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

Page 1 lof 81

Incident ID	NRM2010833956
District RP	
Facility ID	
Application ID	

-103.676255

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137				
Contact Name	Jennifer Knowlton	Contact Telephone	(575) 748-1570				
Contact email	JKnowlton@concho.com	Incident # (assigned by OCD)	NRM2010833956				
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701						

Location of Release Source

I	atitude
L	annuac

Longitude -104.09649

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Tank Battery					
Date Release Discovered March 30, 2020 API# (if applicable)						
Unit Letter	Section	Township	Range	County		
N ^o	21 4	25S 268	28E 32E	Eddy Lea		

Surface Owner: State X Federal Tribal Private (*Name:* BLM

32.11010 32.065554

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) 37	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
🗌 Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Dalassa	1	

Cause of Release

The release was caused by a third party connection failure.

A third party trucking company pickup oil from the COG - Myox Facility LACT Unit (32.11010, -104.09649) to transport to the Plains Pipeline- Red Hills Trucking Station located in Lea County. (32.0654, -103.6765 - Unit Letter O, Section 4, T26S, R32E, Surface Owner: BLM).

During unloading of the oil, the truck connection failed and released oil onto the Plains Red Hills Trucking Facility pad. All of the fluids remained on the facility pad. A vacuum truck was dispatched to remove all freestanding fluids.

Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

Page 2

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
19:10:29:1(11) 10:00100:	
Yes No	
If YES, was immediate ne	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

- The source of the release has been stopped.
- The impacted area has been secured to protect human health and the environment.
- Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have <u>not</u> been undertaken, explain why:

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

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

Printed Name Brittany N. Esparza	Title: HSE Administrative Assistant
Signature:	Date: 4/15/2020
email: besparza@concho.com	Telephone: (432) 221-0398
OCD Only	
Received by: Ramona Marcus	Date: 4/17/2020

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Page 3

eceived by OCD:	6/30/2020 12:08:07 PM State of New M	exico			Page 4 o
nge 4	Oil Conservation I			Incident ID	NRM2010833956
ige 4	On Conservation I			District RP	
				Facility ID	
				Application ID	
public health or th failed to adequatel addition, OCD acc and/or regulations.	Brittanv N. Esparza	port by the OCD does n at pose a threat to ground operator of responsibil	ot relieve the lwater, surfa lty for compl HSE Ac	operator of liability sho ce water, human health iance with any other fec dministrative Assist	ould their operations have or the environment. In deral, state, or local laws
Signature:	turned of	Date:	04/29/2	0	
email:	besparza@concho.com	Telephor	e: (432) 22	21-0398	
OCD Only Received by:		D	ate:		

Page 6

Oil Conservation Division

Incident ID	NRM2010833956
District RP	
Facility ID	
Application ID	

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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.

<u>Closure Report Attachment Checklist</u>: 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:	Brittany N. Esparza	Title:	HSE Administrative Assistant
Signature:	Brittany N. Esparza	Date:	04/29/20
email:	besparza@concho.com	Telephone: _	(432) 221-0398
OCD Only			
<u>OCD Olliy</u>			
Received by:		Date:	
remediate contami	nation that poses a threat to groundwater, sur	rface water, human l	buld their operations have failed to adequately investigate and nealth, or the environment nor does not relieve the responsible
party of compliant	ce with any other federal, state, or local laws	s and/or regulations.	
Closure Approved	by:	Da	te:
Printed Name:			le:



A proud member of WSP

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

April 29, 2020

District 1 New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240

RE: Closure Request Myox 21 State Com West CTB/ Red Hills Truck Station Incident Number NRM2010833956 Lea County, New Mexico

To Whom It May Concern:

LT Environmental, Inc. (LTE), on behalf of COG Operating, LLC (COG), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities related to a release associated with the Myox 21 State Com West CTB located in Unit N, Section 21, Township 25 South, Range 28 East, in Eddy County, New Mexico (Figure 1, inset). The purpose of the site assessment and soil sampling activities was to confirm the presence or absence of impacts to soil following the release of crude oil at the Plains Pipeline Red Hills Truck Station (Site) located in Unit O, Section 4, Township 26 South, Range 32 East, in Lea County, New Mexico (Figure 1). Based on field observations, field screenings, and laboratory analytical results from the soil sampling activities, Concho is submitting this Closure Request and requesting no further action (NFA) for Incident Number NRM2010833956.

RELEASE BACKGROUND

On March 30, 2020, a transport vehicle was transporting crude oil from the Myox 21 State Com West CTB to the Red Hills Trucking Station. While unloading the crude oil at the Site, the hose from the truck disconnected off the load out causing a release of 37 barrels (bbls) of crude oil onto the pad, immediately adjacent to several unloading stations at the Plains Pipeline Facility. An attempt to recover free-standing fluid was made by dispatching a hydrovac truck; however, no fluids were recovered. Plains Pipeline shut down two of the unloading stations until remediation work could be completed. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 on April 15, 2020 and was subsequently assigned Incident Number NRM2010833956.

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 approximately greater than 100



feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater well with depth to groundwater data is the United States Geological Survey (USGS) well number 320424103415401, located approximately 1.4 miles northwest from the Site. The groundwater well has a depth to groundwater of 290 feet bgs and a unknown total well depth. Within a 2.75 mile radius there are three New Mexico Office of the State Engineer (NM OSE) wells and three USGS wells all indicating regional depth to groundwater between 155 feet and 405 feet bgs. NM OSE well C-04209, located 2.5 miles west of the Site, was most recently measured in May 2018 and had a reported depth to water of 155 feet bgs. Utilizing the regional depth to water measurements, depth to water beneath the Site is estimated to be greater than 100 feet bgs. All referenced wells are depicted on Figure 1.

The closest continuously flowing water or significant watercourse to the Site is a unnamed dry wash located approximately 5,714 feet northeast 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 medium potential karst area and not underlain by unstable geology. The Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

SITE ASSESSMENT AND EXCAVATION ACTIVITIES

On April 3, 2020, LTE personnel inspected the Site to evaluate the release extent based on information provided by COG and visual observations. LTE personnel collected four preliminary soil samples (SS01 through SS04) from within the release extent at a depth of approximately 0.5 feet bgs to assess the lateral extent of impacts to 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.



Based on field screenings results of preliminary soil samples SS01 through SS04 and visual staining observed, excavation of soil within the release extent appeared warranted.

From April 6 to April 8, 2020, LTE personnel returned to the Site to oversee excavation activities. To direct excavation activities, LTE screened soil for volatile aromatic hydrocarbons and chloride. The release extent was excavated to depths ranging from approximately 0.5 feet to 2 feet bgs. Multiple marked and unmarked lines were found in the release extent, which were exposed by a hydrovac truck in a minimum of three locations spaced no farther than 20 feet apart. Contaminated soil on top of lines was excavated to approximately 0.5 feet bgs to avoid striking or decompressing buried lines. Areas near equipment that could not be excavated by mechanical means were power washed and impacted fluids were recovered. The excavation extent was approximately 3,270 square feet and an estimated 120 cubic yards of impacted soil were removed from the Site.

Following removal of impacted soil, LTE collected 5-point composite soil samples every 200 square feet from the sidewalls and floor 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 FS16 were collected from the floor of the excavation at depths ranging between approximately 0.5 feet and 2 feet bgs. Composite soil sample SW01 was collected from the sidewalls of the excavation from ground surface to approximately 2 feet bgs.

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

The excavation extent and excavation soil sample locations are depicted on Figure 3. Photographic documentation was conducted during excavation activities. Photographic logs are included in Attachment 1.

On April 10, 2020 LTE personnel resampled soil in the vicinity of composite floor soil samples FS03 and FS10 and labeled the resampled soil samples FS17 and FS18, respectively. The soil samples were collected, handled, and analyzed as described above and submitted to Xenco in Carlsbad, New Mexico..

On April 14, 2020 after reviewing laboratory analytical results from the confirmation soil samples and an understanding that Plains Pipeline needed to open up the two shutdown unloading



stations, the excavation was backfilled with clean backfill material. Photographic documentation was conducted during backfill activities and a photographic log is included in Attachment 1.

ANALYTICAL RESULTS

Following the excavation event, LTE collected confirmation soil samples within the excavation extent. Laboratory analytical results indicated benzene, BTEX, TPH-GRO and TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria in excavation soil samples FS01, FS02, FS04-FS09, FS11-16, and SW01. Soil samples FS03, and FS10 exceeded Closure Criteria and additional confirmation samples were collected at those locations. Confirmation samples FS17 and FS18 were collected in the vicinity of confirmation floor soil samples FS03 and FS10 respectively, and laboratory analytical results indicated TPH-GRO and TPH-DRO, and TPH concentrations were compliant with Closure Criteria. Laboratory analytical results are summarized in Table 1. The complete laboratory analytical reports are included as Attachment 2.

CONCLUSIONS

Initial and follow-up response efforts as a result of the crude oil release at the Site included excavation and removal of impacted soils and follow-up collection of soil samples. Preliminary soil samples were collected from within and around the release extent. Field screenings of soil samples SS01 through SS04 indicated TPH concentrations were likely greater than the Closure Criteria throughout the release extent. As a result, the release extent was excavated, removing impacted soils from the surface to depths ranging between 0.5 feet and 2 feet bgs. The excavation extent was approximately 3,270 square feet and an estimated 120 cubic yards of impacted soil were removed from the Site.

Laboratory analytical results for the final confirmation soil samples collected within the final excavation extent indicated benzene, BTEX, TPH-GRO and TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

The excavation occurred at a third-party location, immediately adjacent to unloading station equipment and numerous buried pipelines. Operations at the Site were limited while remediation of the release was ongoing. In order to reduce impacts to operations and ensure timely remediation of the release, impacted soils were removed from the Site within a week of the release date. In addition, regional depth to water was determined to be greater than 100 feet bgs, based on eight water wells near the Site, in order to identify the Site-specific Closure Criteria. Based on these factors, LTE and COG believe impacts to human health, the environment, and groundwater have been sufficiently mitigated, and respectfully requests closure and NFA for Incident Number NRM2010833956.

If you have any questions or comments, please do not hesitate to contact Mr. Dan Moir at (432) 236-3849.



Sincerely,

LT ENVIRONMENTAL, INC.

W. Mrs

William Mather Staff Environmental Scientist

Dan Moir, P.G. Senior Geologist

cc: Ike Tavares, COG Amber Groves, Plains Pipeline, L.P. Paul Dorsett, BML, Inc. Rich Harness, LMH Environmental, Inc. Jim Amos, Bureau of Land Management (BLM) Robert Hamlet, NMOCD Victoria Venegas, NMOCD

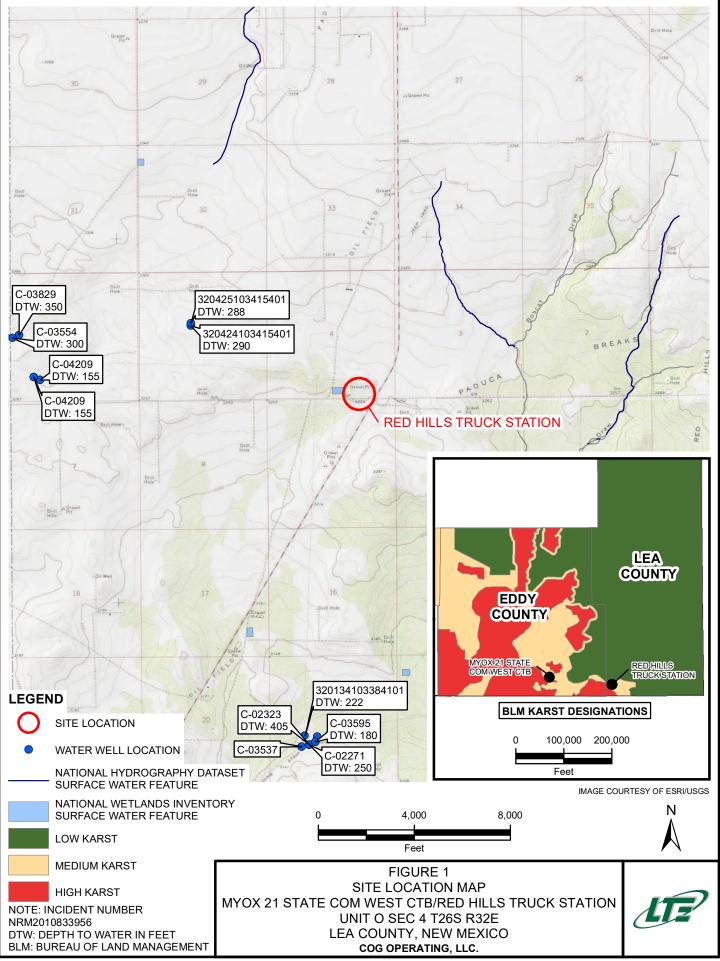
Appendices:

