District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NVV2002451789
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.148944 Longitude -103.921771
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Muy Wayno Recycling Facility Pond	Site Type Recycling Facility
Date Release Discovered 12/28/2019	API# *(if applicable)* 30-015-37700 (Muy Wayno State #001H))

Unit Letter	Section	Township	Range	County
C	7	25S	30E	EDDY

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls) 0.0	Volume Recovered (bbls) 0.0
☒ Produced Water	Volume Released (bbls) 553.95	Volume Recovered (bbls) 544.0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A connection on the produced water lay flat hose failed and the line ruptured. This resulted in a release into impermeable containment consisting of 540 bbls and 13.95 bbls onto caliche pad. A total of 553.95 bbls of produced water were released with 544 bbls recovered. Additional third party resources have been retained to assist in the remediation.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NVV2002451789
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? YES – An unauthorized release of fluid over 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? YES, by Kyle Littrell : 'Mike Bratcher'; 'Rob Hamlet'; 'Victoria Venegas'; 'Griswold, Jim, EMNRD'; Mann, Ryan : by email December 28, 2019 at 11:39 AM.	

Initial Response

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

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

If all the actions described above have not been undertaken, explain why:

N/A

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

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

Printed Name: Kyle Littrell Title: SH&E Supervisor

Signature: Date: 1/10/2019

email: Kyle_Littrell@xtoenergy.com Telephone:

OCD Only

Received by: Victoria Venegas Date: 01/24/2020

Incident ID	NVV2002451789
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	NVV2002451789
District RP	
Facility ID	
Application ID	

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

Printed Name: _____Kyle Littrell_____ Title: _____SH&E Coordinator_____

Signature:_____ _____ Date: ___03/26/2020 _

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

OCD Only

Received by: _____ Date: _____

Incident ID	NVV2002451789
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ Extents of contamination must be fully delineated.

☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: _____Kyle Littrell_____ Title: _____SH&E Coordinator_____

Signature:_____ Date: __03/26/2020__

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

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

A proud member of WSP

LT Environmental, Inc.
3300 North "A" Street
Building 1, Unit 222
Midland, Texas 79705
432.704.5178

March 26, 2020

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

RE: Deferral Request
Muy Wayno Recycling Facility Pond
Incident Number NVV2002451789
Eddy County, New Mexico

Dear Mr. Bratcher:

LT Environmental, Inc. (LTE), on behalf of XTO Energy, Inc. (XTO), presents the following Deferral Request detailing site assessment, soil sampling, and remediation activities at the Muy Wayno Recycling Facility Pond (Site) in Unit C, Section 7, Township 25 South, Range 30 East, in Eddy County, New Mexico (Figure 1). 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 produced water at the Site. Based on field observations, field screening, and laboratory analytical results from soil sampling following excavation activities, XTO is submitting this Deferral Request and requesting no further action (NFA) for Incident Number NVV2002451789 until the Site is reconstructed and/or the recycling pad is abandoned.

RELEASE BACKGROUND

On December 28, 2019, a connection to a produced water lay flat hose failed resulting in the line rupturing. The line rupture resulted in the release of 553.95 barrels (bbls) of produced water. Approximately 540 bbls remained in the impermeable-lined containment, while 13.95 bbls released onto the adjoining pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluid, of which approximately 544 bbls were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on January 10, 2020 and was assigned Incident Number NVV2002451789.

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 greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well

320857103553301, located approximately 1,225 feet west of the Site. The groundwater well has a reported depth to groundwater of 264 feet bgs and a total depth of 385 feet bgs. The closest continuously flowing water or significant watercourse to the Site is an intermittent streambed, located approximately 241 feet south 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, or church. 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 within an area underlain by unstable geology based on a low potential karst designation area by the Bureau of Land Management (BLM). The Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

