.2020 00:04	04.29.2020 01:05	04.29.2020 01:26			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.1 50.1			
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.1 50.1			
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.1 50.1			
Total GRO-DRO		<50.0 50.0	<50.0 50.0	<50.1 50.1			
Total TPH		<50.0 50.0	<50.0 50.0	<50.1 50.1			

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

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

Jessica Kramer
Project Manager



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS07** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-001 Date Collected: 04.22.2020 10:05 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	195	49.9	mg/kg	04.28.2020 11:28		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.28.2020 13:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.28.2020 13:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.28.2020 13:18	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	04.28.2020 13:18	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.28.2020 13:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	04.28.2020 13:18	
o-Terphenyl	84-15-1	107	%	70-135	04.28.2020 13:18	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS07**
Lab Sample Id: 659919-001

Matrix: Soil
Date Collected: 04.22.2020 10:05

Date Received: 04.28.2020 09:10
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 13:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 13:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 13:17	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	04.28.2020 13:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 13:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 13:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 13:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	117	%	70-130	04.28.2020 13:17		
4-Bromofluorobenzene	460-00-4	112	%	70-130	04.28.2020 13:17		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS08** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-002 Date Collected: 04.22.2020 10:11 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	241	50.0	mg/kg	04.28.2020 11:44		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.28.2020 14:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.28.2020 14:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.28.2020 14:20	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	04.28.2020 14:20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.28.2020 14:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	04.28.2020 14:20	
o-Terphenyl	84-15-1	104	%	70-135	04.28.2020 14:20	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS08**
Lab Sample Id: 659919-002

Matrix: Soil
Date Collected: 04.22.2020 10:11

Date Received: 04.28.2020 09:10
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3124446

Prep Method: SW5035A

% Moisture:

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.28.2020 13:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.28.2020 13:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.28.2020 13:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.28.2020 13:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.28.2020 13:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.28.2020 13:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.28.2020 13:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	116	%	70-130	04.28.2020 13:38		
4-Bromofluorobenzene	460-00-4	105	%	70-130	04.28.2020 13:38		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS09** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-003 Date Collected: 04.22.2020 10:13 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	263	49.9	mg/kg	04.28.2020 11:50		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.28.2020 14:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.28.2020 14:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.28.2020 14:40	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	04.28.2020 14:40	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.28.2020 14:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	04.28.2020 14:40	
o-Terphenyl	84-15-1	106	%	70-135	04.28.2020 14:40	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS09**
Lab Sample Id: 659919-003

Matrix: Soil
Date Collected: 04.22.2020 10:13

Date Received: 04.28.2020 09:10
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3124446

Prep Method: SW5035A

% Moisture:

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 14:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 14:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 14:00	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	04.28.2020 14:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 14:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 14:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 14:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	114	%	70-130	04.28.2020 14:00		
4-Bromofluorobenzene	460-00-4	104	%	70-130	04.28.2020 14:00		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS10** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-004 Date Collected: 04.22.2020 15:04 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	231	50.4	mg/kg	04.28.2020 11:55		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.7	49.7	mg/kg	04.28.2020 15:52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.7	49.7	mg/kg	04.28.2020 15:52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.7	49.7	mg/kg	04.28.2020 15:52	U	1
Total GRO-DRO	PHC628	<49.7	49.7	mg/kg	04.28.2020 15:52	U	1
Total TPH	PHC635	<49.7	49.7	mg/kg	04.28.2020 15:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	04.28.2020 15:52	
o-Terphenyl	84-15-1	106	%	70-135	04.28.2020 15:52	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS10**
Lab Sample Id: 659919-004

Matrix: Soil
Date Collected: 04.22.2020 15:04

Date Received: 04.28.2020 09:10
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 14:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 14:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 14:21	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.28.2020 14:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 14:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 14:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 14:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	04.28.2020 14:21		
1,4-Difluorobenzene	540-36-3	115	%	70-130	04.28.2020 14:21		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS11** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-005 Date Collected: 04.22.2020 10:18 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	681	49.4	mg/kg	04.28.2020 12:00		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	04.28.2020 16:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	04.28.2020 16:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	04.28.2020 16:54	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	04.28.2020 16:54	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	04.28.2020 16:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	04.28.2020 16:54	
o-Terphenyl	84-15-1	100	%	70-135	04.28.2020 16:54	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS11**
Lab Sample Id: 659919-005

Matrix: Soil
Date Collected: 04.22.2020 10:18

Date Received: 04.28.2020 09:10
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.28.2020 14:43	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.28.2020 14:43	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.28.2020 14:43	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.28.2020 14:43	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.28.2020 14:43	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.28.2020 14:43	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.28.2020 14:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	04.28.2020 14:43		
1,4-Difluorobenzene	540-36-3	117	%	70-130	04.28.2020 14:43		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS12** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-006 Date Collected: 04.22.2020 10:21 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	668	49.5	mg/kg	04.28.2020 12:23		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	04.28.2020 17:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	04.28.2020 17:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	04.28.2020 17:14	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	04.28.2020 17:14	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	04.28.2020 17:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	04.28.2020 17:14	
o-Terphenyl	84-15-1	97	%	70-135	04.28.2020 17:14	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS12**
Lab Sample Id: 659919-006

Matrix: Soil
Date Collected: 04.22.2020 10:21

Date Received: 04.28.2020 09:10
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 15:04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 15:04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 15:04	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	04.28.2020 15:04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 15:04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 15:04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 15:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	04.28.2020 15:04		
1,4-Difluorobenzene	540-36-3	116	%	70-130	04.28.2020 15:04		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS13** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-007 Date Collected: 04.22.2020 10:23 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	616	50.1	mg/kg	04.28.2020 12:28		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.28.2020 17:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.28.2020 17:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.28.2020 17:35	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.28.2020 17:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.28.2020 17:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	04.28.2020 17:35	
o-Terphenyl	84-15-1	94	%	70-135	04.28.2020 17:35	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS13**
Lab Sample Id: 659919-007

Matrix: Soil
Date Collected: 04.22.2020 10:23

Date Received: 04.28.2020 09:10
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3124446

Prep Method: SW5035A

% Moisture:

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.28.2020 15:25	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.28.2020 15:25	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.28.2020 15:25	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.28.2020 15:25	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.28.2020 15:25	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.28.2020 15:25	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.28.2020 15:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	04.28.2020 15:25		
1,4-Difluorobenzene	540-36-3	115	%	70-130	04.28.2020 15:25		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS14** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-008 Date Collected: 04.22.2020 11:14 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	556	50.2	mg/kg	04.28.2020 12:34		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.28.2020 17:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.28.2020 17:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.28.2020 17:55	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	04.28.2020 17:55	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.28.2020 17:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	04.28.2020 17:55	
o-Terphenyl	84-15-1	93	%	70-135	04.28.2020 17:55	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS14**
Lab Sample Id: 659919-008

Matrix: Soil
Date Collected: 04.22.2020 11:14

Date Received: 04.28.2020 09:10
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 15:47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 15:47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 15:47	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.28.2020 15:47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 15:47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 15:47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 15:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	115	%	70-130	04.28.2020 15:47	
4-Bromofluorobenzene	460-00-4	105	%	70-130	04.28.2020 15:47	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS15** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-009 Date Collected: 04.23.2020 10:06 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	171	49.6	mg/kg	04.28.2020 12:39		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	04.28.2020 18:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	04.28.2020 18:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	04.28.2020 18:16	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	04.28.2020 18:16	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	04.28.2020 18:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	88	%	70-135	04.28.2020 18:16	
o-Terphenyl	84-15-1	93	%	70-135	04.28.2020 18:16	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS15**
Lab Sample Id: 659919-009

Matrix: Soil
Date Collected: 04.23.2020 10:06

Date Received: 04.28.2020 09:10
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3124446

Prep Method: SW5035A

% Moisture:

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 16:08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 16:08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 16:08	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.28.2020 16:08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 16:08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 16:08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 16:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	114	%	70-130	04.28.2020 16:08		
4-Bromofluorobenzene	460-00-4	112	%	70-130	04.28.2020 16:08		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS16** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-010 Date Collected: 04.22.2020 11:20 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	468	49.8	mg/kg	04.28.2020 12:45		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.28.2020 18:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.28.2020 18:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.28.2020 18:37	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	04.28.2020 18:37	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.28.2020 18:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	04.28.2020 18:37	
o-Terphenyl	84-15-1	98	%	70-135	04.28.2020 18:37	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS16**
Lab Sample Id: 659919-010

Matrix: Soil
Date Collected: 04.22.2020 11:20

Date Received: 04.28.2020 09:10
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.28.2020 16:30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.28.2020 16:30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.28.2020 16:30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.28.2020 16:30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.28.2020 16:30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.28.2020 16:30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.28.2020 16:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	114	%	70-130	04.28.2020 16:30		
4-Bromofluorobenzene	460-00-4	103	%	70-130	04.28.2020 16:30		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS17** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-011 Date Collected: 04.22.2020 11:23 Sample Depth: 0.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	325	49.8	mg/kg	04.28.2020 12:50		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	04.28.2020 19:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	04.28.2020 19:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	04.28.2020 19:18	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	04.28.2020 19:18	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	04.28.2020 19:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-135	04.28.2020 19:18	
o-Terphenyl	84-15-1	98	%	70-135	04.28.2020 19:18	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS17**
Lab Sample Id: 659919-011

Matrix: Soil
Date Collected: 04.22.2020 11:23

Date Received: 04.28.2020 09:10
Sample Depth: 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.28.2020 17:34	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.28.2020 17:34	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.28.2020 17:34	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	04.28.2020 17:34	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.28.2020 17:34	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.28.2020 17:34	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.28.2020 17:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	04.28.2020 17:34		
1,4-Difluorobenzene	540-36-3	115	%	70-130	04.28.2020 17:34		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS18** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-012 Date Collected: 04.23.2020 10:21 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	406	50.0	mg/kg	04.28.2020 13:07		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.28.2020 19:38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.28.2020 19:38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.28.2020 19:38	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.28.2020 19:38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.28.2020 19:38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	04.28.2020 19:38	
o-Terphenyl	84-15-1	96	%	70-135	04.28.2020 19:38	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS18**
Lab Sample Id: 659919-012

Matrix: Soil
Date Collected: 04.23.2020 10:21

Date Received: 04.28.2020 09:10
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.28.2020 17:55	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.28.2020 17:55	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.28.2020 17:55	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.28.2020 17:55	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.28.2020 17:55	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.28.2020 17:55	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.28.2020 17:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	04.28.2020 17:55	
1,4-Difluorobenzene	540-36-3	116	%	70-130	04.28.2020 17:55	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS19** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-013 Date Collected: 04.23.2020 10:37 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	696	50.2	mg/kg	04.28.2020 13:12		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	04.28.2020 19:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	04.28.2020 19:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	04.28.2020 19:59	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	04.28.2020 19:59	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	04.28.2020 19:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	04.28.2020 19:59	
o-Terphenyl	84-15-1	96	%	70-135	04.28.2020 19:59	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS19**
Lab Sample Id: 659919-013

Matrix: Soil
Date Collected: 04.23.2020 10:37

Date Received: 04.28.2020 09:10
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.28.2020 18:17	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.28.2020 18:17	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.28.2020 18:17	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.28.2020 18:17	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.28.2020 18:17	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.28.2020 18:17	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.28.2020 18:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	105	%	70-130	04.28.2020 18:17		
1,4-Difluorobenzene	540-36-3	115	%	70-130	04.28.2020 18:17		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS20** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-014 Date Collected: 04.27.2020 09:26 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	38.8	10.0	mg/kg	04.28.2020 16:34		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	04.28.2020 20:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	04.28.2020 20:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	04.28.2020 20:19	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	04.28.2020 20:19	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	04.28.2020 20:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	04.28.2020 20:19	
o-Terphenyl	84-15-1	101	%	70-135	04.28.2020 20:19	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS20**
Lab Sample Id: 659919-014

Matrix: Soil
Date Collected: 04.27.2020 09:26

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.28.2020 18:38	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.28.2020 18:38	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.28.2020 18:38	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	04.28.2020 18:38	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.28.2020 18:38	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.28.2020 18:38	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.28.2020 18:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	04.28.2020 18:38		
1,4-Difluorobenzene	540-36-3	114	%	70-130	04.28.2020 18:38		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS21** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-015 Date Collected: 04.27.2020 09:29 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	79.2	50.5	mg/kg	04.28.2020 13:34		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.28.2020 20:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.28.2020 20:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.28.2020 20:40	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	04.28.2020 20:40	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.28.2020 20:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	04.28.2020 20:40	
o-Terphenyl	84-15-1	103	%	70-135	04.28.2020 20:40	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS21**
Lab Sample Id: 659919-015

Matrix: Soil
Date Collected: 04.27.2020 09:29

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3124446

Prep Method: SW5035A

% Moisture:

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.28.2020 18:59	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.28.2020 18:59	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.28.2020 18:59	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.28.2020 18:59	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.28.2020 18:59	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.28.2020 18:59	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.28.2020 18:59	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	109	%	70-130	04.28.2020 18:59		
4-Bromofluorobenzene	460-00-4	99	%	70-130	04.28.2020 18:59		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS22** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-016 Date Collected: 04.27.2020 09:50 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	118	49.9	mg/kg	04.28.2020 13:40		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	04.28.2020 21:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	04.28.2020 21:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	04.28.2020 21:00	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	04.28.2020 21:00	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	04.28.2020 21:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	04.28.2020 21:00	
o-Terphenyl	84-15-1	100	%	70-135	04.28.2020 21:00	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS22**
Lab Sample Id: 659919-016