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

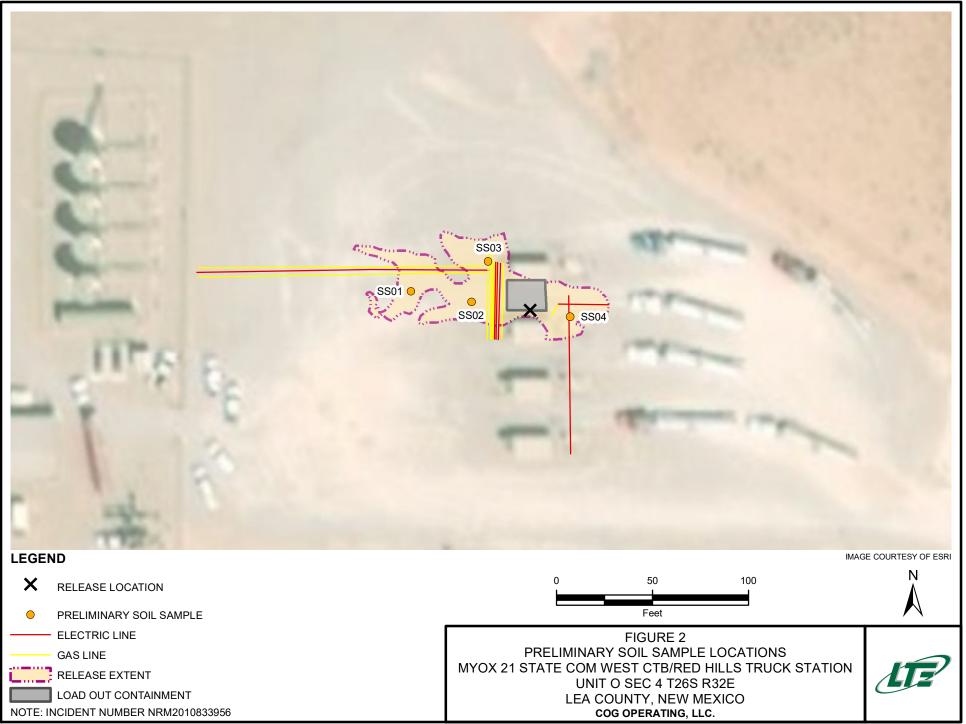
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FIGURES

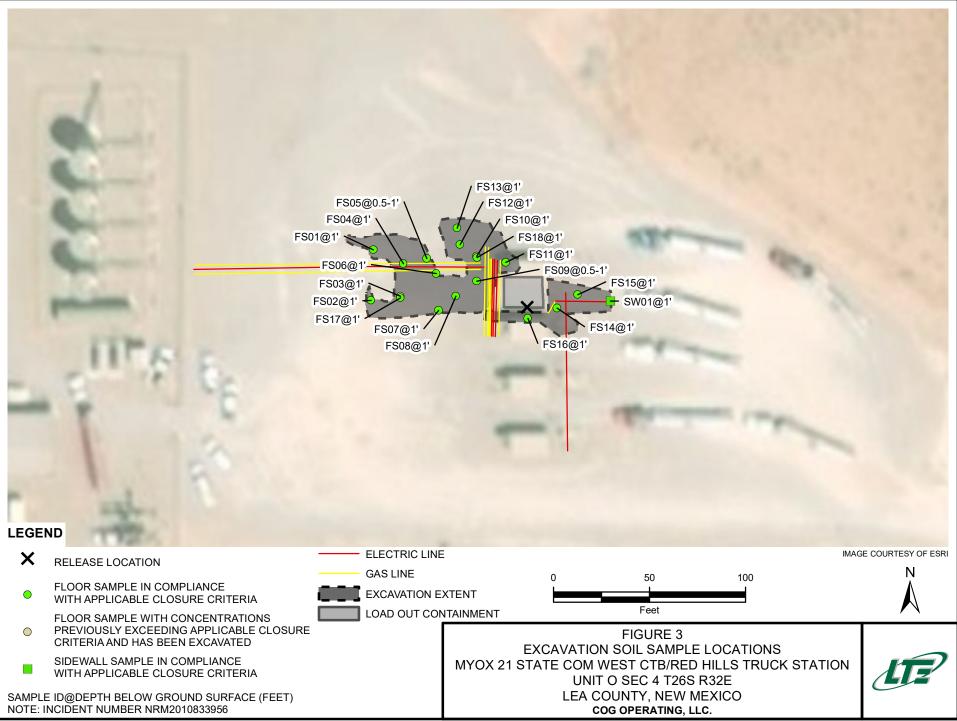




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P:\BML, Inc\GIS\MXD\103020001_RED HILLS\103020001_FIG03_EXCAVATION_2020.mxd

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TABLES



TABLE 1 SOIL ANALYTICAL RESULTS

MYOX 21 STATE COM WEST CTB/ RED HILLS TRUCK STATION INCIDENT NUMBER NRM2010833956 LEA COUNTY, NEW MEXICO COG, 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 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
FS01	1	04/08/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	81.4	<50.0	81.4	81.4	71.2
FS02	1	04/08/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	76.2	<50.0	76.2	76.2	37.8
FS03	1	04/10/2020	<0.00198	0.00828	0.00738	0.0662	0.0819	<50.1	1,300	113	1,300	1,410	82.1
FS17	1	04/10/2020	N/A	N/A	N/A	N/A	N/A	<50.2	415	<50.2	415	415	N/A
FS04	1	04/08/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	310	<50.1	310	310	99.3
FS05	0.5 - 1	04/08/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	141	<50.1	141	141	121
FS06	1	04/08/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	254	<49.8	254	254	116
FS07	1	04/08/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	166	<50.1	166	166	82.5
FS08	1	04/08/2020	<0.00200	<0.00200	<0.00200	0.0353	0.0353	<50.0	507	<50.0	507	507	56.8
FS09	0.5 - 1	04/08/2020	<0.00199	<0.00199	<0.00199	0.0154	0.0154	<50.1	669	69.1	669	738	99.8
FS10	1	04/10/2020	<0.00198	<0.00198	<0.00198	0.0382	0.0382	<50.2	1,220	112	1,220	1,330	109
FS18	1	04/10/2020	N/A	N/A	N/A	N/A	N/A	<50.2	<50.2	<50.2	<50.2	<50.2	N/A
FS11	1	04/08/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	340	<50.0	340	340	113
FS12	1	04/08/2020	<0.00202	<0.00202	<0.00202	0.00657	0.00657	<49.9	71.7	<49.9	71.7	71.7	33.8
FS13	1	04/08/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	183	<50.3	183	183	40.2
FS14	1	04/08/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	13.3



TABLE 1 SOIL ANALYTICAL RESULTS

MYOX 21 STATE COM WEST CTB/ RED HILLS TRUCK STATION INCIDENT NUMBER NRM2010833956 LEA COUNTY, NEW MEXICO COG, 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 Closur	e Criteria	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
FS15	1	04/08/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	66.7	<50.2	66.7	66.7	45.8
FS16	1	04/08/2020	<0.0189	<0.0189	<0.0189	<0.0189	<0.0189	<50.1	96.8	<50.1	96.8	96.8	61.2
SW01	1	04/08/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	18.1

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 N/A- not analyzed

Text - indicates soil from sample was removed



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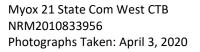




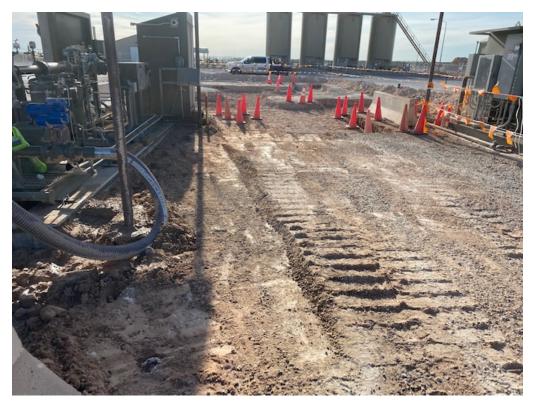
Photograph 1: View of release near equipment facing west.



Photograph 2: View of release extent on pad facing southeast.







Photograph 3: View of excavation in between equipment facing west.



Photograph 4: View of excavation facing east.

Myox 21 State Com West CTB NRM2010833956 Photographs Taken: April 6, 2020 – April 8, 2020

Page 2 of 4





Photograph 5: View of excavation east of equipment facing northeast.



Photograph 6: View of excavation facing east.

Page 3 of 4





Photograph 7: View of final backfill facing east.



Photograph 8: View of final backfill facing west.



Page 4 of 4



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ATTACHMENT 2: LABORATORY ANALYTICAL REPORTS





Analytical Report 658406

for

LT Environmental, Inc.

Project Manager: Dan Moir

Red Hills

103020001

04.10.2020

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



04.10.2020

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

Reference: XENCO Report No(s): **658406 Red Hills** Project Address: Lea

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) 658406. 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. 658406 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,

Jession Vermer

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 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	04.08.2020 11:10	1 ft	658406-001
FS02	S	04.08.2020 12:30	1 ft	658406-002
FS03	S	04.08.2020 12:34	1 ft	658406-003
FS04	S	04.08.2020 12:37	1 ft	658406-004
FS05	S	04.08.2020 12:39	0.5 - 1 ft	658406-005
FS06	S	04.08.2020 12:55	1 ft	658406-006
FS07	S	04.08.2020 12:58	1 ft	658406-007
FS08	S	04.08.2020 13:56	1 ft	658406-008
FS09	S	04.08.2020 14:42	0.5 - 1 ft	658406-009
FS10	S	04.08.2020 14:54	1 ft	658406-010
FS11	S	04.08.2020 14:58	1 ft	658406-011
FS12	S	04.08.2020 15:02	1 ft	658406-012
FS13	S	04.08.2020 15:08	1 ft	658406-013
FS14	S	04.08.2020 17:42	1 ft	658406-014
FS15	S	04.08.2020 18:14	1 ft	658406-015
FS16	S	04.08.2020 19:32	1 ft	658406-016
SW01	S	04.08.2020 17:54	1 ft	658406-017



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: Red Hills

 Project ID:
 103020001

 Work Order Number(s):
 658406

 Report Date:
 04.10.2020

 Date Received:
 04.09.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments: Batch: LBA-3122568 BTEX by EPA 8021B Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Analysis Requested



Project Id: 103020001

Contact: Dan Moir

Project Location: Lea

Total GRO-DRO

Total TPH

Certificate of Analysis Summary 658406

LT Environmental, Inc., Arvada, CO

Project Name: Red Hills

 Date Received in Lab:
 Thu 04.09.2020 08:55

 Report Date:
 04.10.2020 11:18

 Project Manager:
 Jessica Kramer

658406-002 658406-003 658406-004 658406-005 658406-006 FS02 FS03 FS04 FS05 FS06 1- ft 1- ft 0.5-1 ft 1- ft 1- ft SOIL SOIL SOIL SOIL SOIL 04.08.2020 12:30 04.08.2020 12:34 04.08.2020 12:37 04.08.2020 12:39 04.08.2020 12:55