SITE ASSESSMENT AND SOIL SAMPLING ACTIVITIES

On January 20, 2020, LTE conducted reconnaissance of the Site to evaluate the release extent. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positing System (GPS). The release initially occurred within the lined containment, then overflowed on all sides of the containment. The overflow was immediately surrounding the lined containment on the north, south, and west side. The majority of the fluid pooled to the east side of containment. LTE personnel collected and field screened preliminary soil assessment samples at three locations (SS01 through SS03) within the most affected areas, predominantly observed within the eastern release extent. LTE personnel returned to the Site on February 28, 2020 and collected samples within 2 feet of the lined containment to further assess the release extent immediately surrounding the containment. The locations of the preliminary soil samples are presented on Figure 2. Photographic documentation was conducted during the Site remedial activities and is included in Attachment 1.

The four preliminary soil samples were collected at an approximate depth of 0.5 feet bgs. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. All soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody

(COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

The laboratory analytical results indicated chloride concentrations were above the Closure Criteria in preliminary assessment soil samples SS01 through SS04. Based on visible salt crusting within the release extent, field screening results, and laboratory analytical results, soil delineation and excavation appeared to be warranted for the Site. Soil analytical results are depicted on Figure 2 and summarized in Table 1. The laboratory analytical reports are provided in Attachment 2.

EXCAVATION AND DELINEATION SOIL SAMPLING ACTIVITIES

The following is a summary of the excavation and delineation activities conducted at the site.

Excavation Activities

On February 26, 2020, LTE oversaw excavation of impacted soil as indicated by visual observations, field screening results, and preliminary soil sample results. Excavation activities were performed using a track-mounted backhoe and transport vehicle within the release extent and in the vicinity of preliminary soil samples SS01 and SS03, located to the east of the lined containment. Soil in the area of preliminary sample SS04 could not be remediated, due to the presence of active production equipment and XTO safety protocol restricting work being performed within 2 feet of active production equipment. Excavation was not possible on the north, south, and west sides of the containment to ensure the structural integrity of the production equipment.

Following removal of impacted soil from the east excavation, LTE collected 5-point composite soil samples on a 200 square foot frequency from sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. A total of 26 composite floor soil samples (FS01 throughFS26) and four composite sidewall samples (SW01 through SW04) were collected within the excavation extent. Composite floor soil samples FS01 through FS26 were collected at an approximate depth of 2.5 feet bgs and composite sidewall soil samples SW01 through SW04 were collected from ground surface to approximately 2.5 feet bgs. The excavation soil samples were collected, handled, and analyzed as described above. The excavation extent and locations of final excavation confirmation samples are presented on Figure 3 and summarized in Table 1.

The laboratory analytical results reported chloride at a concentration above the Closure Criteria in sidewall soil sample SW04, which was located along the western sidewall of the excavation, and immediately adjacent to the containment. The area of SW04 was excavated to the MEP in

compliance with XTO safety policy regarding soil disturbance within 2 feet of active production equipment. The remaining confirmation soil samples were below the Closure Criteria for benzene, BTEX, TPH, and chloride. Based the analytical results from sidewall sample SW04 and the inability to advance the excavation further to the west, soil delineation appeared to be warranted for the release extent.

The excavation extent encompassed an area of approximately 5,188 square feet. A total volume of approximately 480 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

Delineation Activities

LTE personnel collected three potholes on February 28, 2020 in coordination with excavation activities to delineate remaining impacted soil immediately surrounding or beneath the containment. The excavation confirmation samples delineate residual impacted soil to the east of the containment. Potholes PH01, PH02, and PH03 were advanced to the north, south, and west, respectively, of the containment to a depth of approximately 2.5 feet bgs. Two discrete soil samples were collected from each pothole utilizing a backhoe at depths of approximately 1 foot and 2.5 feet bgs. Due to the presence of active production equipment and following XTO policy on restricting work being performed within 2 feet of active equipment, PH01 was used to laterally and vertically delineate impacted soil represented by SS04 that could not be remediated. Field screening results and observations for each pothole were logged on lithologic/soil sampling logs, which are included in Attachment 3. The discrete delineation soil samples were collected, handled, and analyzed as described above at Xenco in Carlsbad, New Mexico.