Matrix: Soil
Date Collected: 04.27.2020 09:50

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 19:21	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 19:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 19:21	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.28.2020 19:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 19:21	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 19:21	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 19:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	109	%	70-130	04.28.2020 19:21		
1,4-Difluorobenzene	540-36-3	116	%	70-130	04.28.2020 19:21		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS23** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-017 Date Collected: 04.27.2020 09:52 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	237	50.4	mg/kg	04.28.2020 13:45		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.28.2020 21:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.28.2020 21:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.28.2020 21:21	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.28.2020 21:21	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.28.2020 21:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	04.28.2020 21:21	
o-Terphenyl	84-15-1	102	%	70-135	04.28.2020 21:21	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS23**
Lab Sample Id: 659919-017

Matrix: Soil
Date Collected: 04.27.2020 09:52

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 19:42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 19:42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 19:42	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.28.2020 19:42	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 19:42	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 19:42	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 19:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	116	%	70-130	04.28.2020 19:42		
4-Bromofluorobenzene	460-00-4	113	%	70-130	04.28.2020 19:42		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS24** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-018 Date Collected: 04.27.2020 13:09 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	293	49.4	mg/kg	04.28.2020 13:51		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	04.28.2020 21:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	04.28.2020 21:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	04.28.2020 21:41	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	04.28.2020 21:41	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	04.28.2020 21:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-135	04.28.2020 21:41	
o-Terphenyl	84-15-1	103	%	70-135	04.28.2020 21:41	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS24**
Lab Sample Id: 659919-018

Matrix: Soil
Date Collected: 04.27.2020 13:09

Date Received: 04.28.2020 09:10
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3124446

Prep Method: SW5035A

% Moisture:

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.28.2020 20:03	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.28.2020 20:03	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.28.2020 20:03	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.28.2020 20:03	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.28.2020 20:03	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.28.2020 20:03	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.28.2020 20:03	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	04.28.2020 20:03		
1,4-Difluorobenzene	540-36-3	109	%	70-130	04.28.2020 20:03		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS25** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-019 Date Collected: 04.27.2020 10:46 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	949	50.5	mg/kg	04.28.2020 13:56		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	04.28.2020 22:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	04.28.2020 22:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	04.28.2020 22:02	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	04.28.2020 22:02	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	04.28.2020 22:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	04.28.2020 22:02	
o-Terphenyl	84-15-1	98	%	70-135	04.28.2020 22:02	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS25**
Lab Sample Id: 659919-019

Matrix: Soil
Date Collected: 04.27.2020 10:46

Date Received: 04.28.2020 09:10
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.28.2020 20:25	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.28.2020 20:25	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.28.2020 20:25	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.28.2020 20:25	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.28.2020 20:25	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.28.2020 20:25	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.28.2020 20:25	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	110	%	70-130	04.28.2020 20:25		
1,4-Difluorobenzene	540-36-3	116	%	70-130	04.28.2020 20:25		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS26** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-020 Date Collected: 04.23.2020 13:28 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 10:25 Basis: Wet Weight
 Seq Number: 3124453

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	220	50.2	mg/kg	04.28.2020 14:02		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124468

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	04.28.2020 22:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	04.28.2020 22:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	04.28.2020 22:22	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	04.28.2020 22:22	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	04.28.2020 22:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	04.28.2020 22:22	
o-Terphenyl	84-15-1	101	%	70-135	04.28.2020 22:22	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS26**
Lab Sample Id: 659919-020

Matrix: Soil
Date Collected: 04.23.2020 13:28

Date Received: 04.28.2020 09:10
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 10:20

Basis: Wet Weight

Seq Number: 3124446

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.28.2020 20:46	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.28.2020 20:46	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.28.2020 20:46	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	04.28.2020 20:46	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.28.2020 20:46	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.28.2020 20:46	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.28.2020 20:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	116	%	70-130	04.28.2020 20:46	
4-Bromofluorobenzene	460-00-4	105	%	70-130	04.28.2020 20:46	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS27** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-021 Date Collected: 04.27.2020 12:48 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.96	9.96	mg/kg	04.28.2020 15:45	U	1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.28.2020 13:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.28.2020 13:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.28.2020 13:18	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.28.2020 13:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.28.2020 13:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	04.28.2020 13:18	
o-Terphenyl	84-15-1	102	%	70-135	04.28.2020 13:18	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS27**
Lab Sample Id: 659919-021

Matrix: Soil
Date Collected: 04.27.2020 12:48

Date Received: 04.28.2020 09:10
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3124447

Prep Method: SW5035A

% Moisture:

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 17:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 17:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 17:17	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.28.2020 17:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 17:17	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 17:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 17:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	04.28.2020 17:17		
4-Bromofluorobenzene	460-00-4	97	%	70-130	04.28.2020 17:17		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS28** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-022 Date Collected: 04.27.2020 12:50 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	33.7	10.0	mg/kg	04.28.2020 16:23		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.29.2020 10:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.29.2020 10:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.29.2020 10:58	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.29.2020 10:58	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.29.2020 10:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	04.29.2020 10:58	
o-Terphenyl	84-15-1	117	%	70-135	04.29.2020 10:58	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS28**
Lab Sample Id: 659919-022

Matrix: Soil
Date Collected: 04.27.2020 12:50

Date Received: 04.28.2020 09:10
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 17:37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 17:37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 17:37	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	04.28.2020 17:37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 17:37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 17:37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 17:37	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	04.28.2020 17:37		
1,4-Difluorobenzene	540-36-3	107	%	70-130	04.28.2020 17:37		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS29** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-023 Date Collected: 04.27.2020 12:52 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	39.4	9.98	mg/kg	04.28.2020 16:29		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.29.2020 11:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.29.2020 11:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.29.2020 11:18	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.29.2020 11:18	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.29.2020 11:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	04.29.2020 11:18	
o-Terphenyl	84-15-1	114	%	70-135	04.29.2020 11:18	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS29**
Lab Sample Id: 659919-023

Matrix: Soil
Date Collected: 04.27.2020 12:52

Date Received: 04.28.2020 09:10
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 17:57	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 17:57	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 17:57	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.28.2020 17:57	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 17:57	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 17:57	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 17:57	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	04.28.2020 17:57		
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.28.2020 17:57		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS30** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-024 Date Collected: 04.27.2020 10:30 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1130	49.9	mg/kg	04.28.2020 16:12		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	04.28.2020 16:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	04.28.2020 16:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	04.28.2020 16:33	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	04.28.2020 16:33	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	04.28.2020 16:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	04.28.2020 16:33	
o-Terphenyl	84-15-1	88	%	70-135	04.28.2020 16:33	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS30**
Lab Sample Id: 659919-024

Matrix: Soil
Date Collected: 04.27.2020 10:30

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 18:18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 18:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 18:18	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.28.2020 18:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 18:18	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 18:18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 18:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	04.28.2020 18:18		
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.28.2020 18:18		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS31** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-025 Date Collected: 04.27.2020 14:24 Sample Depth: 3.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	787	49.8	mg/kg	04.28.2020 16:18		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	04.28.2020 16:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	04.28.2020 16:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	04.28.2020 16:54	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	04.28.2020 16:54	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	04.28.2020 16:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	04.28.2020 16:54	
o-Terphenyl	84-15-1	90	%	70-135	04.28.2020 16:54	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS31**
Lab Sample Id: 659919-025

Matrix: Soil
Date Collected: 04.27.2020 14:24

Date Received: 04.28.2020 09:10
Sample Depth: 3.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.28.2020 18:38	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.28.2020 18:38	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.28.2020 18:38	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.28.2020 18:38	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.28.2020 18:38	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.28.2020 18:38	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.28.2020 18:38	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	04.28.2020 18:38		
4-Bromofluorobenzene	460-00-4	97	%	70-130	04.28.2020 18:38		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS32** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-026 Date Collected: 04.23.2020 13:55 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	525	49.9	mg/kg	04.28.2020 16:51		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.28.2020 17:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.28.2020 17:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.28.2020 17:14	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.28.2020 17:14	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.28.2020 17:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	04.28.2020 17:14	
o-Terphenyl	84-15-1	90	%	70-135	04.28.2020 17:14	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS32**
Lab Sample Id: 659919-026

Matrix: Soil
Date Collected: 04.23.2020 13:55

Date Received: 04.28.2020 09:10
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3124447

Prep Method: SW5035A

% Moisture:

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	04.28.2020 18:58	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	04.28.2020 18:58	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	04.28.2020 18:58	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	04.28.2020 18:58	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	04.28.2020 18:58	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	04.28.2020 18:58	U	1
Total BTEX		<0.00198	0.00198	mg/kg	04.28.2020 18:58	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	04.28.2020 18:58		
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.28.2020 18:58		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS33** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-027 Date Collected: 04.23.2020 13:56 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	419	49.8	mg/kg	04.28.2020 16:56		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.28.2020 17:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.28.2020 17:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.28.2020 17:35	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.28.2020 17:35	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.28.2020 17:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	04.28.2020 17:35	
o-Terphenyl	84-15-1	94	%	70-135	04.28.2020 17:35	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS33**
Lab Sample Id: 659919-027

Matrix: Soil
Date Collected: 04.23.2020 13:56

Date Received: 04.28.2020 09:10
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.28.2020 19:19	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.28.2020 19:19	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.28.2020 19:19	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.28.2020 19:19	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.28.2020 19:19	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.28.2020 19:19	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.28.2020 19:19	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	04.28.2020 19:19		
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.28.2020 19:19		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS34** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-028 Date Collected: 04.27.2020 10:45 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	349	49.9	mg/kg	04.28.2020 17:02		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.28.2020 17:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.28.2020 17:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.28.2020 17:55	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	04.28.2020 17:55	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.28.2020 17:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	04.28.2020 17:55	
o-Terphenyl	84-15-1	88	%	70-135	04.28.2020 17:55	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS34**
Lab Sample Id: 659919-028

Matrix: Soil
Date Collected: 04.27.2020 10:45

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.28.2020 19:39	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.28.2020 19:39	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.28.2020 19:39	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.28.2020 19:39	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.28.2020 19:39	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.28.2020 19:39	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.28.2020 19:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	99	%	70-130	04.28.2020 19:39		
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.28.2020 19:39		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: FS35 Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-029 Date Collected: 04.27.2020 10:46 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	719	49.9	mg/kg	04.28.2020 17:07		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	04.28.2020 18:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	04.28.2020 18:16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	04.28.2020 18:16	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	04.28.2020 18:16	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	04.28.2020 18:16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	04.28.2020 18:16	
o-Terphenyl	84-15-1	89	%	70-135	04.28.2020 18:16	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: FS35
Lab Sample Id: 659919-029

Matrix: Soil
Date Collected: 04.27.2020 10:46

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3124447

Prep Method: SW5035A

% Moisture:

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 20:00	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 20:00	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 20:00	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	04.28.2020 20:00	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 20:00	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 20:00	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 20:00	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.28.2020 20:00		
4-Bromofluorobenzene	460-00-4	100	%	70-130	04.28.2020 20:00		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS36** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-030 Date Collected: 04.27.2020 13:59 Sample Depth: 2 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1170	50.4	mg/kg	04.28.2020 17:13		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	04.28.2020 18:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	04.28.2020 18:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	04.28.2020 18:37	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	04.28.2020 18:37	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	04.28.2020 18:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	04.28.2020 18:37	
o-Terphenyl	84-15-1	93	%	70-135	04.28.2020 18:37	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS36**
Lab Sample Id: 659919-030

Matrix: Soil
Date Collected: 04.27.2020 13:59

Date Received: 04.28.2020 09:10
Sample Depth: 2 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.28.2020 20:20	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.28.2020 20:20	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.28.2020 20:20	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.28.2020 20:20	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.28.2020 20:20	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.28.2020 20:20	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.28.2020 20:20	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.28.2020 20:20		
4-Bromofluorobenzene	460-00-4	97	%	70-130	04.28.2020 20:20		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS37** Matrix: **Soil** Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-031 Date Collected: 04.27.2020 13:23 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: **MAB** % Moisture:
 Analyst: **MAB** Date Prep: 04.28.2020 11:27 Basis: **Wet Weight**
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1730	99.6	mg/kg	04.28.2020 17:18		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: **DTH** % Moisture:
 Analyst: **DTH** Date Prep: 04.28.2020 12:30 Basis: **Wet Weight**
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	04.28.2020 20:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	04.28.2020 20:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	04.28.2020 20:40	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	04.28.2020 20:40	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	04.28.2020 20:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	04.28.2020 20:40	
o-Terphenyl	84-15-1	107	%	70-135	04.28.2020 20:40	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS37**
Lab Sample Id: 659919-031

Matrix: Soil
Date Collected: 04.27.2020 13:23

Date Received: 04.28.2020 09:10
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	04.28.2020 21:21	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	04.28.2020 21:21	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	04.28.2020 21:21	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	04.28.2020 21:21	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	04.28.2020 21:21	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	04.28.2020 21:21	U	1
Total BTEX		<0.00202	0.00202	mg/kg	04.28.2020 21:21	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	96	%	70-130	04.28.2020 21:21		
4-Bromofluorobenzene	460-00-4	101	%	70-130	04.28.2020 21:21		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS38** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-032 Date Collected: 04.27.2020 11:45 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	159	9.96	mg/kg	04.28.2020 17:35		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.28.2020 21:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.28.2020 21:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.28.2020 21:00	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.28.2020 21:00	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.28.2020 21:00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	04.28.2020 21:00	
o-Terphenyl	84-15-1	104	%	70-135	04.28.2020 21:00	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS38**
Lab Sample Id: 659919-032