	_												
BTEX by EPA 8021B	Extracted:	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00
	Analyzed:	04.09.2020	14:07	04.09.2020	14:27	04.09.2020	14:47	04.09.2020	15:08	04.09.2020	15:28	04.09.2020	15:49
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		< 0.00199	0.00199	< 0.00199	0.00199	< 0.00198	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
Toluene		< 0.00199	0.00199	< 0.00199	0.00199	0.00828	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
Ethylbenzene		< 0.00199	0.00199	< 0.00199	0.00199	0.00738	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
m,p-Xylenes		< 0.00398	0.00398	< 0.00398	0.00398	0.0481	0.00397	< 0.00401	0.00401	< 0.00399	0.00399	< 0.00402	0.00402
o-Xylene		< 0.00199	0.00199	< 0.00199	0.00199	0.0181	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
Xylenes, Total		< 0.00199	0.00199	< 0.00199	0.00199	0.0662	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
Total BTEX		< 0.00199	0.00199	< 0.00199	0.00199	0.0819	0.00198	< 0.00200	0.00200	< 0.00200	0.00200	< 0.00201	0.00201
TOTALDIEA													
Chloride by EPA 300	Extracted:	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00
	Extracted: Analyzed:	04.09.2020 04.09.2020		04.09.2020 04.09.2020		04.09.2020 04.09.2020		04.09.2020 04.09.2020		04.09.2020 04.09.2020		04.09.2020 04.09.2020	
	Analyzed:	04.09.2020	11:54	04.09.2020	12:13	04.09.2020	12:20	04.09.2020	12:26	04.09.2020	12:32	04.09.2020	12:53
Chloride by EPA 300	Analyzed:	04.09.2020 mg/kg	11:54 RL 9.96	04.09.2020 mg/kg	12:13 RL 9.96	04.09.2020 mg/kg	12:20 RL 9.96	04.09.2020 mg/kg	12:26 RL 9.98	04.09.2020 mg/kg	12:32 RL 10.0	04.09.2020 mg/kg	12:53 RL 9.98
Chloride by EPA 300 Chloride	Analyzed: Units/RL:	04.09.2020 mg/kg 71.2	11:54 RL 9.96 12:44	04.09.2020 mg/kg 37.8	12:13 RL 9.96 12:44	04.09.2020 mg/kg 82.1	12:20 RL 9.96 12:44	04.09.2020 mg/kg 99.3	12:26 RL 9.98 12:44	04.09.2020 mg/kg 121	12:32 RL 10.0 12:44	04.09.2020 mg/kg 116	12:53 RL 9.98 12:44
Chloride by EPA 300 Chloride	Analyzed: Units/RL: Extracted:	04.09.2020 mg/kg 71.2 04.09.2020	11:54 RL 9.96 12:44	04.09.2020 mg/kg 37.8 04.09.2020	12:13 RL 9.96 12:44	04.09.2020 mg/kg 82.1 04.09.2020	12:20 RL 9.96 12:44	04.09.2020 mg/kg 99.3 04.09.2020	12:26 RL 9.98 12:44	04.09.2020 mg/kg 121 04.09.2020	12:32 RL 10.0 12:44	04.09.2020 mg/kg 116 04.09.2020	12:53 RL 9.98 12:44
Chloride by EPA 300 Chloride	Analyzed: Units/RL: Extracted: Analyzed:	04.09.2020 mg/kg 71.2 04.09.2020 04.09.2020	11:54 RL 9.96 12:44 14:06	04.09.2020 mg/kg 37.8 04.09.2020 04.09.2020	12:13 RL 9.96 12:44 15:07	04.09.2020 mg/kg 82.1 04.09.2020 04.09.2020	12:20 RL 9.96 12:44 15:28	04.09.2020 mg/kg 99.3 04.09.2020 04.09.2020	12:26 RL 9.98 12:44 15:48	04.09.2020 mg/kg 121 04.09.2020 04.09.2020	12:32 RL 10.0 12:44 16:08	04.09.2020 mg/kg 116 04.09.2020 04.09.2020	12:53 RL 9.98 12:44 16:29
Chloride by EPA 300 Chloride TPH by SW8015 Mod	Analyzed: Units/RL: Extracted: Analyzed:	04.09.2020 mg/kg 71.2 04.09.2020 04.09.2020 mg/kg	11:54 RL 9.96 12:44 14:06 RL	04.09.2020 mg/kg 37.8 04.09.2020 04.09.2020 mg/kg	12:13 RL 9.96 12:44 15:07 RL	04.09.2020 mg/kg 82.1 04.09.2020 04.09.2020 mg/kg	12:20 RL 9.96 12:44 15:28 RL	04.09.2020 mg/kg 99.3 04.09.2020 04.09.2020 mg/kg	12:26 RL 9.98 12:44 15:48 RL	04.09.2020 mg/kg 121 04.09.2020 04.09.2020 mg/kg	12:32 RL 10.0 12:44 16:08 RL	04.09.2020 mg/kg 116 04.09.2020 04.09.2020 mg/kg	12:53 RL 9.98 12:44 16:29 RL

76.2

76.2

50.0

50.0

1300

1410

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

Lab Id:

Field Id:

Depth:

Matrix:

Sampled:

658406-001

FS01

1- ft

SOIL

04.08.2020 11:10

81.4

81.4

50.0

50.0

50.1

50.1

49.8

49.8

254

254

Jessica Kramer Project Manager

Final 1.000

310

310

50.1

50.1

141

141



Project Id: 103020001

Contact: Dan Moir

Project Location: Lea

Certificate of Analysis Summary 658406

LT Environmental, Inc., Arvada, CO

Project Name: Red Hills

 Date Received in Lab:
 Thu 04.09.2020 08:55

 Report Date:
 04.10.2020 11:18

 Project Manager:
 Jessica Kramer

Lab Id: 658406-007 658406-008 658406-009 658406-010 658406-011 658406-012 Field Id: FS07 FS08 FS09 FS10 FS11 FS12 Analysis Requested Depth: 1- ft 1- ft 0.5-1 ft 1- ft 1- ft 1- ft Matrix: SOIL SOIL SOIL SOIL SOIL SOIL 04.08.2020 13:56 04.08.2020 14:54 04.08.2020 14:58 04.08.2020 15:02 Sampled: 04.08.2020 12:58 04.08.2020 14:42 BTEX by EPA 8021B 04.09.2020 11:00 04.09.2020 11:00 04.09.2020 11:00 04.09.2020 11:00 04.09.2020 11:00 Extracted: 04.09.2020 11:00 Analyzed: 04.09.2020 16:09 04.09.2020 16:30 04.09.2020 16:50 04.09.2020 17:10 04.09.2020 18:32 04.09.2020 18:53 RL RL RL RL RL RL Units/RL: mg/kg mg/kg mg/kg mg/kg mg/kg mg/kg < 0.00200 < 0.00199 0.00199 < 0.00199 0.00199 < 0.00202 0.00202 < 0.00199 0.00199 0.00200 < 0.00198 0.00198 Benzene < 0.00200 0.00200 < 0.00199 0.00199 < 0.00198 0.00198 < 0.00199 0.00199 < 0.00202 0.00202 Toluene < 0.00199 0.00199 < 0.00199 0.00199 < 0.00200 0.00200 < 0.00199 0.00199 < 0.00198 0.00198 < 0.00199 0.00199 < 0.00202 0.00202 Ethylbenzene 0.00398 0.0241 0.00399 0.0102 0.00398 0.0255 0.00396 < 0.00398 0.00398 0.00657 0.00404 < 0.00398 m,p-Xylenes 0.0127 o-Xylene < 0.00199 0.00199 0.0112 0.00200 0.00516 0.00199 0.00198 < 0.00199 0.00199 < 0.00202 0.00202 0.00199 0.0353 0.00200 0.0154 0.00199 0.0382 0.00198 < 0.00199 0.00199 0.00657 0.00202 < 0.00199 Xylenes, Total Total BTEX < 0.00199 0.00199 0.0353 0.00200 0.0154 0.00199 0.0382 0.00198 < 0.00199 0.00199 0.00657 0.00202 Chloride by EPA 300 Extracted: 04.09.2020 11:00 04.09.2020 11:00 04.09.2020 11:00 04.09.2020 11:00 04.09.2020 11:00 04.09.2020 11:00 04.09.2020 12:59 04.09.2020 13:05 04.09.2020 13:12 04.09.2020 13:18 04.09.2020 13:24 04.09.2020 13:44 Analyzed: RL RL RL RL RL Units/RL: mg/kg mg/kg mg/kg RL mg/kg mg/kg mg/kg Chloride 82.5 9.96 56.8 10.0 99.8 9.96 109 10.1 113 9.96 33.8 10.0 TPH by SW8015 Mod Extracted: 04.09.2020 12:44 04.09.2020 12:44 04.09.2020 12:44 04.09.2020 12:44 04.09.2020 12:44 04.09.2020 12:44 Analyzed: 04.09.2020 16:50 04.09.2020 17:10 04.09.2020 17:31 04.09.2020 17:51 04.09.2020 18:32 04.09.2020 18:52 RL mg/kg RL RL RL mg/kg RL mg/kg RL Units/RL: mg/kg mg/kg mg/kg Gasoline Range Hydrocarbons (GRO) < 50.150.1 < 50.0 50.0 < 50.1 50.1 < 50.2 50.2 < 50.0 50.0 <49.9 49.9 71.7 Diesel Range Organics (DRO) 166 50.1 507 50.0 669 50.1 1220 50.2 340 50.0 49.9 Motor Oil Range Hydrocarbons (MRO) < 50.1 50.1 < 50.0 50.0 69.1 50.1 112 50.2 <50.0 50.0 <49.9 49.9 Total GRO-DRO 50.1 507 50.0 669 50.1 1220 50.2 340 50.0 71.7 49.9 166 Total TPH 507 738 1330 340 71.7 49.9 166 50.1 50.0 50.1 50.2 50.0

Page 6 of 47

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

Jessica Kramer Project Manager

Final 1.000



Project Id: 103020001

Contact: Dan Moir

Project Location: Lea

Certificate of Analysis Summary 658406

LT Environmental, Inc., Arvada, CO

Project Name: Red Hills

 Date Received in Lab:
 Thu 04.09.2020 08:55

 Report Date:
 04.10.2020 11:18

 Project Manager:
 Jessica Kramer

	Lab Id:	658406-0	013	658406-0	14	658406-0)15	658406-0	16	658406-0	17	
Analysis Requested	Field Id:	FS13		FS14		FS15		FS16		SW01		
Analysis Kequestea	Depth:	1- ft		1- ft		1- ft		1- ft		1- ft		
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	04.08.2020	15:08	04.08.2020	17:42	04.08.2020	18:14	04.08.2020	19:32	04.08.2020	17:54	
BTEX by EPA 8021B	Extracted:	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	
	Analyzed:	04.09.2020	19:13	04.09.2020	19:34	04.09.2020	19:54	04.09.2020	20:14	04.09.2020	20:35	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Benzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.0189	0.0189	< 0.00200	0.00200	
Toluene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.0189	0.0189	< 0.00200	0.00200	
Ethylbenzene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.0189	0.0189	< 0.00200	0.00200	
m,p-Xylenes		< 0.00401	0.00401	< 0.00402	0.00402	< 0.00400	0.00400	< 0.0377	0.0377	< 0.00399	0.00399	
o-Xylene		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.0189	0.0189	< 0.00200	0.00200	
Xylenes, Total		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.0189	0.0189	< 0.00200	0.00200	
Total BTEX		< 0.00200	0.00200	< 0.00201	0.00201	< 0.00200	0.00200	< 0.0189	0.0189	< 0.00200	0.00200	
Chloride by EPA 300	Extracted:	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	04.09.2020	11:00	
	Analyzed:	04.09.2020	13:50	04.09.2020	14:09	04.09.2020	14:16	04.09.2020	14:22	04.09.2020	14:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		40.2	9.98	13.3	10.1	45.8	10.1	61.2	10.1	18.1	10.1	
TPH by SW8015 Mod	Extracted:	04.09.2020	12:44	04.09.2020	12:44	04.09.2020	12:44	04.09.2020	12:44	04.09.2020	12:44	
	Analyzed:	04.09.2020	19:13	04.09.2020	19:33	04.09.2020	19:54	04.09.2020	20:14	04.09.2020	20:34	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3	<49.9	49.9	<50.2	50.2	<50.1	50.1	<50.2	50.2	
Diesel Range Organics (DRO)		183	50.3	<49.9	49.9	66.7	50.2	96.8	50.1	<50.2	50.2	
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3	<49.9	49.9	<50.2	50.2	<50.1	50.1	<50.2	50.2	
Total GRO-DRO		183	50.3	<49.9	49.9	66.7	50.2	96.8	50.1	<50.2	50.2	
Total TPH		183	50.3	<49.9	49.9	66.7	50.2	96.8	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

fession kenner

Jessica Kramer Project Manager

Final 1.000



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id:	FS01		Matrix:	Soil		Date Received:04.09.2020 08:55			
Lab Sample I	d: 658406-001		Date Col	lected: 04.08.2020 11:1	0	Sample Depth: 1 f	ť		
Analytical M	ethod: Chloride by EP.	A 300				Prep Method: E3	00P		
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Pre	p: 04.09.2020 11:0	00	Basis: W	et Weight		
Seq Number:	3122580								
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	71.2	9.96	mg/kg	04.09.2020 11:54		1	