All delineation soil samples from pothole samples PH01 through PH03 were below the Closure Criteria for benzene, BTEX, TPH, and chloride. The delineation samples provide lateral delineation of impacted soil remaining in place, which exists immediatley surrounding the containment. Vertical delineation is defined at 2.5 feeet bgs by the excavation floor samples FS04 and FS07.

DEFERRAL REQUEST

The initial assessment, excavation confirmation, and delineation samples were all below the Closure Criteria for benzene, BTEX and TPH. Chloride in soil from the produced water release appeared to accumulate to the immediate east of the lined containment area at concentrations exceeding the Closure Criteria. As a result, impacted soil was remediated via excavation to the MEP. The active production equipment and associated containment limited complete removal of chloride-impacted soil surrounding the containment. Approximately 480 cubic yards of impacted soil were excavated from the Site. Although hydro-excavation and hand shoveling were conducted to remove impacted soil to the MEP in SS04, impacted soil to the immediate north,

west, and south of the lined containment was left in place for compliance with the XTO safety policy regarding soil-disturbing activities within 2 feet of active production equipment.

Residual impacted soil beneath or adjacent to the active production equipment is delineated laterally by delineation soil samples PH01 to the north, PH02 to the south, PH03 to the west, and excavation confirmation samples to the east. The laboratory analytical results for six delineation soil samples indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Confirmation floor soil samples FS01, FS04, and FS07 vertically delineated residual chloride impacts to 2.5 feet bgs.

An estimated 75 cubic yards of impacted soil remains in the 2 feet immediately adjacent to the containment assuming a maximum depth of 2.5 feet bgs. Due to the presence of active production equipment, attempts at excavation, hand shoveling, and hydro excavation in this area were limited. Therefore, XTO requests permission to backfill the eastern excavation and complete remediation of the remaining impacted soil in the area immediately surrounding the containment during any future major construction, final facility abandonment or when the structure is removed, whichever occurs first. LTE and XTO do not believe deferment will result in an imminent risk to human health, the environment, or groundwater.

XTO requests deferment of final remediation for Incident Number NVV2002451789. Upon approval of this Deferral Request, XTO will backfill the eastern excavation with material purchased locally and recontour the Site to match pre-existing Site conditions. A copy of the updated Form C-141 is included in this Deferral Request.

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

Sincerely,

LT ENVIRONMENTAL, INC.