Matrix: Soil
Date Collected: 04.27.2020 11:45

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3124447

Prep Method: SW5035A

% Moisture:

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.28.2020 21:42	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.28.2020 21:42	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.28.2020 21:42	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.28.2020 21:42	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.28.2020 21:42	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.28.2020 21:42	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.28.2020 21:42	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.28.2020 21:42		
4-Bromofluorobenzene	460-00-4	102	%	70-130	04.28.2020 21:42		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS39** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-033 Date Collected: 04.27.2020 11:48 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	822	49.9	mg/kg	04.28.2020 17:40		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	04.28.2020 21:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	04.28.2020 21:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	04.28.2020 21:21	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	04.28.2020 21:21	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	04.28.2020 21:21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	04.28.2020 21:21	
o-Terphenyl	84-15-1	113	%	70-135	04.28.2020 21:21	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS39**
Lab Sample Id: 659919-033

Matrix: Soil
Date Collected: 04.27.2020 11:48

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.28.2020 22:02	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.28.2020 22:02	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.28.2020 22:02	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.28.2020 22:02	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.28.2020 22:02	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.28.2020 22:02	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.28.2020 22:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.28.2020 22:02	
4-Bromofluorobenzene	460-00-4	99	%	70-130	04.28.2020 22:02	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS40** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-034 Date Collected: 04.27.2020 12:00 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	286	49.8	mg/kg	04.28.2020 17:56		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	04.28.2020 21:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	04.28.2020 21:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	04.28.2020 21:41	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	04.28.2020 21:41	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	04.28.2020 21:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	04.28.2020 21:41	
o-Terphenyl	84-15-1	96	%	70-135	04.28.2020 21:41	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS40**
Lab Sample Id: 659919-034

Matrix: Soil
Date Collected: 04.27.2020 12:00

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.28.2020 22:22	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.28.2020 22:22	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.28.2020 22:22	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.28.2020 22:22	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.28.2020 22:22	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.28.2020 22:22	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.28.2020 22:22	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	04.28.2020 22:22		
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.28.2020 22:22		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS41** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-035 Date Collected: 04.27.2020 12:02 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	333	49.9	mg/kg	04.28.2020 18:02		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	04.28.2020 22:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	04.28.2020 22:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	04.28.2020 22:02	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	04.28.2020 22:02	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	04.28.2020 22:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	04.28.2020 22:02	
o-Terphenyl	84-15-1	100	%	70-135	04.28.2020 22:02	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS41**
Lab Sample Id: 659919-035

Matrix: Soil
Date Collected: 04.27.2020 12:02

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.28.2020 22:43	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.28.2020 22:43	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.28.2020 22:43	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.28.2020 22:43	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.28.2020 22:43	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.28.2020 22:43	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.28.2020 22:43	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	97	%	70-130	04.28.2020 22:43		
1,4-Difluorobenzene	540-36-3	108	%	70-130	04.28.2020 22:43		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS42** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-036 Date Collected: 04.27.2020 14:26 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	342	49.8	mg/kg	04.28.2020 18:07		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 12:30 Basis: Wet Weight
 Seq Number: 3124503

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.28.2020 22:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.28.2020 22:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.28.2020 22:22	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.28.2020 22:22	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.28.2020 22:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	04.28.2020 22:22	
o-Terphenyl	84-15-1	101	%	70-135	04.28.2020 22:22	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS42**
Lab Sample Id: 659919-036

Matrix: Soil
Date Collected: 04.27.2020 14:26

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.28.2020 23:03	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.28.2020 23:03	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.28.2020 23:03	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.28.2020 23:03	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.28.2020 23:03	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.28.2020 23:03	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.28.2020 23:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.28.2020 23:03	
4-Bromofluorobenzene	460-00-4	98	%	70-130	04.28.2020 23:03	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS43** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-037 Date Collected: 04.27.2020 12:25 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	622	49.6	mg/kg	04.28.2020 18:13		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 17:30 Basis: Wet Weight
 Seq Number: 3124494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.29.2020 00:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.29.2020 00:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.29.2020 00:04	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.29.2020 00:04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.29.2020 00:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	04.29.2020 00:04	
o-Terphenyl	84-15-1	109	%	70-135	04.29.2020 00:04	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS43**
Lab Sample Id: 659919-037

Matrix: Soil
Date Collected: 04.27.2020 12:25

Date Received: 04.28.2020 09:10
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	04.28.2020 23:24	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	04.28.2020 23:24	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	04.28.2020 23:24	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	04.28.2020 23:24	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	04.28.2020 23:24	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	04.28.2020 23:24	U	1
Total BTEX		<0.00199	0.00199	mg/kg	04.28.2020 23:24	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	04.28.2020 23:24		
1,4-Difluorobenzene	540-36-3	107	%	70-130	04.28.2020 23:24		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS44** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-038 Date Collected: 04.27.2020 14:14 Sample Depth: 2.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	270	49.4	mg/kg	04.28.2020 18:18		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 17:30 Basis: Wet Weight
 Seq Number: 3124494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	04.29.2020 01:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	04.29.2020 01:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	04.29.2020 01:05	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	04.29.2020 01:05	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	04.29.2020 01:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-135	04.29.2020 01:05	
o-Terphenyl	84-15-1	100	%	70-135	04.29.2020 01:05	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS44**
Lab Sample Id: 659919-038

Matrix: Soil
Date Collected: 04.27.2020 14:14

Date Received: 04.28.2020 09:10
Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3124447

Prep Method: SW5035A

% Moisture:

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	04.28.2020 23:44	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	04.28.2020 23:44	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	04.28.2020 23:44	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	04.28.2020 23:44	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	04.28.2020 23:44	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	04.28.2020 23:44	U	1
Total BTEX		<0.00200	0.00200	mg/kg	04.28.2020 23:44	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	04.28.2020 23:44		
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.28.2020 23:44		



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS03A** Matrix: Soil Date Received: 04.28.2020 09:10
 Lab Sample Id: 659919-039 Date Collected: 04.22.2020 15:08 Sample Depth: 1 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 04.28.2020 11:27 Basis: Wet Weight
 Seq Number: 3124454

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	304	49.8	mg/kg	04.28.2020 18:24		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 04.28.2020 17:30 Basis: Wet Weight
 Seq Number: 3124494

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	04.29.2020 01:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	04.29.2020 01:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	04.29.2020 01:26	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	04.29.2020 01:26	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	04.29.2020 01:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	04.29.2020 01:26	
o-Terphenyl	84-15-1	102	%	70-135	04.29.2020 01:26	



Certificate of Analytical Results 659919

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS03A**
Lab Sample Id: 659919-039

Matrix: Soil
Date Collected: 04.22.2020 15:08

Date Received: 04.28.2020 09:10
Sample Depth: 1 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 04.28.2020 14:00

Basis: Wet Weight

Seq Number: 3124447

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	04.29.2020 00:04	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	04.29.2020 00:04	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	04.29.2020 00:04	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	04.29.2020 00:04	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	04.29.2020 00:04	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	04.29.2020 00:04	U	1
Total BTEX		<0.00201	0.00201	mg/kg	04.29.2020 00:04	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	98	%	70-130	04.29.2020 00:04		
1,4-Difluorobenzene	540-36-3	106	%	70-130	04.29.2020 00:04		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.
Nash Unit 301H

Analytical Method: Chloride by EPA 300

Seq Number: 3124453

MB Sample Id: 7702233-1-BLK

Matrix: Solid

LCS Sample Id: 7702233-1-BKS

Prep Method: E300P

Date Prep: 04.28.2020

LCSD Sample Id: 7702233-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	253	101	253	101	90-110	0	20	mg/kg	04.28.2020 11:17	

Analytical Method: Chloride by EPA 300

Seq Number: 3124454

MB Sample Id: 7702234-1-BLK

Matrix: Solid

LCS Sample Id: 7702234-1-BKS

Prep Method: E300P

Date Prep: 04.28.2020

LCSD Sample Id: 7702234-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	254	102	255	102	90-110	0	20	mg/kg	04.28.2020 15:15	

Analytical Method: Chloride by EPA 300

Seq Number: 3124453

Parent Sample Id: 659919-001

Matrix: Soil

MS Sample Id: 659919-001 S

Prep Method: E300P

Date Prep: 04.28.2020

MSD Sample Id: 659919-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	195	200	383	94	392	99	90-110	2	20	mg/kg	04.28.2020 11:33	

Analytical Method: Chloride by EPA 300

Seq Number: 3124453

Parent Sample Id: 659919-011

Matrix: Soil

MS Sample Id: 659919-011 S

Prep Method: E300P

Date Prep: 04.28.2020

MSD Sample Id: 659919-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	325	197	542	110	541	109	90-110	0	20	mg/kg	04.28.2020 12:56	

Analytical Method: Chloride by EPA 300

Seq Number: 3124454

Parent Sample Id: 659919-021

Matrix: Soil

MS Sample Id: 659919-021 S

Prep Method: E300P

Date Prep: 04.28.2020

MSD Sample Id: 659919-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<9.98	200	203	102	209	105	90-110	3	20	mg/kg	04.28.2020 15:50	

Analytical Method: Chloride by EPA 300

Seq Number: 3124454

Parent Sample Id: 659919-031

Matrix: Soil

MS Sample Id: 659919-031 S

Prep Method: E300P

Date Prep: 04.28.2020

MSD Sample Id: 659919-031 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1730	202	1920	94	1920	94	90-110	0	20	mg/kg	04.28.2020 17:24	

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

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

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

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



LT Environmental, Inc.

Nash Unit 301H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3124468

MB Sample Id: 7702287-1-BLK

Matrix: Solid

LCS Sample Id: 7702287-1-BKS

Prep Method: SW8015P

Date Prep: 04.28.2020

LCSD Sample Id: 7702287-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	974	97	984	98	70-135	1	35	mg/kg	04.28.2020 12:38	
Diesel Range Organics (DRO)	<50.0	1000	1110	111	1120	112	70-135	1	35	mg/kg	04.28.2020 12:38	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag		LCSD %Rec	LCSD Flag		Limits	Units	Analysis Date	
1-Chlorooctane	131		127			126			70-135	%	04.28.2020 12:38	
o-Terphenyl	129		125			128			70-135	%	04.28.2020 12:38	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3124503

MB Sample Id: 7702299-1-BLK

Matrix: Solid

LCS Sample Id: 7702299-1-BKS

Prep Method: SW8015P

Date Prep: 04.28.2020

LCSD Sample Id: 7702299-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	933	93	878	88	70-135	6	35	mg/kg	04.28.2020 12:38	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	978	98	70-135	5	35	mg/kg	04.28.2020 12:38	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date	Flag		
1-Chlorooctane	121		130		127		70-135	%	04.28.2020 12:38			
o-Terphenyl	130		132		130		70-135	%	04.28.2020 12:38			

Analytical Method: TPH by SW8015 Mod

Seq Number: 3124494

MB Sample Id: 7702304-1-BLK

Matrix: Solid

LCS Sample Id: 7702304-1-BKS

Prep Method: SW8015P

Date Prep: 04.28.2020

LCSD Sample Id: 7702304-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	975	98	937	94	70-135	4	35	mg/kg	04.28.2020 23:23	
Diesel Range Organics (DRO)	<50.0	1000	1080	108	1070	107	70-135	1	35	mg/kg	04.28.2020 23:23	
Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag		LCSD %Rec	LCSD Flag		Limits	Units	Analysis Date	
1-Chlorooctane	132		127			131			70-135	%	04.28.2020 23:23	
o-Terphenyl	123		122			128			70-135	%	04.28.2020 23:23	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3124468

Matrix: Solid
MB Sample Id: 7702287-1-BLK

Prep Method: SW8015P

Date Prep: 04.28.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	04.28.2020 12:17	

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

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

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

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



LT Environmental, Inc.