Analytical Method: TPH by SW801	5 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 04	.09.2020 12:44		Basis: V	Vet Weight	
Seq Number: 3122574								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.09.2020 14:0	6 U	1
Diesel Range Organics (DRO)	C10C28DRO	81.4	50.0		mg/kg	04.09.2020 14:0	6	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	04.09.2020 14:0	6 U	1
Total GRO-DRO	PHC628	81.4	50.0		mg/kg	04.09.2020 14:0	6	1
Total TPH	PHC635	81.4	50.0		mg/kg	04.09.2020 14:0	6	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Da	ite Flag	
1-Chlorooctane		111-85-3	111	%	70-135	04.09.2020 14	:06	
o-Terphenyl		84-15-1	120	%	70-135	04.09.2020 14	:06	



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO Red Hills

Sample Id:	FS01	Matrix:	Soil	Date Received	1:04.09.2020 08:55
Lab Sample Id	I: 658406-001	Date Collected	d: 04.08.2020 11:10	Sample Depth	:: 1 ft
Analytical Me Tech: Analyst: Seq Number:	thod: BTEX by EPA 8021B MAB MAB 3122568	Date Prep:	04.09.2020 11:00	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.09.2020 14:07	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.09.2020 14:07	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.09.2020 14:07	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.09.2020 14:07	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.09.2020 14:07	U	1
Xylenes, Total	1330-20-7	< 0.00199	0.00199		mg/kg	04.09.2020 14:07	U	1
Total BTEX		<0.00199	0.00199		mg/kg	04.09.2020 14:07	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	04.09.2020 14:07		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.09.2020 14:07		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id:	FS02		Matrix:	Soil		Date Received:04.09.2020 08:			
Lab Sample I	d: 658406-002		Date Col	lected: 04.08.2020 12:30	1	Sample Depth:	1 ft		
Analytical Me	ethod: Chloride by EP.	A 300				Prep Method:	E300P		
Tech:	MAB					% Moisture:			
Analyst:	MAB		Date Pre	p: 04.09.2020 11:00		Basis:	Wet Weight		
Seq Number:	3122580								
Parameter		Cas Number	Result	RL	Units	Analysis Dat	te Flag	Dil	
Chloride		16887-00-6	37.8	9.96	mg/kg	04.09.2020 12:	13	1	

Analytical Method: TPH by SW801	5 Mod					Prep Method: S	SW8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 04	.09.2020 12:44		Basis: V	Wet Weight	
Seq Number: 3122574								
Parameter	Cas Number	r Result	RL		Units	Analysis Date	e Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.09.2020 15:0)7 U	1
Diesel Range Organics (DRO)	C10C28DRO	76.2	50.0		mg/kg	04.09.2020 15:0)7	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	04.09.2020 15:0	07 U	1
Total GRO-DRO	PHC628	76.2	50.0		mg/kg	04.09.2020 15:0)7	1
Total TPH	PHC635	76.2	50.0		mg/kg	04.09.2020 15:0)7	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Da	ate Flag	
1-Chlorooctane		111-85-3	116	%	70-135	04.09.2020 15	5:07	
o-Terphenyl		84-15-1	125	%	70-135	04.09.2020 15	5:07	



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO Red Hills

Sample Id: Lab Sample I	FS02 d: 658406-002	Matrix: Date Collected	Soil d: 04.08.2020 12:30	Date Received:04.09.2020 0 Sample Depth: 1 ft Prep Method: SW5030B % Moisture: Basis: Wet Weight	
Analytical Ma Tech: Analyst: Seq Number:	ethod: BTEX by EPA 8021B MAB MAB 3122568	Date Prep:	04.09.2020 11:00	% Moisture:	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.09.2020 14:27	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.09.2020 14:27	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.09.2020 14:27	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.09.2020 14:27	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.09.2020 14:27	U	1
Xylenes, Total	1330-20-7	< 0.00199	0.00199		mg/kg	04.09.2020 14:27	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.09.2020 14:27	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.09.2020 14:27		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.09.2020 14:27		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id: FS03 Lab Sample Id: 658406-003	Matrix: Date Collect	Soil ed: 04.08.2020 12:34		Date Received:04.09.2020 08:55 Sample Depth: 1 ft			
Analytical Method:Chloride byTech:MABAnalyst:MABSeq Number:3122580	EPA 300	Date Prep:	04.09.2020 11:00		Prep Method: E30 % Moisture: Basis: We	00P t Weight	
Parameter	Cas Number	Result R	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	82.1	9.96	mg/kg	04.09.2020 12:20		1
Analytical Method: TPH by SW	8015 Mod				Prep Method: SW	/8015P	
Tech: DTH					% Moisture:		
Analyst: DTH		Date Prep:	04.09.2020 12:44		Basis: We	t Weight	
Seq Number: 3122574							
Parameter	Cas Number	Result D	T	Unite	Analysis Data	Flag	Dil

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	04.09.2020 15:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	1300	50.1		mg/kg	04.09.2020 15:28		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	113	50.1		mg/kg	04.09.2020 15:28		1
Total GRO-DRO	PHC628	1300	50.1		mg/kg	04.09.2020 15:28		1
Total TPH	PHC635	1410	50.1		mg/kg	04.09.2020 15:28		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	116	%	70-135	04.09.2020 15:28		
o-Terphenyl		84-15-1	124	%	70-135	04.09.2020 15:28		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO Red Hills

Sample Id:	FS03		Matrix:	Soil	Date Recei	ved:04.09.2020 08	:55		
Lab Sample Id: 658406-003			Date Collected	d: 04.08.2020 12:34	Sample De	Sample Depth: 1 ft			
Analytical Me	ethod: BTEX by EPA 80	21B			Prep Metho	od: SW5030B			
Tech:	MAB				% Moisture	:			
Analyst:	MAB		Date Prep:	04.09.2020 11:00	Basis:	Wet Weight			
Seq Number:	3122568								
Parameter		Cas Number	Result RI		Units Analysis	Data Flag	Dil		

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	04.09.2020 14:47	U	1
Toluene	108-88-3	0.00828	0.00198		mg/kg	04.09.2020 14:47		1
Ethylbenzene	100-41-4	0.00738	0.00198		mg/kg	04.09.2020 14:47		1
m,p-Xylenes	179601-23-1	0.0481	0.00397		mg/kg	04.09.2020 14:47		1
o-Xylene	95-47-6	0.0181	0.00198		mg/kg	04.09.2020 14:47		1
Xylenes, Total	1330-20-7	0.0662	0.00198		mg/kg	04.09.2020 14:47		1
Total BTEX		0.0819	0.00198		mg/kg	04.09.2020 14:47		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	102	%	70-130	04.09.2020 14:47		
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.09.2020 14:47		



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LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id:FS04Lab Sample Id:658406-004		Matrix: Date Collec	Soil ted: 04.08.2020 12:37	Date Received:04.09.2020 Sample Depth: 1 ft			:55
Analytical Method:Chloride by ETech:MABAnalyst:MABSeq Number:3122580	PA 300	Date Prep:	04.09.2020 11:00		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride	16887-00-6	99.3	9.98	mg/kg	04.09.2020 12	2:26	1

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	04.09.2020 15:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	310	50.1		mg/kg	04.09.2020 15:48		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	04.09.2020 15:48	U	1
Total GRO-DRO	PHC628	310	50.1		mg/kg	04.09.2020 15:48		1
Total TPH	PHC635	310	50.1		mg/kg	04.09.2020 15:48		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	115	%	70-135	04.09.2020 15:48		
o-Terphenyl		84-15-1	122	%	70-135	04.09.2020 15:48		



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LT Environmental, Inc., Arvada, CO Red Hills

Sample Id: FS04	Matrix: Soil	Date Received:04.09.2020 08:55
Lab Sample Id: 658406-004	Date Collected: 04.08.2020 12	Sample Depth: 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3122568	Date Prep: 04.09.2020 11	Prep Method: SW5030B % Moisture: :00 Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.09.2020 15:08	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.09.2020 15:08	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.09.2020 15:08	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	04.09.2020 15:08	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.09.2020 15:08	U	1
Xylenes, Total	1330-20-7	< 0.00200	0.00200		mg/kg	04.09.2020 15:08	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.09.2020 15:08	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.09.2020 15:08		
1,4-Difluorobenzene		540-36-3	103	%	70-130	04.09.2020 15:08		



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LT Environmental, Inc., Arvada, CO

Red Hills

Lab Sample Id: 6	58406-005		Matrix: Date Colle	Soil ected: 04.08.2020 12:39	Date Received:04.09.2020 39 Sample Depth: 0.5 - 1 ft			:55
Tech: M Analyst: M	d: Chloride by EPA 3 AB AB 22580	00	Date Prep	: 04.09.2020 11:00		Prep Method: E3 % Moisture: Basis: Wo	00P et Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	121	10.0	mg/kg	04.09.2020 12:32		1

Analytical Method:TPH by SW80Tech:DTHAnalyst:DTHSeq Number:3122574	15 Mod	Date P	'rep: 04	.09.2020 12:44		Prep Method: S % Moisture: Basis: W	W8015P Vet Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	04.09.2020 16:03	8 U	1
Diesel Range Organics (DRO)	C10C28DRO	141	50.1		mg/kg	04.09.2020 16:03	8	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	04.09.2020 16:03	8 U	1
Total GRO-DRO	PHC628	141	50.1		mg/kg	04.09.2020 16:03	8	1
Total TPH	PHC635	141	50.1		mg/kg	04.09.2020 16:03	8	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	127	%	70-135	04.09.2020 16	:08	
o-Terphenyl		84-15-1	134	%	70-135	04.09.2020 16	:08	



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Sample Id: FS05	Matrix: Soil	Date Received:04.09.2020 08:55
Lab Sample Id: 658406-005	Date Collected: 04.08.2020 12:3	9 Sample Depth: 0.5 - 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3122568	Date Prep: 04.09.2020 11:0	Prep Method: SW5030B % Moisture: 0 Basis: Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.09.2020 15:28	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.09.2020 15:28	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.09.2020 15:28	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.09.2020 15:28	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.09.2020 15:28	U	1
Xylenes, Total	1330-20-7	< 0.00200	0.00200		mg/kg	04.09.2020 15:28	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.09.2020 15:28	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	04.09.2020 15:28		
4-Bromofluorobenzene		460-00-4	97	%	70-130	04.09.2020 15:28		



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LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id: FS06 Lab Sample Id: 658406-006		Matrix: Date Collec	Soil ted: 04.08.2020 12:55		Date Received Sample Depth:		3:55
Analytical Method:Chloride ITech:MABAnalyst:MABSeq Number:3122580	by EPA 300	Date Prep:	04.09.2020 11:00		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter	Cas Number	Result 1	RL	Units	Analysis Da	te Flag	Dil
Chloride	16887-00-6	116	9.98	mg/kg	04.09.2020 12	::53	1
Analytical Method: TPH by S	W8015 Mod				Prep Method:	SW8015P	