Kevin M. Axe, P.G.
Senior Geologist

Ashley L. Ager, P.G.
Senior Geologist

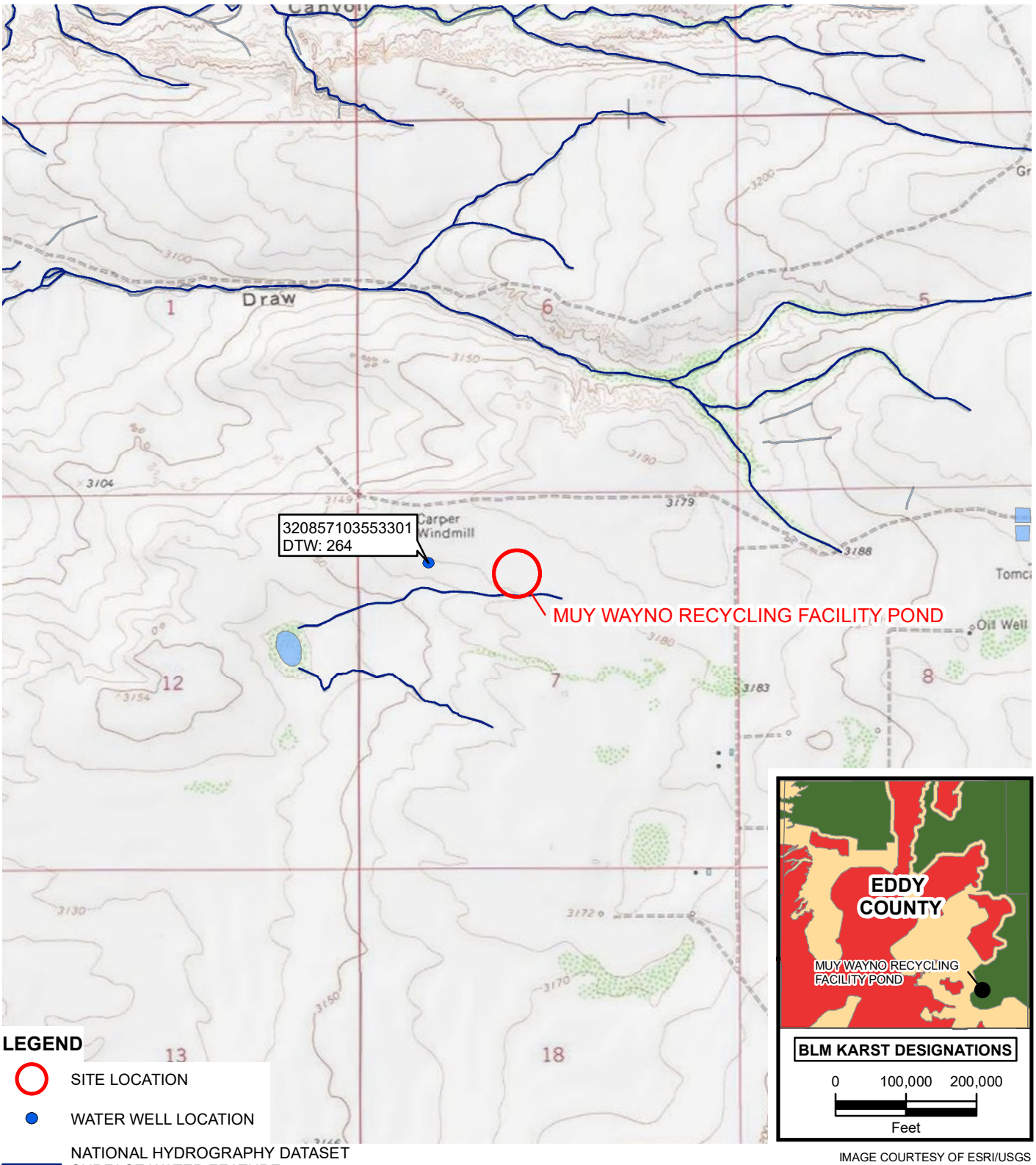
cc: Kyle Littrell, XTO
Ryann Mann, State Land Office
Robert Hamlet, NMOCD
Victoria Venegas, NMOCD

A proud member of WSP

Attachments:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Excavation Soil Sample locations
Figure 4	Delineation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Photographic Log
Attachment 2	Laboratory Analytical Reports
Attachment 3	Lithologic/Soil Sampling Logs

FIGURES



LEGEND

- SITE LOCATION
- WATER WELL LOCATION
- NATIONAL HYDROGRAPHY DATASET SURFACE WATER FEATURE
- NATIONAL WETLANDS INVENTORY SURFACE WATER FEATURE
- LOW KARST
- MEDIUM KARST
- HIGH KARST

NOTE: INCIDENT NUMBER NVV2002451789
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
MUY WAYNO RECYCLING FACILITY POND
UNIT C SEC 7 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920007_MUY WAYNO RECYCLING FACILITY\012920007_FIG01_SL_2020.mxd