Nash Unit 301H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3124503

Matrix: Solid

Prep Method: SW8015P

Date Prep: 04.28.2020

MB Sample Id: 7702299-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB
Result

<50.0

Units

mg/kg

Analysis
Date

04.28.2020 12:17

Flag

Analytical Method: TPH by SW8015 Mod

Seq Number: 3124494

Matrix: Solid

Prep Method: SW8015P

Date Prep: 04.28.2020

MB Sample Id: 7702304-1-BLK

Parameter

Motor Oil Range Hydrocarbons (MRO)

MB
Result

<50.0

Units

mg/kg

Analysis
Date

04.28.2020 23:03

Flag

Analytical Method: TPH by SW8015 Mod

Seq Number: 3124468

Matrix: Soil

Prep Method: SW8015P

Date Prep: 04.28.2020

Parent Sample Id: 659919-001

MS Sample Id: 659919-001 S

MSD Sample Id: 659919-001 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

Parent
Result

<50.0

Spike
Amount

999

MS
Result

927

MS
%Rec

93

MSD
Result

872

MSD
%Rec

87

Limits

70-135

%RPD

6

RPD
Limit

35

Units

mg/kg

Analysis
Date

04.28.2020 13:39

Flag

Diesel Range Organics (DRO)

<50.0

999

1040

104

967

97

70-135

7

35

mg/kg

04.28.2020 13:39

Surrogate

1-Chlorooctane

MS
%Rec

118

MS
FlagMSD
%Rec

107

MSD
Flag

Limits

70-135

Units

%

Analysis
Date

04.28.2020 13:39

o-Terphenyl

121

110

70-135

%

04.28.2020 13:39

Analytical Method: TPH by SW8015 Mod

Seq Number: 3124503

Matrix: Soil

Prep Method: SW8015P

Date Prep: 04.28.2020

Parent Sample Id: 659919-021

MS Sample Id: 659919-021 S

MSD Sample Id: 659919-021 SD

Parameter

Gasoline Range Hydrocarbons (GRO)

Parent
Result

<50.2

Spike
Amount

1000

MS
Result

956

MS
%Rec

96

MSD
Result

1110

MSD
%Rec

111

Limits

70-135

%RPD

15

RPD
Limit

35

Units

mg/kg

Analysis
Date

04.28.2020 16:33

Flag

Diesel Range Organics (DRO)

<50.2

1000

1080

108

1160

116

70-135

7

35

mg/kg

04.28.2020 16:33

Surrogate

1-Chlorooctane

MS
%Rec

125

MS
FlagMSD
%Rec

132

MSD
Flag

Limits

70-135

Units

%

Analysis
Date

04.28.2020 16:33

o-Terphenyl

121

137

**

70-135

%

04.28.2020 16:33

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

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

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

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



LT Environmental, Inc.
Nash Unit 301H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3124494

Parent Sample Id: 659919-037

Matrix: Soil

MS Sample Id: 659919-037 S

Prep Method: SW8015P

Date Prep: 04.28.2020

MSD Sample Id: 659919-037 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	879	88	905	90	70-135	3	35	mg/kg	04.29.2020 00:25	
Diesel Range Organics (DRO)	<50.0	1000	968	97	977	97	70-135	1	35	mg/kg	04.29.2020 00:25	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	122		112		70-135	%	04.29.2020 00:25
o-Terphenyl	119		111		70-135	%	04.29.2020 00:25

Analytical Method: BTEX by EPA 8021B

Seq Number: 3124446

MB Sample Id: 7702229-1-BLK

Matrix: Solid

LCS Sample Id: 7702229-1-BKS

Prep Method: SW5035A

Date Prep: 04.28.2020

LCSD Sample Id: 7702229-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.122	122	0.113	113	70-130	8	35	mg/kg	04.28.2020 11:30	
Toluene	<0.00200	0.100	0.110	110	0.101	101	70-130	9	35	mg/kg	04.28.2020 11:30	
Ethylbenzene	<0.00200	0.100	0.102	102	0.0944	94	71-129	8	35	mg/kg	04.28.2020 11:30	
m,p-Xylenes	<0.00400	0.200	0.199	100	0.184	92	70-135	8	35	mg/kg	04.28.2020 11:30	
o-Xylene	<0.00200	0.100	0.103	103	0.0951	95	71-133	8	35	mg/kg	04.28.2020 11:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	115		108		108		70-130	%	04.28.2020 11:30
4-Bromofluorobenzene	104		95		98		70-130	%	04.28.2020 11:30

Analytical Method: BTEX by EPA 8021B

Seq Number: 3124447

MB Sample Id: 7702272-1-BLK

Matrix: Solid

LCS Sample Id: 7702272-1-BKS

Prep Method: SW5035A

Date Prep: 04.28.2020

LCSD Sample Id: 7702272-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.107	107	0.109	109	70-130	2	35	mg/kg	04.28.2020 15:35	
Toluene	<0.00200	0.100	0.101	101	0.101	101	70-130	0	35	mg/kg	04.28.2020 15:35	
Ethylbenzene	<0.00200	0.100	0.0923	92	0.0933	93	71-129	1	35	mg/kg	04.28.2020 15:35	
m,p-Xylenes	<0.00400	0.200	0.188	94	0.189	95	70-135	1	35	mg/kg	04.28.2020 15:35	
o-Xylene	<0.00200	0.100	0.0971	97	0.0977	98	71-133	1	35	mg/kg	04.28.2020 15:35	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		103		105		70-130	%	04.28.2020 15:35
4-Bromofluorobenzene	98		92		92		70-130	%	04.28.2020 15:35

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

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

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

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



LT Environmental, Inc.

Nash Unit 301H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3124446

Parent Sample Id: 659919-001

Matrix: Soil

MS Sample Id: 659919-001 S

Prep Method: SW5035A

Date Prep: 04.28.2020

MSD Sample Id: 659919-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.115	115	0.118	117	70-130	3	35	mg/kg	04.28.2020 12:13	
Toluene	<0.00199	0.0996	0.101	101	0.105	104	70-130	4	35	mg/kg	04.28.2020 12:13	
Ethylbenzene	<0.00199	0.0996	0.0940	94	0.0971	96	71-129	3	35	mg/kg	04.28.2020 12:13	
m,p-Xylenes	<0.00398	0.199	0.183	92	0.188	94	70-135	3	35	mg/kg	04.28.2020 12:13	
o-Xylene	<0.00199	0.0996	0.0958	96	0.0973	96	71-133	2	35	mg/kg	04.28.2020 12:13	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		109		70-130	%	04.28.2020 12:13
4-Bromofluorobenzene	99		98		70-130	%	04.28.2020 12:13

Analytical Method: BTEX by EPA 8021B

Seq Number: 3124447

Parent Sample Id: 659919-021

Matrix: Soil

MS Sample Id: 659919-021 S

Prep Method: SW5035A

Date Prep: 04.28.2020

MSD Sample Id: 659919-021 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	0.0921	92	0.104	104	70-130	12	35	mg/kg	04.28.2020 16:15	
Toluene	<0.00200	0.100	0.0842	84	0.0976	98	70-130	15	35	mg/kg	04.28.2020 16:15	
Ethylbenzene	<0.00200	0.100	0.0739	74	0.0908	91	71-129	21	35	mg/kg	04.28.2020 16:15	
m,p-Xylenes	<0.00401	0.200	0.151	76	0.187	94	70-135	21	35	mg/kg	04.28.2020 16:15	
o-Xylene	<0.00200	0.100	0.0766	77	0.0948	95	71-133	21	35	mg/kg	04.28.2020 16:15	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		105		70-130	%	04.28.2020 16:15
4-Bromofluorobenzene	96		93		70-130	%	04.28.2020 16:15

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

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

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

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



Chain of Custody

Work Order No:

05 9919

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296

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

www.xenco.com

Page 1 of 1

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

Work Order Comments			
Program: UST/PST	☐ RP	☐ Growfields	☒ RC ☐ perfund
State of Project:			
Reporting: Level II	☐ Level III	☐ PST/UST	☐ RP ☐ Level IV
Deliverables: EDD	☐ ADAPT	Other:	

Project Name:		Nash Unit 301H			Turn Around		ANALYSIS REQUEST												Work Order Notes									
Project Number:		012919216			Routine																							
P.O. Number:		Eddy			Rush:																							
Sampler's Name:		William Mather			Due Date:																							
SAMPLE RECEIPT					Temp Blank:		Yes		No		Wet Ice:		Yes		No													
Temperature (°C):					1.8						Thermometer ID																	
Received Intact:					Yes		No						+NMD07															
Cooler Custody Seals:					Yes		No		N/A		Correction Factor:		-0.2															
Sample Custody Seals:					Yes		No		N/A		Total Containers:		39															
Sample Identification					Matrix		Date Sampled		Time Sampled		Depth		Number of Containers															
FS07					S		4/22/2020		10:05		0.5'		1												composite			
FS08					S		4/22/2020		10:11		0.5'		1												composite			
FS09					S		4/22/2020		10:13		0.5'		1												composite			
FS10					S		4/22/2020		10:24		1'		1												composite			
FS11					S		4/22/2020		10:18		0.5'		1												composite			
FS12					S		4/22/2020		10:21		0.5'		1												composite			
FS13					S		4/22/2020		10:23		0.5'		1												composite			
FS14					S		4/22/2020		11:14		0.5'		1												composite			
FS15					S		4/23/2020		10:06		1'		1												composite			
FS16					S		4/22/2020		11:20		0.5'		1												composite			

of service, Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg					
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.					
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/12/12 15:00pm			4/28/20 09:10



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

Chain of Custody

Work Order No: 1659919

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Litrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	ymather@lternv.com, dimoir@lternv.com
Project Name:	Nash Unit 301H	Turn Around	
Project Number:	0 12919216	Routine	☒
P.O. Number:	Eddy	Rush:	
Sampler's Name:	William Mather	Due Date:	

Project Name:	Nasn Unit 307H	Turn Around		Work Order Notes																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Project Number:	0 12919216	Routine	R																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
P.O. Number:	Eddy	Rush:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
Sampler's Name:	William Mather	Due Date:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
SAMPLE RECEIPT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Temperature (°C):	Temp Blank:	Yes	No	Well log:	Yes	No																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Received Inact:	Yes	No		Thermometer ID																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Cooler Custody Seals:	Yes	No	N/A	Correction Factor:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Sample Custody Seals:	Yes	No	N/A	Total Containers:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Number of Containers																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
FS17	S		4/22/2020	11:23	0.5'	1	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	1631 / 245.1 / 7470 / 7471 : Hg	
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)
		4/28/20 18:00	
		4/28/20 09:10	



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

Chain of Custody

Work Order No: 1059919

Project Manager: Dan Moir

Bill to: (if different) Kyle Littlell

Company Name: LT Environmental, Inc., Permian office

Company Name: XTO Energy

Address: 3300 North A Street

Address:

City, State ZIP: Midland, Tx 79705

City, State ZIP:

Phone: (432) 236-3849

Email: wmather@lenv.com dmoir@lenv.com

Project Name: Nash Unit 301H

Turn Around

Project Number: 012919216

Routine

P.O. Number: Eddy

Rush:

Sampler's Name: William Mather

Due Date:

SAMPLE RECEIPT

Temp Blank: Yes No Wet Ice: Yes No

Temperature (°C):

Thermometer ID

Received Intact: Yes No

Correction Factor:

Cooler Custody Seal: Yes No N/A

Total Containers:

Sample Custody Seals: Yes No N/A

Total Containers:

Sample Identification

Matrix

Date Sampled

Time Sampled

Depth

Number of Containers

TPH (EPA 8015)

BTEX (EPA 0-8021)

Chloride (EPA 300.0)

ANALYSIS REQUEST

Work Order Notes

Sample Comments

FS27

S

4/27/2020

12:48

2'

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

FS28

S

4/27/2020

12:50

2'

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

FS29

S

4/27/2020

12:52

2'

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

FS30

S

4/27/2020

10:30

1.5'

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

FS31

S

4/27/2020

14:24

3.5'

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

FS32

S

4/23/2020

13:55

1'

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

FS33

S

4/23/2020

13:56

1'

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

FS34

S

4/27/2020

10:45

1.5'

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

FS35

S

4/27/2020

10:46

1.5'

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

FS36

S

4/27/2020

13:59

2'

1

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Total 200.7 / 6010

200.8 / 6020:

8RCRA 13PPM Texas 11

A1 Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

1631 / 245.1 / 7470 / 7471 : Hg

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

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



Chain of Custody

Work Order No: 459919

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

www.xenco.com

Page 4 of 14

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

Program: UST/PT	☐ RP	☐ Crownfields	☐ RC	☐ Superfund
State of Project:				
Reporting Level II	☐ Level III	☐ ST/UST	☐ RP	☐ Level IV
Deliverables: EDD	☐ ADAPT	☐ Other:		

Project Name:	Nash Unit 301H	Turn Around		ANALYSIS REQUEST	Work Order Notes			
Project Number:	012919216	Routine						
P.O. Number:	Eddy	Rush:						
Sampler's Name:	William Mather	Due Date:						
SAMPLE RECEIPT								
Temperature (°C):		Temp Blank:	Yes	No	Wet Ice:	Yes	No	
Received Intact:	Yes	Thermometer ID						
Cooler Custody Seals:	Yes	Correction Factor:						
Sample Custody Seals:	Yes	No	N/A	Total Containers:				
Sample Identification								
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)
FS37	S	4/27/2020	13:23	1'	1	X	X	X
FS38	S	4/27/2020	11:45	1.5'	1	X	X	X
FS39	S	4/27/2020	11:48	1.5'	1	X	X	X
FS40	S	4/27/2020	12:00	1.5'	1	X	X	X
FS41	S	4/27/2020	12:02	1.5'	1	X	X	X
FS42	S	4/27/2020	14:26	1.5'	1	X	X	X
FS43	S	4/27/2020	12:25	1.5'	1	X	X	X
FS44	S	4/27/2020	14:14	2.5'	1	X	X	X
FS03A	S	4/22/2020	15:08	1'	1	X	X	X
Total 200.7 / 6010 200.8 / 6020:					8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn	TAT starts the day received by the lab, if received by 4:30pm		
Circle Method(s) and Metal(s) to be analyzed					TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Sample Comments		
Relinquished by: (Signature)					Received by: (Signature)	Date/Time		
Date/Time					Relinquished by: (Signature)	Received by: (Signature)		
Date/Time					Relinquished by: (Signature)	Received by: (Signature)		