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8		mg/kg	04.09.2020 16:29	U	1
Diesel Range Organics (DRO)	C10C28DRO	254	49.8		mg/kg	04.09.2020 16:29		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8		mg/kg	04.09.2020 16:29	U	1
Total GRO-DRO	PHC628	254	49.8		mg/kg	04.09.2020 16:29		1
Total TPH	PHC635	254	49.8		mg/kg	04.09.2020 16:29		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	115	%	70-135	04.09.2020 16:29		
o-Terphenyl		84-15-1	126	%	70-135	04.09.2020 16:29		



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LT Environmental, Inc., Arvada, CO

Sample Id: FS06	Matrix: Soil	2020 12:55	Date Received	:04.09.2020 08:55
Lab Sample Id: 658406-006	Date Collected: 04.08.		Sample Depth:	: 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3122568	Date Prep: 04.09.	2020 11:00	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.09.2020 15:49	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.09.2020 15:49	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.09.2020 15:49	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.09.2020 15:49	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.09.2020 15:49	U	1
Xylenes, Total	1330-20-7	< 0.00201	0.00201		mg/kg	04.09.2020 15:49	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.09.2020 15:49	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	106	%	70-130	04.09.2020 15:49		
4-Bromofluorobenzene		460-00-4	97	%	70-130	04.09.2020 15:49		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id: Lab Sample Id	FS07 l: 658406-007		Matrix: Date Colle	Soil cted: 04.08.2020 12:58		Date Received Sample Depth	1:04.09.2020 08 : 1 ft	3:55
Analytical Me Tech: Analyst: Seq Number:	thod: Chloride by EPA MAB MAB 3122580	300	Date Prep:	04.09.2020 11:00		Prep Method: % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Da	ate Flag	Dil
Chloride		16887-00-6	82.5	9.96	mg/kg	04.09.2020 12	2:59	1
Analytical Me Tech: Analyst: Seq Number:	thod: TPH by SW8015 DTH DTH 3122574	Mod	Date Prep:	04.09.2020 12:44		Prep Method: % Moisture: Basis:	SW8015P Wet Weight	

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	04.09.2020 16:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	166	50.1		mg/kg	04.09.2020 16:50		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	04.09.2020 16:50	U	1
Total GRO-DRO	PHC628	166	50.1		mg/kg	04.09.2020 16:50		1
Total TPH	PHC635	166	50.1		mg/kg	04.09.2020 16:50		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	114	%	70-135	04.09.2020 16:50		
o-Terphenyl		84-15-1	124	%	70-135	04.09.2020 16:50		



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LT Environmental, Inc., Arvada, CO Red Hills

Sample Id: FS07	Matrix:	Soil	Date Received:04.09.2020 08:55		
Lab Sample Id: 658406-007	Date Collecte	d: 04.08.2020 12:58	Sample Depth: 1 ft		
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3122568	Date Prep:	04.09.2020 11:00	Prep Method: % Moisture: Basis:	SW5030B Wet Weight	

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.09.2020 16:09	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.09.2020 16:09	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.09.2020 16:09	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.09.2020 16:09	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.09.2020 16:09	U	1
Xylenes, Total	1330-20-7	< 0.00199	0.00199		mg/kg	04.09.2020 16:09	U	1
Total BTEX		< 0.00199	0.00199		mg/kg	04.09.2020 16:09	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	04.09.2020 16:09		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.09.2020 16:09		



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LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id: FS08 Lab Sample Id: 658406-008	Matrix: Soil Date Collected: 04.08.2020 13:56			Date Received:04.0 Sample Depth: 1 ft	Date Received:04.09.2020 08:55 Sample Depth: 1 ft		
Analytical Method: Chloride by Tech: MAB Analyst: MAB Seq Number: 3122580	EPA 300	Date Prep	o: 04.09.2020 11:00		Prep Method: E30 % Moisture: Basis: Wet	0P Weight	
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	56.8	10.0	mg/kg	04.09.2020 13:05		1
Analytical Method: TPH by SW	8015 Mod				Prep Method: SW	8015P	

					•		
					% Moisture:		
	Date P	rep: 04.0	9.2020 12:44	4	Basis: W	et Weight	
Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
PHC610	<50.0	50.0		mg/kg	04.09.2020 17:10) U	1
C10C28DRO	507	50.0		mg/kg	04.09.2020 17:10)	1
PHCG2835	<50.0	50.0		mg/kg	04.09.2020 17:10) U	1
PHC628	507	50.0		mg/kg	04.09.2020 17:10)	1
PHC635	507	50.0		mg/kg	04.09.2020 17:10)	1
	Cas Number	% Recovery	Units	Limits	Analysis Da	te Flag	
	111-85-3	115	%	70-135	04.09.2020 17:	10	
	84-15-1	126	%	70-135	04.09.2020 17:	10	
	PHC610 C10C28DRO PHCG2835 PHC628 PHC635	Cas Number Result PHC610 <50.0	Cas Number Result RL PHC610 <50.0	Cas Number Result RL PHC610 <50.0	Date Prep: 04.09.2020 12:44 Cas Number Result RL Units PHC610 <50.0	Cas Number Result RL Units Analysis Date PHC610 <50.0	Date Prep: 04.09.2020 12:44 Basis: Wet Weight Cas Number Result RL Units Analysis Date Flag PHC610 <50.0



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LT Environmental, Inc., Arvada, CO Red Hills

Sample Id:FS08Lab Sample Id:658406-008	Matrix: Date Collect	Soil ed: 04.08.2020 13:56	Date Received Sample Depth	d:04.09.2020 08:55 n: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB Analyst: MAB	Date Prep:	04.09.2020 11:00	Prep Method: % Moisture: Basis:	SW5030B Wet Weight
Seq Number: 3122568				

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.09.2020 16:30	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.09.2020 16:30	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.09.2020 16:30	U	1
m,p-Xylenes	179601-23-1	0.0241	0.00399		mg/kg	04.09.2020 16:30		1
o-Xylene	95-47-6	0.0112	0.00200		mg/kg	04.09.2020 16:30		1
Xylenes, Total	1330-20-7	0.0353	0.00200		mg/kg	04.09.2020 16:30		1
Total BTEX		0.0353	0.00200		mg/kg	04.09.2020 16:30		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	04.09.2020 16:30		
1,4-Difluorobenzene		540-36-3	103	%	70-130	04.09.2020 16:30		



Diesel Range Organics (DRO)

Total GRO-DRO

Surrogate

o-Terphenyl

1-Chlorooctane

Total TPH

Motor Oil Range Hydrocarbons (MRO)

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Red Hills

Sample Id: FS09 Lab Sample Id: 658406-009		Matrix: Date Collec	Soil cted: 04.08.2020 14:42		Date Received:04.09.2020 08: Sample Depth: 0.5 - 1 ft		
Analytical Method: Chloride by E	PA 300				Prep Method:	E300P	
Tech: MAB					% Moisture:		
Analyst: MAB		Date Prep:	04.09.2020 11:00		Basis:	Wet Weight	
Seq Number: 3122580							
Parameter	Cas Number	Result	RL	Units	Analysis Da	te Flag	Dil
Chloride	16887-00-6	99.8	9.96	mg/kg	04.09.2020 13	:12	1
Analytical Method: TPH by SW80	015 Mod				Prep Method:	SW8015P	
Tech: DTH					% Moisture:		
		Date Prep:	04.09.2020 12:44		Basis:	Wet Weight	
Analyst: DTH		Date Hept					
Analyst:DTHSeq Number:3122574		Date 110p.					
	Cas Number	Ĩ	RL	Units	Analysis Da	te Flag	Dil

50.1

50.1

50.1

50.1

% Recovery

117

129

669

69.1

669

738

Cas Number

111-85-3

84-15-1

C10C28DRO

PHCG2835

PHC628

PHC635

04.09.2020 17:31

04.09.2020 17:31

04.09.2020 17:31

04.09.2020 17:31

Analysis Date

04.09.2020 17:31

04.09.2020 17:31

mg/kg

mg/kg

mg/kg

mg/kg

Limits

70-135

70-135

Units

%

%



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO Red Hills

Sample Id: FS09	Matrix:	Soil	Date Recei	ved:04.09.2020 08:55	
Lab Sample Id: 658406-009	Date Collecte	d: 04.08.2020 14:42	Sample Depth: 0.5 - 1 ft		
Analytical Method: BTEX by EPA Tech: MAB Analyst: MAB Seq Number: 3122568	8021B Date Prep:	04.09.2020 11:00	Prep Metho % Moisture Basis:	od: SW5030B e: Wet Weight	

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.09.2020 16:50	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.09.2020 16:50	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.09.2020 16:50	U	1
m,p-Xylenes	179601-23-1	0.0102	0.00398		mg/kg	04.09.2020 16:50		1
o-Xylene	95-47-6	0.00516	0.00199		mg/kg	04.09.2020 16:50		1
Xylenes, Total	1330-20-7	0.0154	0.00199		mg/kg	04.09.2020 16:50		1
Total BTEX		0.0154	0.00199		mg/kg	04.09.2020 16:50		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	94	%	70-130	04.09.2020 16:50		
1,4-Difluorobenzene		540-36-3	102	%	70-130	04.09.2020 16:50		

Motor Oil Range Hydrocarbons (MRO)

Total GRO-DRO

Surrogate

o-Terphenyl

1-Chlorooctane

Total TPH

PHCG2835

PHC628

PHC635



Certificate of Analytical Results 658406

1

1

1

Flag

LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id: FS10 Lab Sample Id: 658406-010		Matrix: Date Collec	Soil cted: 04.08.2020 14:54		Date Received:04.0 Sample Depth: 1 ft		:55
Analytical Method: Chloride by EP Tech: MAB Analyst: MAB	A 300	Date Prep:	04.09.2020 11:00		Prep Method: E30 % Moisture: Basis: Wet	0P	
Seq Number: 3122580		1					
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	109	10.1	mg/kg	04.09.2020 13:18		1
Analytical Method: TPH by SW80 Tech: DTH Analyst: DTH	15 Mod	Date Prep:	04.09.2020 12:44		Prep Method: SW % Moisture: Basis: Wet	8015P t Weight	
Seq Number: 3122574 Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	04.09.2020 17:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	1220	50.2	mg/kg	04.09.2020 17:51		1

112

1220

1330

Cas Number

111-85-3

84-15-1

50.2

50.2

50.2

% Recovery

119

130

mg/kg

mg/kg

mg/kg

Limits

70-135

70-135

Units

%

%

04.09.2020 17:51

04.09.2020 17:51

04.09.2020 17:51

Analysis Date

04.09.2020 17:51

04.09.2020 17:51



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO Red Hills

I I I	FS10		Matrix:	Soil		Date Received		2020 08:	55
Lab Sample Id:	658406-010		Date Collecte	d: 04.08.2020 14:54		Sample Depth	: 1 ft		
Analytical Meth	nod: BTEX by EPA 802	1B				Prep Method:	SW50	30B	
Tech:	MAB					% Moisture:			
Analyst: 1	MAB		Date Prep:	04.09.2020 11:00		Basis:	Wet W	Veight	
Seq Number:	3122568								
Parameter		Cas Number	Result RI		Units	Analysis Da	ite	Flag	Dil

Parameter	Cas Numbe	er Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	04.09.2020 17:10	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	04.09.2020 17:10	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	04.09.2020 17:10	U	1
m,p-Xylenes	179601-23-1	0.0255	0.00396		mg/kg	04.09.2020 17:10		1
o-Xylene	95-47-6	0.0127	0.00198		mg/kg	04.09.2020 17:10		1
Xylenes, Total	1330-20-7	0.0382	0.00198		mg/kg	04.09.2020 17:10		1
Total BTEX		0.0382	0.00198		mg/kg	04.09.2020 17:10		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	103	%	70-130	04.09.2020 17:10		
4-Bromofluorobenzene		460-00-4	96	%	70-130	04.09.2020 17:10		