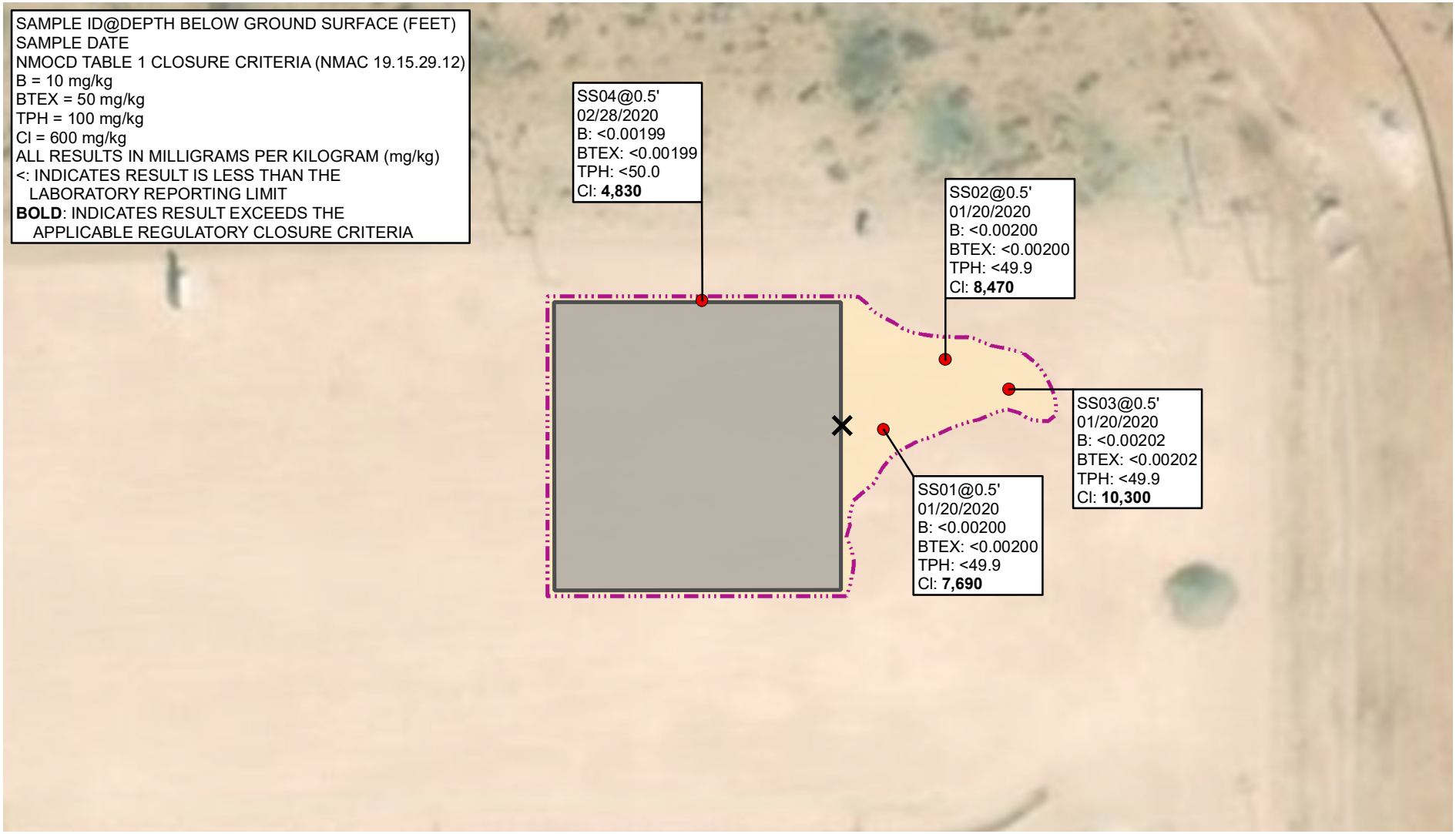


IMAGE COURTESY OF ESRI

LEGEND

- RELEASE LOCATION
- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT
- CONTAINMENT

0 60 120
Feet

N

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

NOTE: INCIDENT NUMBER NVV2002451789

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
MUY WAYNO RECYCLING FACILITY POND
UNIT C SEC 7 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920007_MUY WAYNO RECYCLING FACILITY\012920007_FIG02_PRELIMINARY_2020.mxd