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

1631 / 245.1 / 7470 / 7471 : Hg

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 04.28.2020 09.10.00 AM

Work Order #: 659919

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.8
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.
Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Elizabeth McClellan

Date: 04.28.2020

Checklist reviewed by:



Jessica Kramer

Date: 04.29.2020



Certificate of Analysis Summary 660927

LT Environmental, Inc., Arvada, CO

Project Name: Nash 301H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Thu 05.07.2020 12:30

Report Date: 05.11.2020 13:10

Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	660927-001	660927-002	660927-003	660927-004	660927-005	660927-006
	<i>Field Id:</i>	FS39A	FS43A	FS25A	FS31A	FS19A	FS37A
	<i>Depth:</i>	2.5- ft	2.5- ft	2.5- ft	6- ft	9- ft	3- ft
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	05.06.2020 09:08	05.06.2020 09:21	05.06.2020 12:25	05.06.2020 12:44	05.06.2020 13:02	05.06.2020 13:54
BTEX by EPA 8021B	<i>Extracted:</i>	05.08.2020 17:20	05.08.2020 17:20	05.08.2020 17:20	05.08.2020 17:20	05.08.2020 17:20	05.08.2020 17:20
	<i>Analyzed:</i>	05.09.2020 06:46	05.09.2020 07:07	05.09.2020 07:27	05.09.2020 07:48	05.09.2020 08:49	05.09.2020 09:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00397 0.00397	<0.00402 0.00402	<0.00402 0.00402	<0.00396 0.00396	<0.00397 0.00397	<0.00400 0.00400
o-Xylene		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
Total Xylenes		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00198 0.00198	<0.00201 0.00201	<0.00201 0.00201	<0.00198 0.00198	<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300	<i>Extracted:</i>	05.07.2020 13:38	05.07.2020 13:38	05.07.2020 13:38	05.07.2020 13:38	05.07.2020 13:38	05.07.2020 13:38
	<i>Analyzed:</i>	05.07.2020 17:59	05.07.2020 18:05	05.07.2020 18:11	05.07.2020 18:17	05.07.2020 18:23	05.07.2020 18:28
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		216 99.6	208 99.6	271 99.6	103 9.88	173 99.8	92.3 9.98
TPH by SW8015 Mod	<i>Extracted:</i>	05.07.2020 17:30	05.07.2020 17:30	05.07.2020 17:30	05.07.2020 17:30	05.07.2020 17:30	05.07.2020 17:30
	<i>Analyzed:</i>	05.08.2020 00:05	05.08.2020 08:49	05.08.2020 09:08	05.08.2020 09:28	05.08.2020 09:49	05.08.2020 10:09
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.2 50.2	<50.2 50.2	<50.1 50.1	<50.1 50.1	<50.2 50.2
Diesel Range Organics (DRO)		<50.2 50.2	93.6 50.2	<50.2 50.2	<50.1 50.1	<50.1 50.1	<50.2 50.2
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.2 50.2	<50.2 50.2	<50.1 50.1	<50.1 50.1	<50.2 50.2
Total GRO-DRO		<50.2 50.2	93.6 50.2	<50.2 50.2	<50.1 50.1	<50.1 50.1	<50.2 50.2
Total TPH		<50.2 50.2	93.6 50.2	<50.2 50.2	<50.1 50.1	<50.1 50.1	<50.2 50.2

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 660927

LT Environmental, Inc., Arvada, CO

Project Name: Nash 301H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Thu 05.07.2020 12:30

Report Date: 05.11.2020 13:10

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	660927-007	660927-008	660927-009	660927-010	660927-011	660927-012
	Field Id:	FS36A	FS35A	FS30A	SW01	SW02	SW03
	Depth:	3- ft	3- ft	6- ft	0-9 ft	0-6 ft	0-6 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	05.06.2020 14:02	05.06.2020 14:16	05.06.2020 15:10	05.06.2020 13:05	05.06.2020 12:50	05.06.2020 12:50
BTEX by EPA 8021B	Extracted:	05.08.2020 17:20	05.08.2020 17:20	05.08.2020 17:20	05.08.2020 17:20	05.08.2020 17:20	05.08.2020 17:20
	Analyzed:	05.09.2020 09:30	05.09.2020 09:50	05.09.2020 10:10	05.09.2020 10:31	05.09.2020 10:51	05.09.2020 11:12
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00397 0.00397	<0.00400 0.00400	<0.00401 0.00401	<0.00402 0.00402	<0.00400 0.00400	<0.00403 0.00403
o-Xylene		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202
Total BTEX		<0.00198 0.00198	<0.00200 0.00200	<0.00200 0.00200	<0.00201 0.00201	<0.00200 0.00200	<0.00202 0.00202
Chloride by EPA 300	Extracted:	05.07.2020 16:42	05.07.2020 16:42	05.07.2020 16:42	05.07.2020 16:42	05.07.2020 16:42	05.07.2020 16:42
	Analyzed:	05.07.2020 19:04	05.07.2020 19:21	05.07.2020 19:27	05.07.2020 19:33	05.07.2020 19:39	05.07.2020 19:57
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		106 20.0	110 99.0	387 98.8	210 99.8	122 9.98	217 100
TPH by SW8015 Mod	Extracted:	05.07.2020 17:30	05.07.2020 17:30	05.07.2020 17:30	05.07.2020 17:30	05.07.2020 17:30	05.08.2020 17:30
	Analyzed:	05.08.2020 10:29	05.08.2020 10:49	05.08.2020 11:09	05.08.2020 11:30	05.08.2020 12:24	05.08.2020 19:44
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<50.1 50.1	<49.9 49.9	<50.2 50.2	<50.0 50.0
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.1 50.1	<49.9 49.9	<50.2 50.2	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.1 50.1	<49.9 49.9	<50.2 50.2	<50.0 50.0
Total GRO-DRO		<49.8 49.8	<50.0 50.0	<50.1 50.1	<49.9 49.9	<50.2 50.2	<50.0 50.0
Total TPH		<49.8 49.8	<50.0 50.0	<50.1 50.1	<49.9 49.9	<50.2 50.2	<50.0 50.0

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

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

Jessica Kramer
Project Manager



Certificate of Analysis Summary 660927

LT Environmental, Inc., Arvada, CO

Project Name: Nash 301H

Project Id: 012919216

Contact: Dan Moir

Project Location: Eddy

Date Received in Lab: Thu 05.07.2020 12:30

Report Date: 05.11.2020 13:10

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	660927-013	660927-014	660927-015			
	Field Id:	SW04	SW05	SW06			
	Depth:	0-9 ft	0-3 ft	0-3 ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	05.06.2020 13:03	05.06.2020 14:06	05.06.2020 14:08			
BTEX by EPA 8021B	Extracted:	05.08.2020 17:20	05.08.2020 19:10	05.08.2020 17:07			
	Analyzed:	05.09.2020 11:32	05.09.2020 13:51	05.09.2020 03:51			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200			
Toluene		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200			
Ethylbenzene		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200			
m,p-Xylenes		<0.00396 0.00396	<0.00402 0.00402	<0.00400 0.00400			
o-Xylene		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200			
Total Xylenes		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200			
Total BTEX		<0.00198 0.00198	<0.00201 0.00201	<0.00200 0.00200			
Chloride by EPA 300	Extracted:	05.07.2020 16:42	05.07.2020 16:42	05.07.2020 16:42			
	Analyzed:	05.07.2020 20:02	05.07.2020 20:08	05.07.2020 20:14			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		212 100	110 101	111 101			
TPH by SW8015 Mod	Extracted:	05.08.2020 17:30	05.08.2020 17:30	05.08.2020 17:30			
	Analyzed:	05.08.2020 20:45	05.08.2020 21:05	05.08.2020 21:26			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<49.9 49.9	<49.8 49.8			
Diesel Range Organics (DRO)		<49.9 49.9	<49.9 49.9	<49.8 49.8			
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<49.9 49.9	<49.8 49.8			
Total GRO-DRO		<49.9 49.9	<49.9 49.9	<49.8 49.8			
Total TPH		<49.9 49.9	<49.9 49.9	<49.8 49.8			

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

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

Jessica Kramer
Project Manager



Analytical Report 660927

for

LT Environmental, Inc.

Project Manager: Dan Moir

Nash 301H

012919216

05.11.2020

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.11.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **660927**

Nash 301H

Project Address: Eddy

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 660927. 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. 660927 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 660927****LT Environmental, Inc., Arvada, CO**

Nash 301H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS39A	S	05.06.2020 09:08	2.5 ft	660927-001
FS43A	S	05.06.2020 09:21	2.5 ft	660927-002
FS25A	S	05.06.2020 12:25	2.5 ft	660927-003
FS31A	S	05.06.2020 12:44	6 ft	660927-004
FS19A	S	05.06.2020 13:02	9 ft	660927-005
FS37A	S	05.06.2020 13:54	3 ft	660927-006
FS36A	S	05.06.2020 14:02	3 ft	660927-007
FS35A	S	05.06.2020 14:16	3 ft	660927-008
FS30A	S	05.06.2020 15:10	6 ft	660927-009
SW01	S	05.06.2020 13:05	0 - 9 ft	660927-010
SW02	S	05.06.2020 12:50	0 - 6 ft	660927-011
SW03	S	05.06.2020 12:50	0 - 6 ft	660927-012
SW04	S	05.06.2020 13:03	0 - 9 ft	660927-013
SW05	S	05.06.2020 14:06	0 - 3 ft	660927-014
SW06	S	05.06.2020 14:08	0 - 3 ft	660927-015



CASE NARRATIVE

Client Name: *LT Environmental, Inc.*

Project Name: *Nash 301H*

Project ID: 012919216
Work Order Number(s): 660927

Report Date: 05.11.2020
Date Received: 05.07.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS39A** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-001 Date Collected: 05.06.2020 09:08 Sample Depth: 2.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 13:38 Basis: Wet Weight
 Seq Number: 3125418

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	216	99.6	mg/kg	05.07.2020 17:59		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.07.2020 17:30 Basis: Wet Weight
 Seq Number: 3125463

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.08.2020 00:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.08.2020 00:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.08.2020 00:05	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	05.08.2020 00:05	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.08.2020 00:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	05.08.2020 00:05	
o-Terphenyl	84-15-1	76	%	70-135	05.08.2020 00:05	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS39A**
Lab Sample Id: 660927-001

Matrix: Soil
Date Collected: 05.06.2020 09:08

Date Received: 05.07.2020 12:30
Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125540

Prep Method: SW5035A

% Moisture:

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.09.2020 06:46	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.09.2020 06:46	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.09.2020 06:46	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.09.2020 06:46	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.09.2020 06:46	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.09.2020 06:46	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.09.2020 06:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.09.2020 06:46		
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.09.2020 06:46		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS43A** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-002 Date Collected: 05.06.2020 09:21 Sample Depth: 2.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 13:38 Basis: Wet Weight
 Seq Number: 3125418

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	208	99.6	mg/kg	05.07.2020 18:05		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.07.2020 17:30 Basis: Wet Weight
 Seq Number: 3125463

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.08.2020 08:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	93.6	50.2	mg/kg	05.08.2020 08:49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.08.2020 08:49	U	1
Total GRO-DRO	PHC628	93.6	50.2	mg/kg	05.08.2020 08:49		1
Total TPH	PHC635	93.6	50.2	mg/kg	05.08.2020 08:49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	05.08.2020 08:49	
o-Terphenyl	84-15-1	81	%	70-135	05.08.2020 08:49	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS43A**
Lab Sample Id: 660927-002

Matrix: Soil
Date Collected: 05.06.2020 09:21

Date Received: 05.07.2020 12:30
Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125540

Prep Method: SW5035A

% Moisture:

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.09.2020 07:07	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.09.2020 07:07	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.09.2020 07:07	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.09.2020 07:07	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.09.2020 07:07	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.09.2020 07:07	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.09.2020 07:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.09.2020 07:07		
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.09.2020 07:07		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS25A** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-003 Date Collected: 05.06.2020 12:25 Sample Depth: 2.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 13:38 Basis: Wet Weight
 Seq Number: 3125418

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	271	99.6	mg/kg	05.07.2020 18:11		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.07.2020 17:30 Basis: Wet Weight
 Seq Number: 3125463

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.08.2020 09:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.08.2020 09:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.08.2020 09:08	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	05.08.2020 09:08	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.08.2020 09:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-135	05.08.2020 09:08	
o-Terphenyl	84-15-1	78	%	70-135	05.08.2020 09:08	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS25A**
Lab Sample Id: 660927-003

Matrix: Soil
Date Collected: 05.06.2020 12:25

Date Received: 05.07.2020 12:30
Sample Depth: 2.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125540

Prep Method: SW5035A

% Moisture:

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.09.2020 07:27	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.09.2020 07:27	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.09.2020 07:27	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.09.2020 07:27	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.09.2020 07:27	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.09.2020 07:27	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.09.2020 07:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.09.2020 07:27		
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.09.2020 07:27		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS31A** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-004 Date Collected: 05.06.2020 12:44 Sample Depth: 6 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 13:38 Basis: Wet Weight
 Seq Number: 3125418

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	103	9.88	mg/kg	05.07.2020 18:17		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.07.2020 17:30 Basis: Wet Weight
 Seq Number: 3125463

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.08.2020 09:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.08.2020 09:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.08.2020 09:28	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	05.08.2020 09:28	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.08.2020 09:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-135	05.08.2020 09:28	
o-Terphenyl	84-15-1	75	%	70-135	05.08.2020 09:28	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS31A**
Lab Sample Id: 660927-004