Seq Number: 3122574

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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id Lab Sample	ample Id: FS11 ab Sample Id: 658406-011		Matrix: Date Collec	Soil cted: 04.08.2020 14:58		Date Received:04.09.2020 08:55 Sample Depth: 1 ft			
Analytical I Tech: Analyst: Seq Numbe	Method: Chloride by EP. MAB MAB r: 3122580	A 300	Date Prep:	04.09.2020 11:00		Prep Method: E % Moisture: Basis: V	300P Vet Weight		
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Chloride		16887-00-6	113	9.96	mg/kg	04.09.2020 13:2	4	1	
-	Method: TPH by SW801	5 Mod				Prep Method: S	W8015P		
Tech: Analyst:	DTH DTH		Date Prep:	04.09.2020 12:44		% Moisture: Basis: V	Vet Weight		

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0		mg/kg	04.09.2020 18:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	340	50.0		mg/kg	04.09.2020 18:32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0		mg/kg	04.09.2020 18:32	U	1
Total GRO-DRO	PHC628	340	50.0		mg/kg	04.09.2020 18:32		1
Total TPH	PHC635	340	50.0		mg/kg	04.09.2020 18:32		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	112	%	70-135	04.09.2020 18:32		
o-Terphenyl		84-15-1	123	%	70-135	04.09.2020 18:32		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO Red Hills

Sample Id: FS11	Matrix:	Soil	Date Received	1:04.09.2020 08:55
Lab Sample Id: 658406-011	Date Collecte	d: 04.08.2020 14:58	Sample Depth	1: 1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3122568	Date Prep:	04.09.2020 11:00	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00199	0.00199		mg/kg	04.09.2020 18:32	U	1
Toluene	108-88-3	< 0.00199	0.00199		mg/kg	04.09.2020 18:32	U	1
Ethylbenzene	100-41-4	< 0.00199	0.00199		mg/kg	04.09.2020 18:32	U	1
m,p-Xylenes	179601-23-1	< 0.00398	0.00398		mg/kg	04.09.2020 18:32	U	1
o-Xylene	95-47-6	< 0.00199	0.00199		mg/kg	04.09.2020 18:32	U	1
Xylenes, Total	1330-20-7	< 0.00199	0.00199		mg/kg	04.09.2020 18:32	U	1
Total BTEX		<0.00199	0.00199		mg/kg	04.09.2020 18:32	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	92	%	70-130	04.09.2020 18:32		
1,4-Difluorobenzene		540-36-3	104	%	70-130	04.09.2020 18:32		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id:	FS12		Matrix:	Soil		Date Rece	eived:04.0	9.2020 08	:55
Lab Sample I	d: 658406-012		Date Co	llected: 04.08	.2020 15:02	Sample D	epth: 1 ft		
Analytical M	ethod: Chloride by EF	PA 300				Prep Meth	nod: E30	0P	
Tech:	MAB					% Moistu	re:		
Analyst:	MAB		Date Pre	p: 04.09	.2020 11:00	Basis:	Wet	Weight	
Seq Number:	3122580								
Parameter		Cas Number	Result	RL	Unit	s Analys	sis Date	Flag	Dil
Chloride		16887-00-6	33.8	10.0	mg/k	g 04.09.20	20 13:44		1

Analytical Method: TPH by SW801	5 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 04	.09.2020 12:44		Basis: V	Vet Weight	
Seq Number: 3122574								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.09.2020 18:5	2 U	1
Diesel Range Organics (DRO)	C10C28DRO	71.7	49.9		mg/kg	04.09.2020 18:5	2	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.09.2020 18:5	2 U	1
Total GRO-DRO	PHC628	71.7	49.9		mg/kg	04.09.2020 18:5	2	1
Total TPH	PHC635	71.7	49.9		mg/kg	04.09.2020 18:5	2	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Da	ite Flag	
1-Chlorooctane		111-85-3	116	%	70-135	04.09.2020 18	8:52	
o-Terphenyl		84-15-1	125	%	70-135	04.09.2020 18	3:52	



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO Red Hills

Sample Id:	FS12	Matrix:	Soil	Date Received	1:04.09.2020 08:55	
Lab Sample I	d: 658406-012	Date Collected	1:04.08.2020 15:02	Sample Depth: 1 ft		
Analytical M	ethod: BTEX by EPA 8021B			Prep Method:	SW5030B	
Tech:	MAB			% Moisture:		
Analyst:	MAB	Date Prep:	04.09.2020 11:00	Basis:	Wet Weight	
Seq Number:	3122568					

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00202	0.00202		mg/kg	04.09.2020 18:53	U	1
Toluene	108-88-3	< 0.00202	0.00202		mg/kg	04.09.2020 18:53	U	1
Ethylbenzene	100-41-4	< 0.00202	0.00202		mg/kg	04.09.2020 18:53	U	1
m,p-Xylenes	179601-23-1	0.00657	0.00404		mg/kg	04.09.2020 18:53		1
o-Xylene	95-47-6	< 0.00202	0.00202		mg/kg	04.09.2020 18:53	U	1
Xylenes, Total	1330-20-7	0.00657	0.00202		mg/kg	04.09.2020 18:53		1
Total BTEX		0.00657	0.00202		mg/kg	04.09.2020 18:53		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	04.09.2020 18:53		
1,4-Difluorobenzene		540-36-3	103	%	70-130	04.09.2020 18:53		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id: FS13 Lab Sample Id: 658406-013		Matrix: Date Collect	Soil ted: 04.08.2020 15:08		Date Received:04.09.2 Sample Depth: 1 ft	2020 08:55
Analytical Method:ChlorideTech:MABAnalyst:MABSeq Number:3122580	by EPA 300	Date Prep:	04.09.2020 11:00		Prep Method: E300P % Moisture: Basis: Wet W	
Parameter	Cas Number	Result F	8L	Units	Analysis Date	Flag Dil
Chloride	16887-00-6	40.2	9.98	mg/kg	04.09.2020 13:50	1
Analytical Method: TPH by S	SW8015 Mod				Prep Method: SW801	15P
Tech:DTHAnalyst:DTHSeq Number:3122574		Date Prep:	04.09.2020 12:44		% Moisture: Basis: Wet W	leight
Parameter	Cas Number	Result 4	81.	Units	Analysis Date	Flag Dil

Parameter	Cas Numbe	r Kesult	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3		mg/kg	04.09.2020 19:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	183	50.3		mg/kg	04.09.2020 19:13		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3		mg/kg	04.09.2020 19:13	U	1
Total GRO-DRO	PHC628	183	50.3		mg/kg	04.09.2020 19:13		1
Total TPH	PHC635	183	50.3		mg/kg	04.09.2020 19:13		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	116	%	70-135	04.09.2020 19:13		
o-Terphenyl		84-15-1	126	%	70-135	04.09.2020 19:13		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Sample Id: FS13	Matrix: Soi	Date Received:	04.09.2020 08:55
Lab Sample Id: 658406-013	Date Collected: 04.	Sample Depth:	1 ft
Analytical Method:BTEX by EPA 8021BTech:MABAnalyst:MABSeq Number:3122568	Date Prep: 04.	Prep Method: % Moisture: Basis:	SW5030B Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.09.2020 19:13	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.09.2020 19:13	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.09.2020 19:13	U	1
m,p-Xylenes	179601-23-1	< 0.00401	0.00401		mg/kg	04.09.2020 19:13	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.09.2020 19:13	U	1
Xylenes, Total	1330-20-7	< 0.00200	0.00200		mg/kg	04.09.2020 19:13	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.09.2020 19:13	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	101	%	70-130	04.09.2020 19:13		
4-Bromofluorobenzene		460-00-4	89	%	70-130	04.09.2020 19:13		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Chloride		16887-00-6	13.3	10.1	mg/kg	04.09.2020 14:0	09	1
Parameter		Cas Number	Result	RL	Units	Analysis Date	e Flag	Di
Seq Number:	3122580							
Analyst:	MAB		Date Pre	p: 04.09.2020 1	1:00	Basis:	Wet Weight	
Tech:	MAB					% Moisture:		
Analytical Me	ethod: Chloride by E	PA 300				Prep Method: I	E300P	
Lab Sample I	d: 658406-014		Date Col	llected: 04.08.2020 1	7:42	Sample Depth: 1	l ft	
Sample Id:	FS14		Matrix:	Soil		Date Received:	04.09.2020 08	:55

Analytical Method: TPH by SW801	5 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 04.	09.2020 12:44		Basis: W	Vet Weight	
Seq Number: 3122574								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9		mg/kg	04.09.2020 19:3	3 U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9		mg/kg	04.09.2020 19:33	3 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9		mg/kg	04.09.2020 19:33	3 U	1
Total GRO-DRO	PHC628	<49.9	49.9		mg/kg	04.09.2020 19:33	3 U	1
Total TPH	PHC635	<49.9	49.9		mg/kg	04.09.2020 19:33	3 U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	114	%	70-135	04.09.2020 19	:33	
o-Terphenyl		84-15-1	126	%	70-135	04.09.2020 19	:33	



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO Red Hills

Sample Id: Lab Sample Id	FS14 d: 658406-014	Matrix: Date Collected	Soil d: 04.08.2020 17:42	Date Received Sample Depth	1:04.09.2020 08:55 : 1 ft
Analytical Me Tech:	ethod: BTEX by EPA 8021B MAB			Prep Method: % Moisture:	SW5030B
Analyst: Seq Number:	MAB 3122568	Date Prep:	04.09.2020 11:00	Basis:	Wet Weight

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00201	0.00201		mg/kg	04.09.2020 19:34	U	1
Toluene	108-88-3	< 0.00201	0.00201		mg/kg	04.09.2020 19:34	U	1
Ethylbenzene	100-41-4	< 0.00201	0.00201		mg/kg	04.09.2020 19:34	U	1
m,p-Xylenes	179601-23-1	< 0.00402	0.00402		mg/kg	04.09.2020 19:34	U	1
o-Xylene	95-47-6	< 0.00201	0.00201		mg/kg	04.09.2020 19:34	U	1
Xylenes, Total	1330-20-7	< 0.00201	0.00201		mg/kg	04.09.2020 19:34	U	1
Total BTEX		< 0.00201	0.00201		mg/kg	04.09.2020 19:34	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	100	%	70-130	04.09.2020 19:34		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.09.2020 19:34		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id: Lab Sample	FS15 Id: 658406-015		Matrix: Date Collec	Soil cted: 04.08.2020 18:14		Date Received: Sample Depth:		3:55
Analytical M Tech: Analyst: Seq Number	Iethod: Chloride by EPA MAB MAB : 3122580	300	Date Prep:	04.09.2020 11:00		Prep Method: 1 % Moisture: Basis:	E300P Wet Weight	
Parameter		Cas Number	Result	RL	Units	Analysis Dat	e Flag	Dil
Chloride		16887-00-6	45.8	10.1	mg/kg	04.09.2020 14:	16	1
Analytical M Tech:	fethod: TPH by SW8015 DTH	5 Mod				Prep Method: 5 % Moisture:	SW8015P	
Analyst:	DTH		Date Prep:	04.09.2020 12:44		Basis:	Wet Weight	

Seq Number: 3122574								
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.09.2020 19:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	66.7	50.2		mg/kg	04.09.2020 19:54		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	04.09.2020 19:54	U	1
Total GRO-DRO	PHC628	66.7	50.2		mg/kg	04.09.2020 19:54		1
Total TPH	PHC635	66.7	50.2		mg/kg	04.09.2020 19:54		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	117	%	70-135	04.09.2020 19:54		
o-Terphenyl		84-15-1	127	%	70-135	04.09.2020 19:54		

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LT Environmental, Inc., Arvada, CO Red Hills

Sample Id: Lab Sample I	FS15 ld: 658406-015	Matrix: Date Collecte	Soil d: 04.08.2020 18:14	Date Received:04.09.2020 08:55 Sample Depth: 1 ft		
Analytical M Tech:	ethod: BTEX by EPA 8021B MAB			Prep Method: % Moisture:	SW5030B	
Analyst: Seq Number:	MAB 3122568	Date Prep:	04.09.2020 11:00	Basis:	Wet Weight	

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.09.2020 19:54	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.09.2020 19:54	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.09.2020 19:54	U	1
m,p-Xylenes	179601-23-1	< 0.00400	0.00400		mg/kg	04.09.2020 19:54	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.09.2020 19:54	U	1
Xylenes, Total	1330-20-7	< 0.00200	0.00200		mg/kg	04.09.2020 19:54	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.09.2020 19:54	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene		540-36-3	105	%	70-130	04.09.2020 19:54		
4-Bromofluorobenzene		460-00-4	95	%	70-130	04.09.2020 19:54		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Sample Id:	FS16		Matrix:	Soil		Date Received:04.	09.2020 08	:55
Lab Sample I	ld: 658406-016		Date Collected: 04.08.2020 19:32			Sample Depth: 1 ft		
Analytical M	ethod: Chloride by EP.	A 300				Prep Method: E30	00P	
Tech:	MAB					% Moisture:		
Analyst:	MAB		Date Prep	p: 04.09.2020 11:00		Basis: We	et Weight	
Seq Number:	3122580							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride		16887-00-6	61.2	10.1	mg/kg	04.09.2020 14:22		1

Analytical Method: TPH by SW801	5 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 04.0	09.2020 12:44		Basis: V	Vet Weight	
Seq Number: 3122574								
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1		mg/kg	04.09.2020 20:1	4 U	1
Diesel Range Organics (DRO)	C10C28DRO	96.8	50.1		mg/kg	04.09.2020 20:1	4	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1		mg/kg	04.09.2020 20:1	4 U	1
Total GRO-DRO	PHC628	96.8	50.1		mg/kg	04.09.2020 20:1	4	1
Total TPH	PHC635	96.8	50.1		mg/kg	04.09.2020 20:1	4	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	115	%	70-135	04.09.2020 20	:14	
o-Terphenyl	1	84-15-1	124	%	70-135	04.09.2020 20	:14	



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO Red Hills

Sample Id: FS16	Matrix:	Soil	Date Receiv	ed:04.09.2020 08:55
Lab Sample Id: 658406-016	Date Collect	ed: 04.08.2020 19:32	Sample Dep	th: 1 ft
Analytical Method: BTEX by EPA 8021B			Prep Method	l: SW5030B
Tech: MAB			% Moisture:	
Analyst: MAB	Date Prep:	04.09.2020 11:00	Basis:	Wet Weight
Seq Number: 3122568				

Parameter	Cas Numbe	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.0189	0.0189		mg/kg	04.09.2020 20:14	U	1
Toluene	108-88-3	< 0.0189	0.0189		mg/kg	04.09.2020 20:14	U	1
Ethylbenzene	100-41-4	< 0.0189	0.0189		mg/kg	04.09.2020 20:14	U	1
m,p-Xylenes	179601-23-1	< 0.0377	0.0377		mg/kg	04.09.2020 20:14	U	1
o-Xylene	95-47-6	< 0.0189	0.0189		mg/kg	04.09.2020 20:14	U	1
Xylenes, Total	1330-20-7	< 0.0189	0.0189		mg/kg	04.09.2020 20:14	U	1
Total BTEX		< 0.0189	0.0189		mg/kg	04.09.2020 20:14	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	97	%	70-130	04.09.2020 20:14		
1,4-Difluorobenzene		540-36-3	104	%	70-130	04.09.2020 20:14		



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO

Red Hills

Chloride		16887-00-6	18.1	10.1	mg/kg	04.09.2020 14:28		1	
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil	
Seq Number:	3122580								
Analyst:	MAB		Date Pre	p: 04.09.2020 11:00		Basis: W	et Weight		
Tech:	MAB					% Moisture:			
Analytical Me	ethod: Chloride by	EPA 300				Prep Method: E3	800P		
Lab Sample I	d: 658406-017		Date Col	llected: 04.08.2020 17:54		Sample Depth: 1 f	ft		
Sample Id:	SW01		Matrix: Soil			Date Received:04.09.2020 08:55			

Analytical Method: TPH by SW801	5 Mod					Prep Method: S	W8015P	
Tech: DTH						% Moisture:		
Analyst: DTH		Date P	rep: 04	.09.2020 12:44		Basis: W	Vet Weight	
Seq Number: 3122574								
Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.09.2020 20:34	4 U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	04.09.2020 20:34	4 U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	04.09.2020 20:34	4 U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	04.09.2020 20:34	4 U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	04.09.2020 20:34	4 U	1
Surrogate		Cas Number	% Recover	y Units	Limits	Analysis Da	te Flag	
1-Chlorooctane		111-85-3	116	%	70-135	04.09.2020 20	:34	
o-Terphenyl		84-15-1	123	%	70-135	04.09.2020 20	:34	



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Certificate of Analytical Results 658406

LT Environmental, Inc., Arvada, CO Red Hills

Sample Id: SW01 Lab Sample Id: 658406-017	Matrix: Soil Date Collected: 04.08.2020 17:54	Date Received:04.09.2020 08:55 Sample Depth: 1 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB		Prep Method: SW5030B % Moisture:
Analyst:MABSeq Number:3122568	Date Prep: 04.09.2020 11:00	Basis: Wet Weight

Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00200	0.00200		mg/kg	04.09.2020 20:35	U	1
Toluene	108-88-3	< 0.00200	0.00200		mg/kg	04.09.2020 20:35	U	1
Ethylbenzene	100-41-4	< 0.00200	0.00200		mg/kg	04.09.2020 20:35	U	1
m,p-Xylenes	179601-23-1	< 0.00399	0.00399		mg/kg	04.09.2020 20:35	U	1
o-Xylene	95-47-6	< 0.00200	0.00200		mg/kg	04.09.2020 20:35	U	1
Xylenes, Total	1330-20-7	< 0.00200	0.00200		mg/kg	04.09.2020 20:35	U	1
Total BTEX		< 0.00200	0.00200		mg/kg	04.09.2020 20:35	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	96	%	70-130	04.09.2020 20:35		
1,4-Difluorobenzene		540-36-3	107	%	70-130	04.09.2020 20:35		



Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
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/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

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



QC Summary 658406

LT Environmental, Inc.

Red Hills

						Keu II	115						
Analytical Method: Seq Number:	Chloride b 3122580	y EPA 3(DO		Matrix:	Solid			P	rep Metho Date Pro		0P 09.2020	
MB Sample Id:	7700931-1-	BLK		LCS Sat	nple Id:	7700931-	1-BKS		LCS		-	0931-1-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	257	103	258	103	90-110	0	20	mg/kg	04.09.2020 11:41	
Analytical Method: Seq Number:	Chloride b 3122580	y EPA 30	00		Matrix:	Soil			P	rep Metho Date Pro		0P)9.2020	
Parent Sample Id:	658406-001					658406-0	01 S		MS		1	406-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		71.2	200	284	106	282	105	90-110	1	20	mg/kg	04.09.2020 12:00	
Analytical Method: Seq Number:	Chloride by 3122580	y EPA 30	00		Matrix:	Soil			P	rep Metho Date Pre		0P 09.2020	
Parent Sample Id:	658406-011			MS Sa	nple Id:	658406-0	11 S		MS	D Sample	d: 658	406-011 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		113	199	322	105	324	106	90-110	1	20	mg/kg	04.09.2020 13:31	
A	TDU L- CN	V0015 34							D	Ma	1 CW	901 5D	
Analytical Method: Seq Number:	3122574	V 8015 IVI	.00		Matrix:	Solid			P	rep Metho Date Pro		8015P)9.2020	
MB Sample Id:	7700947-1-	BLK				7700947-	1-BKS		LCS		•	0947-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb		< 50.0	1000	1010	101	945	95	70-135	7	35	mg/kg	04.09.2020 13:25	
Diesel Range Organics	(DRO)	<50.0	1000	1120	112	1080	108	70-135	4	35	mg/kg	04.09.2020 13:25	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1-Chlorooctane		113			28		124			-135	%	04.09.2020 13:25	
o-Terphenyl		119		1	26		124	Ļ	70	-135	%	04.09.2020 13:25	
Analytical Method:	TDH by SV	VQ015 M	od						D	rep Metho	d SW	8015P	
Seq Number:	3122574	, 0013 IVI	Ju		Matrix:	Solid			r.	Date Pre		9.2020	
						7700947-	1-BLK						
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocar	bons (MRO)			<50.0							mg/kg	04.09.2020 13:04	

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

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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

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QC Summary 658406

LT Environmental, Inc.

Red Hills

Analytical Method: Seq Number:	3122574		od		Matrix:		1.0			rep Metho Date Pro	ep: 04.0	8015P)9.2020	
Parent Sample Id:	658406-00	1		MS San	nple Id:	658406-00	01 S		MS.	D Sample	e Id: 658	406-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarb	ons (GRO)	<50.0	999	1020	102	987	98	70-135	3	35	mg/kg	04.09.2020 14:26	
Diesel Range Organics	(DRO)	81.4	999	1130	105	1190	110	70-135	5	35	mg/kg	04.09.2020 14:26	
Surrogate					IS Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1-Chlorooctane				1	30		126		70	-135	%	04.09.2020 14:26	
o-Terphenyl				1	34		128		70	-135	%	04.09.2020 14:26	

Analytical Method:	BTEX by EPA 8021	B						Pi	rep Metho	od: SW	5030B	
Seq Number:	3122568]	Matrix:	Solid				Date Pr	ep: 04.0	09.2020	
MB Sample Id:	7700933-1-BLK		LCS San	nple Id:	7700933-	1-BKS		LCS	D Sample	e Id: 770	0933-1-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	0.110	110	0.116	116	70-130	5	35	mg/kg	04.09.2020 12:24	
Toluene	< 0.00200	0.100	0.105	105	0.112	112	70-130	6	35	mg/kg	04.09.2020 12:24	
Ethylbenzene	< 0.00200	0.100	0.0988	99	0.106	106	71-129	7	35	mg/kg	04.09.2020 12:24	
m,p-Xylenes	< 0.00400	0.200	0.205	103	0.220	110	70-135	7	35	mg/kg	04.09.2020 12:24	
o-Xylene	< 0.00200	0.100	0.102	102	0.110	110	71-133	8	35	mg/kg	04.09.2020 12:24	
Surrogate	MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	106		1	05		104		70	-130	%	04.09.2020 12:24	
4-Bromofluorobenzene	95		9	03		91		70	-130	%	04.09.2020 12:24	

Analytical Method: Seq Number: Parent Sample Id:	BTEX by EPA 8021 3122568 658406-001	B		Matrix: nple Id:	Soil 658406-00)1 S			rep Methe Date Pr D Sample	ep: 04.0	5030B)9.2020 406-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.104	104	0.106	106	70-130	2	35	mg/kg	04.09.2020 13:05	
Toluene	< 0.00200	0.100	0.0981	98	0.102	102	70-130	4	35	mg/kg	04.09.2020 13:05	
Ethylbenzene	< 0.00200	0.100	0.0918	92	0.0960	96	71-129	4	35	mg/kg	04.09.2020 13:05	
m,p-Xylenes	< 0.00401	0.200	0.189	95	0.198	99	70-135	5	35	mg/kg	04.09.2020 13:05	
o-Xylene	< 0.00200	0.100	0.0947	95	0.0983	98	71-133	4	35	mg/kg	04.09.2020 13:05	
Surrogate				IS Rec	MS Flag	MSD %Ree			imits	Units	Analysis Date	
1,4-Difluorobenzene			1	05		104		70)-130	%	04.09.2020 13:05	
4-Bromofluorobenzene			9	4		91		70)-130	%	04.09.2020 13:05	

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

.