Matrix: Soil
Date Collected: 05.06.2020 12:44

Date Received: 05.07.2020 12:30
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125540

Prep Method: SW5035A

% Moisture:

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.09.2020 07:48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.09.2020 07:48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.09.2020 07:48	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.09.2020 07:48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.09.2020 07:48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.09.2020 07:48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.09.2020 07:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.09.2020 07:48		
4-Bromofluorobenzene	460-00-4	97	%	70-130	05.09.2020 07:48		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS19A** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-005 Date Collected: 05.06.2020 13:02 Sample Depth: 9 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 13:38 Basis: Wet Weight
 Seq Number: 3125418

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	173	99.8	mg/kg	05.07.2020 18:23		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.07.2020 17:30 Basis: Wet Weight
 Seq Number: 3125463

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.08.2020 09:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.08.2020 09:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.08.2020 09:49	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	05.08.2020 09:49	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.08.2020 09:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	05.08.2020 09:49	
o-Terphenyl	84-15-1	77	%	70-135	05.08.2020 09:49	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS19A**
Lab Sample Id: 660927-005

Matrix: Soil
Date Collected: 05.06.2020 13:02

Date Received: 05.07.2020 12:30
Sample Depth: 9 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125540

Prep Method: SW5035A

% Moisture:

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.09.2020 08:49	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.09.2020 08:49	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.09.2020 08:49	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.09.2020 08:49	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.09.2020 08:49	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.09.2020 08:49	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.09.2020 08:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	102	%	70-130	05.09.2020 08:49		
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.09.2020 08:49		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS37A** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-006 Date Collected: 05.06.2020 13:54 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 13:38 Basis: Wet Weight
 Seq Number: 3125418

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	92.3	9.98	mg/kg	05.07.2020 18:28		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.07.2020 17:30 Basis: Wet Weight
 Seq Number: 3125463

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.08.2020 10:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.08.2020 10:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.08.2020 10:09	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	05.08.2020 10:09	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.08.2020 10:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	05.08.2020 10:09	
o-Terphenyl	84-15-1	77	%	70-135	05.08.2020 10:09	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS37A**
Lab Sample Id: 660927-006

Matrix: Soil
Date Collected: 05.06.2020 13:54

Date Received: 05.07.2020 12:30
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125540

Prep Method: SW5035A

% Moisture:

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.09.2020 09:09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.09.2020 09:09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.09.2020 09:09	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.09.2020 09:09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.09.2020 09:09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.09.2020 09:09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.09.2020 09:09	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	107	%	70-130	05.09.2020 09:09		
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.09.2020 09:09		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS36A** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-007 Date Collected: 05.06.2020 14:02 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 16:42 Basis: Wet Weight
 Seq Number: 3125427

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	106	20.0	mg/kg	05.07.2020 19:04		2

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.07.2020 17:30 Basis: Wet Weight
 Seq Number: 3125463

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.08.2020 10:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.08.2020 10:29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.08.2020 10:29	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	05.08.2020 10:29	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.08.2020 10:29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	05.08.2020 10:29	
o-Terphenyl	84-15-1	78	%	70-135	05.08.2020 10:29	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS36A**
Lab Sample Id: 660927-007

Matrix: Soil
Date Collected: 05.06.2020 14:02

Date Received: 05.07.2020 12:30
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125540

Prep Method: SW5035A

% Moisture:

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.09.2020 09:30	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.09.2020 09:30	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.09.2020 09:30	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.09.2020 09:30	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.09.2020 09:30	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.09.2020 09:30	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.09.2020 09:30	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.09.2020 09:30		
4-Bromofluorobenzene	460-00-4	96	%	70-130	05.09.2020 09:30		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS35A** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-008 Date Collected: 05.06.2020 14:16 Sample Depth: 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 16:42 Basis: Wet Weight
 Seq Number: 3125427

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	110	99.0	mg/kg	05.07.2020 19:21		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.07.2020 17:30 Basis: Wet Weight
 Seq Number: 3125463

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.08.2020 10:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.08.2020 10:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.08.2020 10:49	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	05.08.2020 10:49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.08.2020 10:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-135	05.08.2020 10:49	
o-Terphenyl	84-15-1	74	%	70-135	05.08.2020 10:49	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS35A**
Lab Sample Id: 660927-008

Matrix: Soil
Date Collected: 05.06.2020 14:16

Date Received: 05.07.2020 12:30
Sample Depth: 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Seq Number: 3125540

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.09.2020 09:50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.09.2020 09:50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.09.2020 09:50	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.09.2020 09:50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.09.2020 09:50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.09.2020 09:50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.09.2020 09:50	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.09.2020 09:50		
4-Bromofluorobenzene	460-00-4	101	%	70-130	05.09.2020 09:50		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS30A** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-009 Date Collected: 05.06.2020 15:10 Sample Depth: 6 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 16:42 Basis: Wet Weight
 Seq Number: 3125427

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	387	98.8	mg/kg	05.07.2020 19:27		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.07.2020 17:30 Basis: Wet Weight
 Seq Number: 3125463

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	05.08.2020 11:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	05.08.2020 11:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	05.08.2020 11:09	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	05.08.2020 11:09	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	05.08.2020 11:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-135	05.08.2020 11:09	
o-Terphenyl	84-15-1	79	%	70-135	05.08.2020 11:09	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **FS30A**
Lab Sample Id: 660927-009

Matrix: Soil
Date Collected: 05.06.2020 15:10

Date Received: 05.07.2020 12:30
Sample Depth: 6 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125540

Prep Method: SW5035A

% Moisture:

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.09.2020 10:10	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.09.2020 10:10	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.09.2020 10:10	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	05.09.2020 10:10	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.09.2020 10:10	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.09.2020 10:10	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.09.2020 10:10	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.09.2020 10:10		
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.09.2020 10:10		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW01** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-010 Date Collected: 05.06.2020 13:05 Sample Depth: 0 - 9 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 16:42 Basis: Wet Weight
 Seq Number: 3125427

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	210	99.8	mg/kg	05.07.2020 19:33		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.07.2020 17:30 Basis: Wet Weight
 Seq Number: 3125463

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.08.2020 11:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.08.2020 11:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.08.2020 11:30	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	05.08.2020 11:30	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.08.2020 11:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-135	05.08.2020 11:30	
o-Terphenyl	84-15-1	74	%	70-135	05.08.2020 11:30	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW01**
Lab Sample Id: 660927-010

Matrix: Soil
Date Collected: 05.06.2020 13:05

Date Received: 05.07.2020 12:30
Sample Depth: 0 - 9 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125540

Prep Method: SW5035A

% Moisture:

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.09.2020 10:31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.09.2020 10:31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.09.2020 10:31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.09.2020 10:31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.09.2020 10:31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.09.2020 10:31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.09.2020 10:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	05.09.2020 10:31		
4-Bromofluorobenzene	460-00-4	102	%	70-130	05.09.2020 10:31		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW02** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-011 Date Collected: 05.06.2020 12:50 Sample Depth: 0 - 6 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 16:42 Basis: Wet Weight
 Seq Number: 3125427

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	122	9.98	mg/kg	05.07.2020 19:39		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.07.2020 17:30 Basis: Wet Weight
 Seq Number: 3125463

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.08.2020 12:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.08.2020 12:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.08.2020 12:24	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	05.08.2020 12:24	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.08.2020 12:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	05.08.2020 12:24	
o-Terphenyl	84-15-1	75	%	70-135	05.08.2020 12:24	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW02**
Lab Sample Id: 660927-011

Matrix: Soil
Date Collected: 05.06.2020 12:50

Date Received: 05.07.2020 12:30
Sample Depth: 0 - 6 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125540

Prep Method: SW5035A

% Moisture:

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.09.2020 10:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.09.2020 10:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.09.2020 10:51	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.09.2020 10:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.09.2020 10:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.09.2020 10:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.09.2020 10:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.09.2020 10:51		
4-Bromofluorobenzene	460-00-4	98	%	70-130	05.09.2020 10:51		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW03** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-012 Date Collected: 05.06.2020 12:50 Sample Depth: 0 - 6 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 16:42 Basis: Wet Weight
 Seq Number: 3125427

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	217	100	mg/kg	05.07.2020 19:57		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.08.2020 17:30 Basis: Wet Weight
 Seq Number: 3125528

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	05.08.2020 19:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	05.08.2020 19:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	05.08.2020 19:44	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	05.08.2020 19:44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	05.08.2020 19:44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	74	%	70-135	05.08.2020 19:44	
o-Terphenyl	84-15-1	71	%	70-135	05.08.2020 19:44	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW03**
Lab Sample Id: 660927-012

Matrix: Soil
Date Collected: 05.06.2020 12:50

Date Received: 05.07.2020 12:30
Sample Depth: 0 - 6 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Seq Number: 3125540

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	05.09.2020 11:12	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	05.09.2020 11:12	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	05.09.2020 11:12	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	05.09.2020 11:12	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	05.09.2020 11:12	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	05.09.2020 11:12	U	1
Total BTEX		<0.00202	0.00202	mg/kg	05.09.2020 11:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	05.09.2020 11:12		
4-Bromofluorobenzene	460-00-4	99	%	70-130	05.09.2020 11:12		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW04** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-013 Date Collected: 05.06.2020 13:03 Sample Depth: 0 - 9 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 16:42 Basis: Wet Weight
 Seq Number: 3125427

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	212	100	mg/kg	05.07.2020 20:02		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.08.2020 17:30 Basis: Wet Weight
 Seq Number: 3125528

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.08.2020 20:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.08.2020 20:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.08.2020 20:45	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	05.08.2020 20:45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.08.2020 20:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-135	05.08.2020 20:45	
o-Terphenyl	84-15-1	75	%	70-135	05.08.2020 20:45	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW04**
Lab Sample Id: 660927-013

Matrix: Soil
Date Collected: 05.06.2020 13:03

Date Received: 05.07.2020 12:30
Sample Depth: 0 - 9 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.08.2020 17:20

Basis: Wet Weight

Seq Number: 3125540

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.09.2020 11:32	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.09.2020 11:32	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.09.2020 11:32	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.09.2020 11:32	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.09.2020 11:32	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.09.2020 11:32	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.09.2020 11:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	05.09.2020 11:32		
4-Bromofluorobenzene	460-00-4	100	%	70-130	05.09.2020 11:32		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW05**
Lab Sample Id: 660927-014

Matrix: Soil
Date Collected: 05.06.2020 14:06

Date Received: 05.07.2020 12:30
Sample Depth: 0 - 3 ft

Analytical Method: Chloride by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3125427

Date Prep: 05.07.2020 16:42

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	110	101	mg/kg	05.07.2020 20:08		10

Analytical Method: TPH by SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3125528

Date Prep: 05.08.2020 17:30

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	05.08.2020 21:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	05.08.2020 21:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	05.08.2020 21:05	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	05.08.2020 21:05	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	05.08.2020 21:05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	78	%	70-135	05.08.2020 21:05	
o-Terphenyl	84-15-1	75	%	70-135	05.08.2020 21:05	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW05**
Lab Sample Id: 660927-014

Matrix: Soil
Date Collected: 05.06.2020 14:06

Date Received: 05.07.2020 12:30
Sample Depth: 0 - 3 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.08.2020 19:10

Basis: Wet Weight

Seq Number: 3125537

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	05.09.2020 13:51	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	05.09.2020 13:51	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	05.09.2020 13:51	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	05.09.2020 13:51	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	05.09.2020 13:51	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	05.09.2020 13:51	U	1
Total BTEX		<0.00201	0.00201	mg/kg	05.09.2020 13:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	05.09.2020 13:51		
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.09.2020 13:51		



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW06** Matrix: Soil Date Received: 05.07.2020 12:30
 Lab Sample Id: 660927-015 Date Collected: 05.06.2020 14:08 Sample Depth: 0 - 3 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.07.2020 16:42 Basis: Wet Weight
 Seq Number: 3125427

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	111	101	mg/kg	05.07.2020 20:14		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.08.2020 17:30 Basis: Wet Weight
 Seq Number: 3125528

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.08.2020 21:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.08.2020 21:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.08.2020 21:26	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	05.08.2020 21:26	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.08.2020 21:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	05.08.2020 21:26	
o-Terphenyl	84-15-1	75	%	70-135	05.08.2020 21:26	



Certificate of Analytical Results 660927

LT Environmental, Inc., Arvada, CO

Nash 301H

Sample Id: **SW06**
Lab Sample Id: 660927-015

Matrix: Soil
Date Collected: 05.06.2020 14:08

Date Received: 05.07.2020 12:30
Sample Depth: 0 - 3 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125536

Prep Method: SW5035A

% Moisture:

Date Prep: 05.08.2020 17:07

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.09.2020 03:51	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.09.2020 03:51	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.09.2020 03:51	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.09.2020 03:51	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.09.2020 03:51	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.09.2020 03:51	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.09.2020 03:51	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.09.2020 03:51		
4-Bromofluorobenzene	460-00-4	106	%	70-130	05.09.2020 03:51		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.
Nash 301H

Analytical Method: Chloride by EPA 300

Seq Number: 3125418

MB Sample Id: 7702951-1-BLK

Matrix: Solid

LCS Sample Id: 7702951-1-BKS

Prep Method: E300P

Date Prep: 05.07.2020

LCSD Sample Id: 7702951-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	253	101	252	101	90-110	0	20	mg/kg	05.07.2020 15:36	

Analytical Method: Chloride by EPA 300

Seq Number: 3125427

MB Sample Id: 7702952-1-BLK

Matrix: Solid

LCS Sample Id: 7702952-1-BKS

Prep Method: E300P

Date Prep: 05.07.2020

LCSD Sample Id: 7702952-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	253	101	252	101	90-110	0	20	mg/kg	05.07.2020 18:52	

Analytical Method: Chloride by EPA 300

Seq Number: 3125418

Parent Sample Id: 660833-014

Matrix: Soil

MS Sample Id: 660833-014 S

Prep Method: E300P

Date Prep: 05.07.2020

MSD Sample Id: 660833-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1830	200	2050	110	2050	110	90-110	0	20	mg/kg	05.07.2020 15:55	

Analytical Method: Chloride by EPA 300

Seq Number: 3125418

Parent Sample Id: 660921-003

Matrix: Soil

MS Sample Id: 660921-003 S

Prep Method: E300P

Date Prep: 05.07.2020

MSD Sample Id: 660921-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	86.9	199	279	97	280	97	90-110	0	20	mg/kg	05.07.2020 17:18	

Analytical Method: Chloride by EPA 300

Seq Number: 3125427

Parent Sample Id: 660927-007

Matrix: Soil

MS Sample Id: 660927-007 S

Prep Method: E300P

Date Prep: 05.07.2020

MSD Sample Id: 660927-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	106	200	320	107	322	108	90-110	1	20	mg/kg	05.07.2020 19:10	

Analytical Method: Chloride by EPA 300

Seq Number: 3125427

Parent Sample Id: 660930-001

Matrix: Soil

MS Sample Id: 660930-001 S

Prep Method: E300P

Date Prep: 05.07.2020

MSD Sample Id: 660930-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	220	201	422	100	423	101	90-110	0	20	mg/kg	05.07.2020 20:26	

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

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

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

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



LT Environmental, Inc.