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

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	LT Environmental, Inc.,	., Permian office		Company Name:	LTE	LT Environmental	ental				7	Program: UST/PST	UST/P		RP	rownfields		RC	Derfund	fund
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e ZIP:	Midland, Tx 79705		City	City, State ZIP:							77	Reporting:Level II	:Level I		evel III			RP		
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Project Number:	103020001	001	Routine					-			_	_								
P.O. Number:	Lea		Rush: 24	the			_	-				-	-	1						
Sampler's Name:	William Mather	lather	Due Date:				1	+				-	-							
SAMPLE RECEIPT	PT Temp Blank:	Yes No	Wet Ice: Y	Yes No								+	-							
Temperature (°C):	-	1 Ihe	Laermometer ID	liner)	0)					_								
Received Intact: Cooler Custody Seals:	Ves No NA	Correctio	Correction Factor:	Cont)=8021	A 300	-									TAT sta	rts the c	day rece	TAT starts the day recevied by the
Sample Custody Seals	Yes No	Total Co	Total Containers:	er of		EPA	le (EF					-	-				lab,	lab, if received by 4:30pm	ved by	4:30pm
Sample Identification	ification Matrix	Date Sampled	Time Sampled	Depth	TPH (E	BTEX (Chloric										Sa	Sample Comments	Comr	nents
FS11	S		14:58 .5'	1		×	×											Con	Composite	Ø
FS12				1	×	×	×											Con	Composite	Ø
FS13			15:08 1'	-	×	×	×											Con	Composite	C
FS14	s		17:42 2'	1	×	×	×											Con	Composite	Ø
FS15	S	4/8/2020	18:14 .5'	-	×	×	×				-							Con	Composite	0
FS16			19:32 .5'	-	×	×	×											Con	Composite	0
SW01			17:54 0'-2'	1	×	×	×	-										Con	Composite	œ
<u>07 P</u> .		ho h								1		-								
	10 200.8 / 6020:								43	43928				ľ		/				
Circle Method(s	Circle Method(s) and Metal(s) to be analyzed	nalyzed TC	LP / SPLP 6	TCLP / SPLP 6010: 8RCRA	A Sb	Sb As Ba	Be Cd	Cr Co	Cu Pb	Mn M	Pb Mn Mo Ni Se Ag	e Ag	UIT			1631	/ 245.	1 / 74	70 17	1631 / 245.1 / 7470 / 7471 : Hg
Votice: Signature of this do of service. Xenco will be li	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.	of samples constitut ples and shall not as to each project and a	es a valid purcha sume any respor charge of \$5 for	ise order from cli nsibility for any lo each sample sub	ent compa osses or e mitted to	any to Xe xpenses i Xenco, bu	nco, its affil ncurred by ıt not analy	iates and a the client zed. These	subcontra if such lo terms wi	ctors. It a sses are o Il be enfo	assigns st fue to circ rced unle	andard to umstance ss previou	rms and s beyond isly negot	condition the cont iated.	<u>0</u> %					
Reli	(Signature)	Received by:	(Signature)		Date	Date/Time		Relinquish	uished	by: (Sig	ed by: (Signature)		Rec	eived	by: (Sig	Received by: (Signature)			Date/	Date/Time
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Final 1.000

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 04.09.2020 08.55.00 AM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 658406	Temperature Measuring device used : T-NM-007
Sample Recei	pt Checklist Comments
#1 *Temperature of cooler(s)?	3.8
#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?	Νο
#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)?	Νο
#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:

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PH Device/Lot#:

Checklist completed by: Elizabeth McClellan
Checklist reviewed by: Jessica Weamer

Date: 04.09.2020

Jessica Kramer

Date: 04.09.2020



Analytical Report 658603

for

LT Environmental, Inc.

Project Manager: Dan Moir

RED HILLS

103020001

04.17.2020

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



04.17.2020

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

Reference: XENCO Report No(s): 658603 RED HILLS Project Address: Lea

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) 658603. 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. 658603 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,

Jession Vermer

Jessica Kramer Project Manager

A Small Business and Minority Company

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



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Sample Cross Reference 658603

RED HILLS

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS17	S	04.10.2020 12:28	1 ft	658603-001
FS18	S	04.10.2020 12:30	1 ft	658603-002



Client Name: LT Environmental, Inc. Project Name: RED HILLS

 Project ID:
 103020001

 Work Order Number(s):
 658603

 Report Date:
 04.17.2020

 Date Received:
 04.10.2020

Sample receipt non conformances and comments:

V1.001 Revision (client email) Changed samples 001 & 002 names JK 04/17/20 FS03 --> FS17 FS10 --> FS18

Sample receipt non conformances and comments per sample:

None

103020001

Dan Moir

Lea



Project Id:

Project Location:

Contact:

Certificate of Analysis Summary 658603

LT Environmental, Inc., Arvada, CO

Project Name: RED HILLS

Date Received in Lab: Fri 04.10.2020 14:05 Report Date: 04.17.2020 13:19 Project Manager: Jessica Kramer

Lab Id: 658603-001 658603-002 Field Id: FS17 FS18 Analysis Requested Depth: 1- ft 1- ft Matrix: SOIL SOIL Sampled: 04.10.2020 12:28 04.10.2020 12:30 TPH by SW8015 Mod 04.10.2020 15:30 04.10.2020 15:30 Extracted: Analyzed: 04.10.2020 17:02 04.10.2020 17:23 mg/kg RL mg/kg RL Units/RL: Gasoline Range Hydrocarbons (GRO) < 50.2 50.2 < 50.2 50.2 Diesel Range Organics (DRO) 415 50.2 < 50.2 50.2 Motor Oil Range Hydrocarbons (MRO) 50.2 < 50.2 50.2 < 50.2 Total GRO-DRO 415 50.2 < 50.2 50.2 Total TPH 415 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 VRAMER

Jessica Kramer Project Manager

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Page 5 of 11



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Certificate of Analytical Results 658603

LT Environmental, Inc., Arvada, CO RED HILLS

Sample Id: FS17 Lab Sample Id: 658603-001		Matrix Date C		bil 4.10.2020 12:28		Date Received:04.10 Sample Depth: 1 ft	0.2020 14:	05
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3122701	5 Mod	Date P	rep: 04	4.10.2020 15:30		Prep Method: SW8 % Moisture: Basis: Wet	8015P Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.10.2020 17:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	415	50.2		mg/kg	04.10.2020 17:02		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	04.10.2020 17:02	U	1
Total GRO-DRO	PHC628	415	50.2		mg/kg	04.10.2020 17:02		1
Total TPH	PHC635	415	50.2		mg/kg	04.10.2020 17:02		1
Surrogate 1-Chlorooctane		C as Number 11-85-3	% Recover 131	y Units %	Limits 70-135	Analysis Date 04.10.2020 17:02	Flag	
o-Terphenyl		4-15-1	133	%	70-135	04.10.2020 17:02		



o-Terphenyl

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Certificate of Analytical Results 658603

LT Environmental, Inc., Arvada, CO RED HILLS

Sample Id: FS18 Lab Sample Id: 658603-002		Matrix: Date Col	Soil).2020 12:30		Date Received:04 Sample Depth: 1 f		05
Analytical Method: TPH by SW801 Tech: DTH Analyst: DTH Seq Number: 3122701	5 Mod	Date Pre).2020 12:30		Prep Method: SW % Moisture:		
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2		mg/kg	04.10.2020 17:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2		mg/kg	04.10.2020 17:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2		mg/kg	04.10.2020 17:23	U	1
Total GRO-DRO	PHC628	<50.2	50.2		mg/kg	04.10.2020 17:23	U	1
Total TPH	PHC635	<50.2	50.2		mg/kg	04.10.2020 17:23	U	1
Surrogate		Cas Number %	% Recovery	Units	Limits	Analysis Dat	e Flag	
1-Chlorooctane		111-85-3	120	%	70-135	04.10.2020 17:2	23	

127

%

70-135

04.10.2020 17:23

84-15-1



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 De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
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/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Samp	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

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



QC Summary 658603

LT Environmental, Inc. RED HILLS

Analytical Method: Seq Number: MB Sample Id:	TPH by S 3122701 7701064-1		od] LCS San	Matrix: 1ple Id:		I-BKS			ep Meth Date Pr D Sample	ep: 04.1	8015P 10.2020 1064-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocart	oons (GRO)	< 50.0	1000	950	95	1010	101	70-135	6	35	mg/kg	04.10.2020 15:21	
Diesel Range Organics	(DRO)	<50.0	1000	1030	103	1110	111	70-135	7	35	mg/kg	04.10.2020 15:21	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		95		12	24		130)	70	-135	%	04.10.2020 15:21	
o-Terphenyl		98		11	20		127		70	-135	%	04.10.2020 15:21	

Analytical Method: Seq Number:	TPH by SW8015 Mod 3122701	Matrix: MB Sample Id:	Solid 7701064-1-BLK	Prep Method: Date Prep:			
Parameter Motor Oil Range Hydrocart	oons (MRO)	MB Result <50.0			J nits ng/kg	Analysis Date 04.10.2020 15:00	Flag

Analytical Method:TPH by SW8015 ModSeq Number:3122701Parent Sample Id:658521-003					Matrix:	Soil 658521-00	13 5			rep Methe Date Pr D Sample	ep: 04.1	SW8015P 04.10.2020 658521-003 SD		
Parameter	Pai Re		Spike Amount	MS MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag	
Gasoline Range Hydrocarbons (GRO)		<50.0	999	1040			70-135	0			04.10.2020 16:22			
Diesel Range Organics	(DRO)	60.2	999	1160	110	1140	108	70-135	2	35	mg/kg	04.10.2020 16:22		
Surrogate			MS %Rec		MS MSI Flag %Re					Units	Analysis Date			
1-Chlorooctane			131		130			70	-135	%	04.10.2020 16:22			
o-Terphenyl			1	32	129			70	-135	%	04.10.2020 16:22			

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

.

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

Relinquished by: (Signature) Received by: (Signature) Date/Time WILL 10 2 INTER 10 2 INTER 4 4 INTER 4 6	Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn No Ni Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Bc Ca Cr Co Cu Fe Pb Mg Mn Mo Ni 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 exponses 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 \$55.00 will be applied to each project and a charge of \$55.00 will be applied to each project and a charge of \$55.00 will be applied to each project and a charge of \$55.00 will be applied to each project and a charge of \$55.00 will be applied to each project and a charge of \$55.00 will be applied to each project and a charge of \$55.00 will be applied to each project and a charge of \$55.00 will be applied to each project and a charge of \$55.00 will be applied to each project and a charge of \$55.00 will be applied to each project and a charge of \$55.00 will be applied to each project and a charge of \$55.00 will be applied to each project and a charge of \$55.00 will be ap			d Sampled Depth Num	Yes (No) N/A Total Containers: 2 of for the second	Yes Nd	Yes No	Quote #:	Mation Rush: 24hr	103020001 Rou	Project Name: ACd /H///S Turn Around	Phone: 432-230-3849 Email: WHAThere Iten WOM, MMG/ PEITON	City,	arth A Street Address:	LT GNG	Project Manager: DAM Mm/r Rill to transmistration of the second s
Relinquished by: (Signature)	Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Co Cu Pb Mn Mo Ni Se Ag TI U subcontractors. It assigns standard terms and conditions if such losses are due to circumstances beyond the control									ANALYSIS REQUEST		WICOM				3) 620-2000 West Palm Beach, FL (561) 68
Received by: (Signature)	Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn TI U 1631/245.1/7470 /7471 : Hg and conditions				TAT starts the day received by the lab, received by 4:00pm	NaOH: Na Zn Acetate+ NaOH: Zn	H2SO4: H2	HNO3: HN	MeOH: Me	IST			Reporting level II Di avel III Di pos	Program: UST/PST PRP Brownfields RRC Superfund	Work Order Comments	99-6701 <u>www.xenco.com</u>

Final 1.001

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC									
Date/ Time Received: 04.10.2020 02.05.00 PM	Air and Metal samples Acceptable Range: Ambient									
Work Order #: 658603	Temperature Measuring device used: T NM 007									
Sample Recei	ot Checklist Comments									
#1 *Temperature of cooler(s)?	2									
#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?	No									
#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: Martha Castro

Date: 04.10.2020

Checklist reviewed by: Jession Vramer

Jessica Kramer

Date: 04.10.2020