Nash 301H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125463

MB Sample Id: 7702968-1-BLK

Matrix: Solid

LCS Sample Id: 7702968-1-BKS

Prep Method: SW8015P

Date Prep: 05.07.2020

LCSD Sample Id: 7702968-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	1070	107	70-135	3	35	mg/kg	05.07.2020 19:39	
Diesel Range Organics (DRO)	<50.0	1000	1190	119	1170	117	70-135	2	35	mg/kg	05.07.2020 19:39	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	76		114		113		70-135	%	05.07.2020 19:39
o-Terphenyl	72		104		103		70-135	%	05.07.2020 19:39

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125528

MB Sample Id: 7703005-1-BLK

Matrix: Solid

LCS Sample Id: 7703005-1-BKS

Prep Method: SW8015P

Date Prep: 05.08.2020

LCSD Sample Id: 7703005-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1120	112	1090	109	70-135	3	35	mg/kg	05.08.2020 19:04	
Diesel Range Organics (DRO)	<50.0	1000	1200	120	1120	112	70-135	7	35	mg/kg	05.08.2020 19:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	73		116		127		70-135	%	05.08.2020 19:04
o-Terphenyl	71		103		99		70-135	%	05.08.2020 19:04

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125463

Matrix: Solid

MB Sample Id: 7702968-1-BLK

Prep Method: SW8015P

Date Prep: 05.07.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.07.2020 19:19	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125528

Matrix: Solid

MB Sample Id: 7703005-1-BLK

Prep Method: SW8015P

Date Prep: 05.08.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.08.2020 18:43	

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

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

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

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



LT Environmental, Inc.

Nash 301H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125463

Parent Sample Id: 660809-032

Matrix: Soil

MS Sample Id: 660809-032 S

Prep Method: SW8015P

Date Prep: 05.07.2020

MSD Sample Id: 660809-032 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	1180	118	1190	119	70-135	1	35	mg/kg	05.07.2020 20:41	
Diesel Range Organics (DRO)	<49.9	997	1160	116	1130	113	70-135	3	35	mg/kg	05.07.2020 20:41	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		102		70-135	%	05.07.2020 20:41
o-Terphenyl	91		88		70-135	%	05.07.2020 20:41

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125528

Parent Sample Id: 660927-012

Matrix: Soil

MS Sample Id: 660927-012 S

Prep Method: SW8015P

Date Prep: 05.08.2020

MSD Sample Id: 660927-012 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	1300	129	1250	125	70-135	4	35	mg/kg	05.08.2020 20:05	
Diesel Range Organics (DRO)	<50.3	1010	1230	122	1180	118	70-135	4	35	mg/kg	05.08.2020 20:05	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	104		105		70-135	%	05.08.2020 20:05
o-Terphenyl	90		90		70-135	%	05.08.2020 20:05

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125536

MB Sample Id: 7703029-1-BLK

Matrix: Solid

LCS Sample Id: 7703029-1-BKS

Prep Method: SW5035A

Date Prep: 05.08.2020

LCSD Sample Id: 7703029-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.115	115	0.113	113	70-130	2	35	mg/kg	05.09.2020 02:04	
Toluene	<0.00200	0.100	0.104	104	0.101	101	70-130	3	35	mg/kg	05.09.2020 02:04	
Ethylbenzene	<0.00200	0.100	0.0970	97	0.0944	94	71-129	3	35	mg/kg	05.09.2020 02:04	
m,p-Xylenes	<0.00400	0.200	0.186	93	0.182	91	70-135	2	35	mg/kg	05.09.2020 02:04	
o-Xylene	<0.00200	0.100	0.0965	97	0.0940	94	71-133	3	35	mg/kg	05.09.2020 02:04	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	117		108		108		70-130	%	05.09.2020 02:04
4-Bromofluorobenzene	108		98		99		70-130	%	05.09.2020 02:04

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

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

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

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



LT Environmental, Inc.

Nash 301H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125540

Matrix: Solid

Prep Method: SW5035A

Date Prep: 05.08.2020

MB Sample Id: 7703033-1-BLK

LCS Sample Id: 7703033-1-BKS

LCSD Sample Id: 7703033-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.102	102	0.121	121	70-130	17	35	mg/kg	05.09.2020 03:02	
Toluene	<0.00200	0.100	0.0977	98	0.118	118	70-130	19	35	mg/kg	05.09.2020 03:02	
Ethylbenzene	<0.00200	0.100	0.0917	92	0.110	110	71-129	18	35	mg/kg	05.09.2020 03:02	
m,p-Xylenes	<0.00400	0.200	0.189	95	0.228	114	70-135	19	35	mg/kg	05.09.2020 03:02	
o-Xylene	<0.00200	0.100	0.0963	96	0.115	115	71-133	18	35	mg/kg	05.09.2020 03:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		104		105		70-130	%	05.09.2020 03:02
4-Bromofluorobenzene	95		94		92		70-130	%	05.09.2020 03:02

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125537

Matrix: Solid

Prep Method: SW5035A

Date Prep: 05.08.2020

MB Sample Id: 7703030-1-BLK

LCS Sample Id: 7703030-1-BKS

LCSD Sample Id: 7703030-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.120	120	0.116	116	70-130	3	35	mg/kg	05.09.2020 12:04	
Toluene	<0.00200	0.100	0.108	108	0.104	104	70-130	4	35	mg/kg	05.09.2020 12:04	
Ethylbenzene	<0.00200	0.100	0.101	101	0.0973	97	71-129	4	35	mg/kg	05.09.2020 12:04	
m,p-Xylenes	<0.00400	0.200	0.193	97	0.187	94	70-135	3	35	mg/kg	05.09.2020 12:04	
o-Xylene	<0.00200	0.100	0.101	101	0.0972	97	71-133	4	35	mg/kg	05.09.2020 12:04	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	113		107		109		70-130	%	05.09.2020 12:04
4-Bromofluorobenzene	105		97		100		70-130	%	05.09.2020 12:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125536

Matrix: Soil

Prep Method: SW5035A

Date Prep: 05.08.2020

Parent Sample Id: 660927-015

MS Sample Id: 660927-015 S

MSD Sample Id: 660927-015 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	0.104	104	0.109	109	70-130	5	35	mg/kg	05.09.2020 02:47	
Toluene	<0.00200	0.100	0.0928	93	0.0972	97	70-130	5	35	mg/kg	05.09.2020 02:47	
Ethylbenzene	<0.00200	0.100	0.0861	86	0.0900	90	71-129	4	35	mg/kg	05.09.2020 02:47	
m,p-Xylenes	<0.00400	0.200	0.164	82	0.172	86	70-135	5	35	mg/kg	05.09.2020 02:47	
o-Xylene	<0.00200	0.100	0.0845	85	0.0887	89	71-133	5	35	mg/kg	05.09.2020 02:47	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		107		70-130	%	05.09.2020 02:47
4-Bromofluorobenzene	102		98		70-130	%	05.09.2020 02:47

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

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

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

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



LT Environmental, Inc.

Nash 301H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125540

Parent Sample Id: 660921-001

Matrix: Soil

MS Sample Id: 660921-001 S

Prep Method: SW5035A

Date Prep: 05.08.2020

MSD Sample Id: 660921-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.101	0.0841	83	0.0968	96	70-130	14	35	mg/kg	05.09.2020 03:43	
Toluene	<0.00201	0.101	0.0801	79	0.0917	91	70-130	14	35	mg/kg	05.09.2020 03:43	
Ethylbenzene	<0.00201	0.101	0.0751	74	0.0859	85	71-129	13	35	mg/kg	05.09.2020 03:43	
m,p-Xylenes	<0.00402	0.201	0.152	76	0.174	86	70-135	13	35	mg/kg	05.09.2020 03:43	
o-Xylene	<0.00201	0.101	0.0774	77	0.0880	87	71-133	13	35	mg/kg	05.09.2020 03:43	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		70-130	%	05.09.2020 03:43
4-Bromofluorobenzene	95		96		70-130	%	05.09.2020 03:43

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125537

Parent Sample Id: 660927-014

Matrix: Soil

MS Sample Id: 660927-014 S

Prep Method: SW5035A

Date Prep: 05.08.2020

MSD Sample Id: 660927-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0832	82	0.0901	89	70-130	8	35	mg/kg	05.09.2020 12:46	
Toluene	<0.00202	0.101	0.0804	80	0.0782	77	70-130	3	35	mg/kg	05.09.2020 12:46	
Ethylbenzene	<0.00202	0.101	0.0929	92	0.0953	94	71-129	3	35	mg/kg	05.09.2020 12:46	
m,p-Xylenes	<0.00404	0.202	0.160	79	0.186	92	70-135	15	35	mg/kg	05.09.2020 12:46	
o-Xylene	<0.00202	0.101	0.0928	92	0.0848	84	71-133	9	35	mg/kg	05.09.2020 12:46	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	77		103		70-130	%	05.09.2020 12:46
4-Bromofluorobenzene	82		111		70-130	%	05.09.2020 12:46

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

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

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

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



Chain of Custody

Work Order No: 1220977

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

www.xenco.com

Page 1 of 1

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

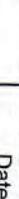
Work Order Comments									
Program: UST/PST		☐ RP	☐ Growfields	☐ RC	☐ \$perfund				
State of Project:									
Reporting Level II		☐ Level III	☐ PST/UST	☐ RP	☐ Level IV				
Deliverables: EDD		☐	AdAPT	☐	Other:				

Project Name:	Nash 301H	Turn Around	ANALYSIS REQUEST							Work Order Notes
Project Number:	012919216	Routine	☒							
P.O. Number:	Eddy	Rush:								
Sampler's Name:	William Mather	Due Date:								

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

[illegible]

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		5/17/2012 12:00pm			5/17/2012 12:30



Chain of Custody

Work Order No:

1000927

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

www.xenco.com

Page

2 of 2

Project Manager:	Dan Moir	Bill to: (if different)	Kyle Litrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	
Phone:	(432) 236-3849	Email:	lwmather@ltenry.com, dmair@ltenry.com

Project Name:	Nash 301H	Turn Around	
Project Number:	012919216	Routine	
P.O. Number:	Eddy	Rush:	
Sampler's Name:	William Mather	Due Date:	

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

Sample Identification					Matrix	Date Sampled	Time Sampled	Depth	Number	TPH (EPA)	BTEX (EPA)	Chloride	lab, if received by 4:30pm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Sample Comments																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
SW02	S	5/6/2020	12:50	0-6'	1	X	X	X																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</

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

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	5/7/2013 04:00 PM	<i>[Signature]</i>	<i>[Signature]</i>	5/7/2013 04:00 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 05.07.2020 12.30.00 PM

Work Order #: 660927

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6 *Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/ received?	Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	No
#18 Water VOC samples have zero headspace?	N/A

Samples received in bulk containers.

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Elizabeth McClellan

Date: 05.07.2020

Checklist reviewed by:



Jessica Kramer

Date: 05.08.2020



Certificate of Analysis Summary 661181

LT Environmental, Inc., Arvada, CO

Project Name: Nash Unit 301H

Project Id: 012919215

Contact: Dan Moir

Project Location: Eddy County

Date Received in Lab: Mon 05.11.2020 15:20

Report Date: 05.14.2020 13:35

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	661181-001	661181-002	661181-003			
	Field Id:	FS11A	FS12A	FS13A			
	Depth:	1.5- ft	1.5- ft	1.5- ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	05.11.2020 11:00	05.11.2020 10:42	05.11.2020 10:00			
BTEX by EPA 8021B	Extracted:	05.11.2020 18:00	05.11.2020 18:00	05.11.2020 18:00			
	Analyzed:	05.12.2020 08:35	05.12.2020 09:39	05.12.2020 10:01			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198			
Toluene		<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198			
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198			
m,p-Xylenes		<0.00396 0.00396	<0.00400 0.00400	<0.00397 0.00397			
o-Xylene		<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198			
Total Xylenes		<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198			
Total BTEX		<0.00198 0.00198	<0.00200 0.00200	<0.00198 0.00198			
Chloride by EPA 300	Extracted:	05.12.2020 17:40	05.12.2020 17:40	05.12.2020 17:40			
	Analyzed:	05.12.2020 17:57	05.12.2020 18:03	05.12.2020 18:09			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		53.4 50.3	83.6 50.4	64.1 49.9			
TPH by SW8015 Mod	Extracted:	05.12.2020 17:00	05.12.2020 17:00	05.12.2020 17:00			
	Analyzed:	05.13.2020 15:50	05.13.2020 16:11	05.13.2020 16:32			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2	<50.2 50.2	<49.8 49.8			
Diesel Range Organics (DRO)		<50.2 50.2	<50.2 50.2	<49.8 49.8			
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2	<50.2 50.2	<49.8 49.8			
Total GRO-DRO		<50.2 50.2	<50.2 50.2	<49.8 49.8			
Total TPH		<50.2 50.2	<50.2 50.2	<49.8 49.8			

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

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

Jessica Kramer
Project Manager



Analytical Report 661181

for

LT Environmental, Inc.

Project Manager: Dan Moir

Nash Unit 301H

012919215

05.14.2020

Collected By: Client

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

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-32), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TN102385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



05.14.2020

Project Manager: **Dan Moir**

LT Environmental, Inc.

4600 W. 60th Avenue

Arvada, CO 80003

Reference: XENCO Report No(s): **661181**

Nash Unit 301H

Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 661181. 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. 661181 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 661181****LT Environmental, Inc., Arvada, CO**

Nash Unit 301H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS11A	S	05.11.2020 11:00	1.5 ft	661181-001
FS12A	S	05.11.2020 10:42	1.5 ft	661181-002
FS13A	S	05.11.2020 10:00	1.5 ft	661181-003



CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Nash Unit 301H

Project ID: 012919215
Work Order Number(s): 661181

Report Date: 05.14.2020
Date Received: 05.11.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 661181

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS11A** Matrix: Soil Date Received: 05.11.2020 15:20
 Lab Sample Id: 661181-001 Date Collected: 05.11.2020 11:00 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.12.2020 17:40 Basis: Wet Weight
 Seq Number: 3125746

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	53.4	50.3	mg/kg	05.12.2020 17:57		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.12.2020 17:00 Basis: Wet Weight
 Seq Number: 3125896

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.13.2020 15:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.13.2020 15:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.13.2020 15:50	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	05.13.2020 15:50	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.13.2020 15:50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	05.13.2020 15:50	
o-Terphenyl	84-15-1	113	%	70-135	05.13.2020 15:50	



Certificate of Analytical Results 661181

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS11A**
Lab Sample Id: 661181-001

Matrix: Soil
Date Collected: 05.11.2020 11:00

Date Received: 05.11.2020 15:20
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125711

Prep Method: SW5035A

% Moisture:

Date Prep: 05.11.2020 18:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.12.2020 08:35	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.12.2020 08:35	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.12.2020 08:35	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	05.12.2020 08:35	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.12.2020 08:35	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.12.2020 08:35	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.12.2020 08:35	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	05.12.2020 08:35		
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.12.2020 08:35		



Certificate of Analytical Results 661181

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS12A**
Lab Sample Id: 661181-002

Matrix: Soil
Date Collected: 05.11.2020 10:42

Date Received: 05.11.2020 15:20
Sample Depth: 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: MAB

Analyst: MAB

Seq Number: 3125746

Date Prep: 05.12.2020 17:40

Prep Method: E300P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	83.6	50.4	mg/kg	05.12.2020 18:03		5

Analytical Method: TPH by SW8015 Mod

Tech: DTH

Analyst: DTH

Seq Number: 3125896

Date Prep: 05.12.2020 17:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	05.13.2020 16:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	05.13.2020 16:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	05.13.2020 16:11	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	05.13.2020 16:11	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	05.13.2020 16:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	05.13.2020 16:11	
o-Terphenyl	84-15-1	120	%	70-135	05.13.2020 16:11	



Certificate of Analytical Results 661181

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS12A**
Lab Sample Id: 661181-002

Matrix: Soil
Date Collected: 05.11.2020 10:42

Date Received: 05.11.2020 15:20
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: MAB

% Moisture:

Analyst: MAB

Date Prep: 05.11.2020 18:00

Basis: Wet Weight

Seq Number: 3125711

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	05.12.2020 09:39	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	05.12.2020 09:39	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	05.12.2020 09:39	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	05.12.2020 09:39	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	05.12.2020 09:39	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	05.12.2020 09:39	U	1
Total BTEX		<0.00200	0.00200	mg/kg	05.12.2020 09:39	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	113	%	70-130	05.12.2020 09:39		
4-Bromofluorobenzene	460-00-4	107	%	70-130	05.12.2020 09:39		



Certificate of Analytical Results 661181

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS13A** Matrix: Soil Date Received: 05.11.2020 15:20
 Lab Sample Id: 661181-003 Date Collected: 05.11.2020 10:00 Sample Depth: 1.5 ft
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: MAB % Moisture:
 Analyst: MAB Date Prep: 05.12.2020 17:40 Basis: Wet Weight
 Seq Number: 3125746

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	64.1	49.9	mg/kg	05.12.2020 18:09		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DTH % Moisture:
 Analyst: DTH Date Prep: 05.12.2020 17:00 Basis: Wet Weight
 Seq Number: 3125896

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	05.13.2020 16:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	05.13.2020 16:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	05.13.2020 16:32	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	05.13.2020 16:32	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	05.13.2020 16:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	05.13.2020 16:32	
o-Terphenyl	84-15-1	116	%	70-135	05.13.2020 16:32	



Certificate of Analytical Results 661181

LT Environmental, Inc., Arvada, CO

Nash Unit 301H

Sample Id: **FS13A**
Lab Sample Id: 661181-003

Matrix: Soil
Date Collected: 05.11.2020 10:00

Date Received: 05.11.2020 15:20
Sample Depth: 1.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: MAB

Analyst: MAB

Seq Number: 3125711

Prep Method: SW5035A

% Moisture:

Date Prep: 05.11.2020 18:00

Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	05.12.2020 10:01	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	05.12.2020 10:01	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	05.12.2020 10:01	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	05.12.2020 10:01	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	05.12.2020 10:01	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	05.12.2020 10:01	U	1
Total BTEX		<0.00198	0.00198	mg/kg	05.12.2020 10:01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	05.12.2020 10:01	
4-Bromofluorobenzene	460-00-4	104	%	70-130	05.12.2020 10:01	



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



LT Environmental, Inc.

Nash Unit 301H

Analytical Method: Chloride by EPA 300

Seq Number: 3125746

MB Sample Id: 7703190-1-BLK

Matrix: Solid

LCS Sample Id: 7703190-1-BKS

Prep Method: E300P

Date Prep: 05.12.2020

LCSD Sample Id: 7703190-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	251	100	250	100	90-110	0	20	mg/kg	05.12.2020 15:41	

Analytical Method: Chloride by EPA 300

Seq Number: 3125746

Parent Sample Id: 661172-005

Matrix: Soil

MS Sample Id: 661172-005 S

Prep Method: E300P

Date Prep: 05.12.2020

MSD Sample Id: 661172-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.71	200	190	91	190	91	90-110	0	20	mg/kg	05.12.2020 15:59	

Analytical Method: Chloride by EPA 300

Seq Number: 3125746

Parent Sample Id: 661180-005

Matrix: Soil

MS Sample Id: 661180-005 S

Prep Method: E300P

Date Prep: 05.12.2020

MSD Sample Id: 661180-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	243	200	433	95	434	96	90-110	0	20	mg/kg	05.12.2020 17:45	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125896

MB Sample Id: 7703211-1-BLK

Matrix: Solid

LCS Sample Id: 7703211-1-BKS

Prep Method: SW8015P

Date Prep: 05.12.2020

LCSD Sample Id: 7703211-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1010	101	70-135	4	35	mg/kg	05.13.2020 12:43	
Diesel Range Organics (DRO)	<50.0	1000	1130	113	1100	110	70-135	3	35	mg/kg	05.13.2020 12:43	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	135		116		115		70-135	%	05.13.2020 12:43
o-Terphenyl	135		110		110		70-135	%	05.13.2020 12:43

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125896

Matrix: Solid

MB Sample Id: 7703211-1-BLK

Prep Method: SW8015P

Date Prep: 05.12.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	05.13.2020 12:23	

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

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

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

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



LT Environmental, Inc.

Nash Unit 301H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3125896

Parent Sample Id: 661220-020

Matrix: Soil

MS Sample Id: 661220-020 S

Prep Method: SW8015P

Date Prep: 05.12.2020

MSD Sample Id: 661220-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1110	111	1100	110	70-135	1	35	mg/kg	05.13.2020 13:45	
Diesel Range Organics (DRO)	<50.2	1000	1220	122	1060	106	70-135	14	35	mg/kg	05.13.2020 13:45	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	129		125		70-135	%	05.13.2020 13:45
o-Terphenyl	123		122		70-135	%	05.13.2020 13:45

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125711

MB Sample Id: 7703124-1-BLK

Matrix: Solid

LCS Sample Id: 7703124-1-BKS

Prep Method: SW5035A

Date Prep: 05.11.2020

LCSD Sample Id: 7703124-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.120	120	0.120	120	70-130	0	35	mg/kg	05.12.2020 03:36	
Toluene	<0.00200	0.100	0.109	109	0.110	110	70-130	1	35	mg/kg	05.12.2020 03:36	
Ethylbenzene	<0.00200	0.100	0.102	102	0.103	103	71-129	1	35	mg/kg	05.12.2020 03:36	
m,p-Xylenes	<0.00400	0.200	0.198	99	0.199	100	70-135	1	35	mg/kg	05.12.2020 03:36	
o-Xylene	<0.00200	0.100	0.103	103	0.103	103	71-133	0	35	mg/kg	05.12.2020 03:36	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	114		107		109		70-130	%	05.12.2020 03:36
4-Bromofluorobenzene	107		99		100		70-130	%	05.12.2020 03:36

Analytical Method: BTEX by EPA 8021B

Seq Number: 3125711

Parent Sample Id: 661172-005

Matrix: Soil

MS Sample Id: 661172-005 S

Prep Method: SW5035A

Date Prep: 05.11.2020

MSD Sample Id: 661172-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.122	121	0.0885	88	70-130	32	35	mg/kg	05.12.2020 10:22	
Toluene	<0.00202	0.101	0.110	109	0.0808	80	70-130	31	35	mg/kg	05.12.2020 10:22	
Ethylbenzene	<0.00202	0.101	0.102	101	0.0735	73	71-129	32	35	mg/kg	05.12.2020 10:22	
m,p-Xylenes	<0.00403	0.202	0.195	97	0.156	78	70-135	22	35	mg/kg	05.12.2020 10:22	
o-Xylene	<0.00202	0.101	0.103	102	0.0786	78	71-133	27	35	mg/kg	05.12.2020 10:22	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		110		70-130	%	05.12.2020 10:22
4-Bromofluorobenzene	101		104		70-130	%	05.12.2020 10:22

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

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

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

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



Chain of Custody

Work Order No:

2001181

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

www.xenenco.com

Page 1 of 1

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

Work Order Comments	
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	
State of Project:	
Reporting Level: I ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐	
Deliverables: EDD ☐ ADAPT ☐ Other:	

Project Name:	Nash Unit 301H	Turn Around	☒
Project Number:	012919216	Routine	☒
Project Location:	Eddy County	Rush:	
Sampler's Name:	Ezequiel Moreno	Due Date:	
PO #:		Quote #:	

SAMPLE RECEIPT		Temp Blank:	Yes ☒ No ☐	Well Ice:	Yes ☒ No ☐
Temperature (°C):	4.4	Thermometer ID	T-20004		
Received Intact:	Yes ☒ No ☐	Correction Factor:	-0.2		
Cooler Custody Seals:	Yes ☒ No ☐	Total Containers:	5		
Sample Custody Seals:	Yes ☒ No ☐				

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST	Preservative Codes
FS11A	S	5/11/20	1100	1.5'	1	X	X	X			MeOH: Me None: NO HNO3: HN H2SO4: H2 HCL: HL NaOH: Na Zn Acetate+ NaOH: Zn
FS12A	↓	↓	↓	↓	↓	↓	↓	↓			TAT starts the day received by the lab. If received by 4:00pm
FS13A	↓	↓	↓	↓	↓	↓	↓	↓			Sample Comments

Total 200.7 / 6010 200.8 / 6020:

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

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Pb Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn

1631 / 245.1 / 7470 / 7471 : Hg

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Ezequiel Moreno	Celler	5/11/20 15:20			

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 05.11.2020 03.20.00 PM

Work Order #: 661181

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : T-NM-007

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

Samples receive din bulk containers

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Elizabeth McClellan

Date: 05.11.2020

Checklist reviewed by:



Jessica Kramer

Date: 05.12.2020