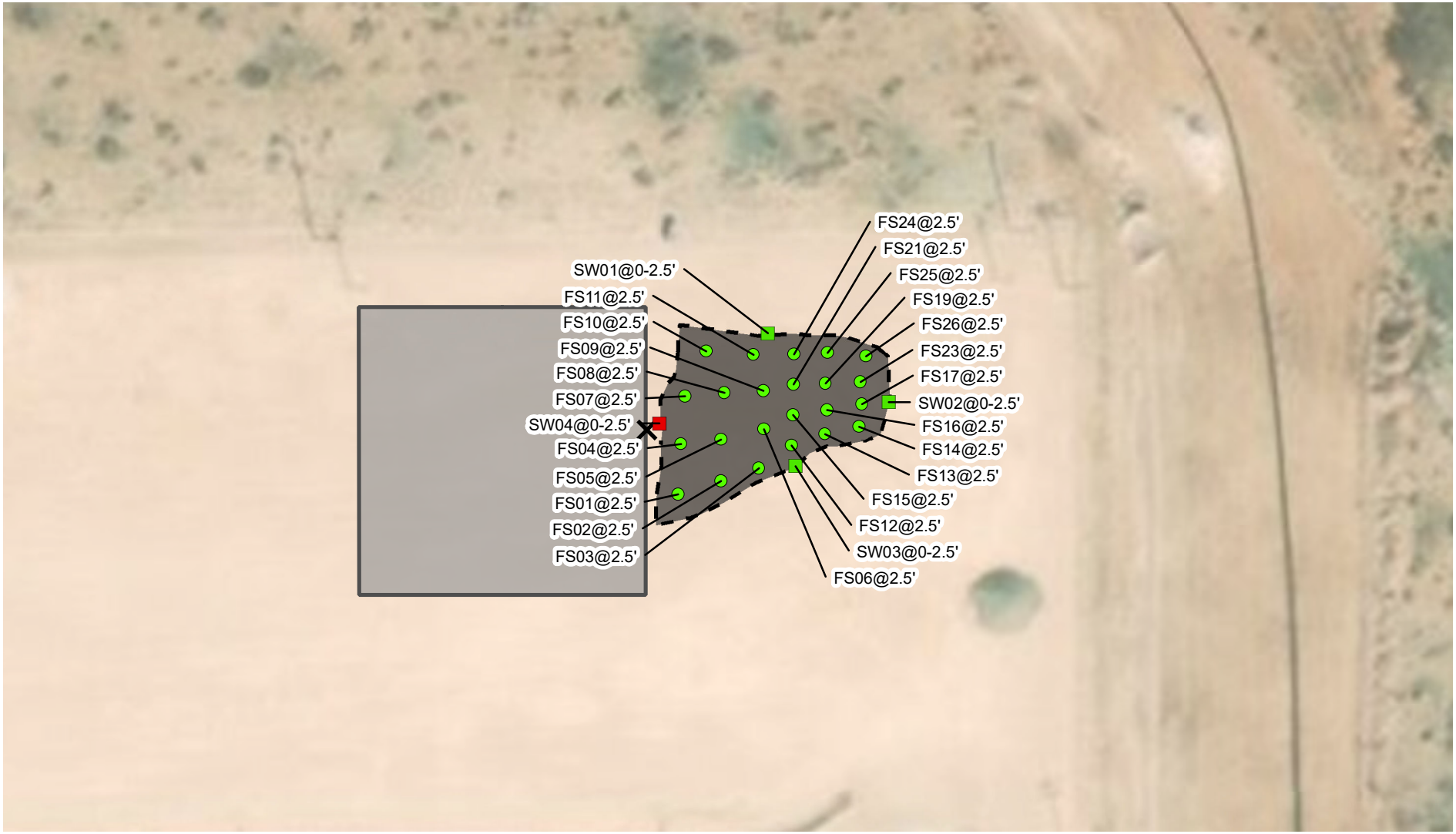


IMAGE COURTESY OF ESRI

LEGEND

- RELEASE LOCATION
- SIDEWALL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- EXCAVATION EXTENT
- CONTAINMENT

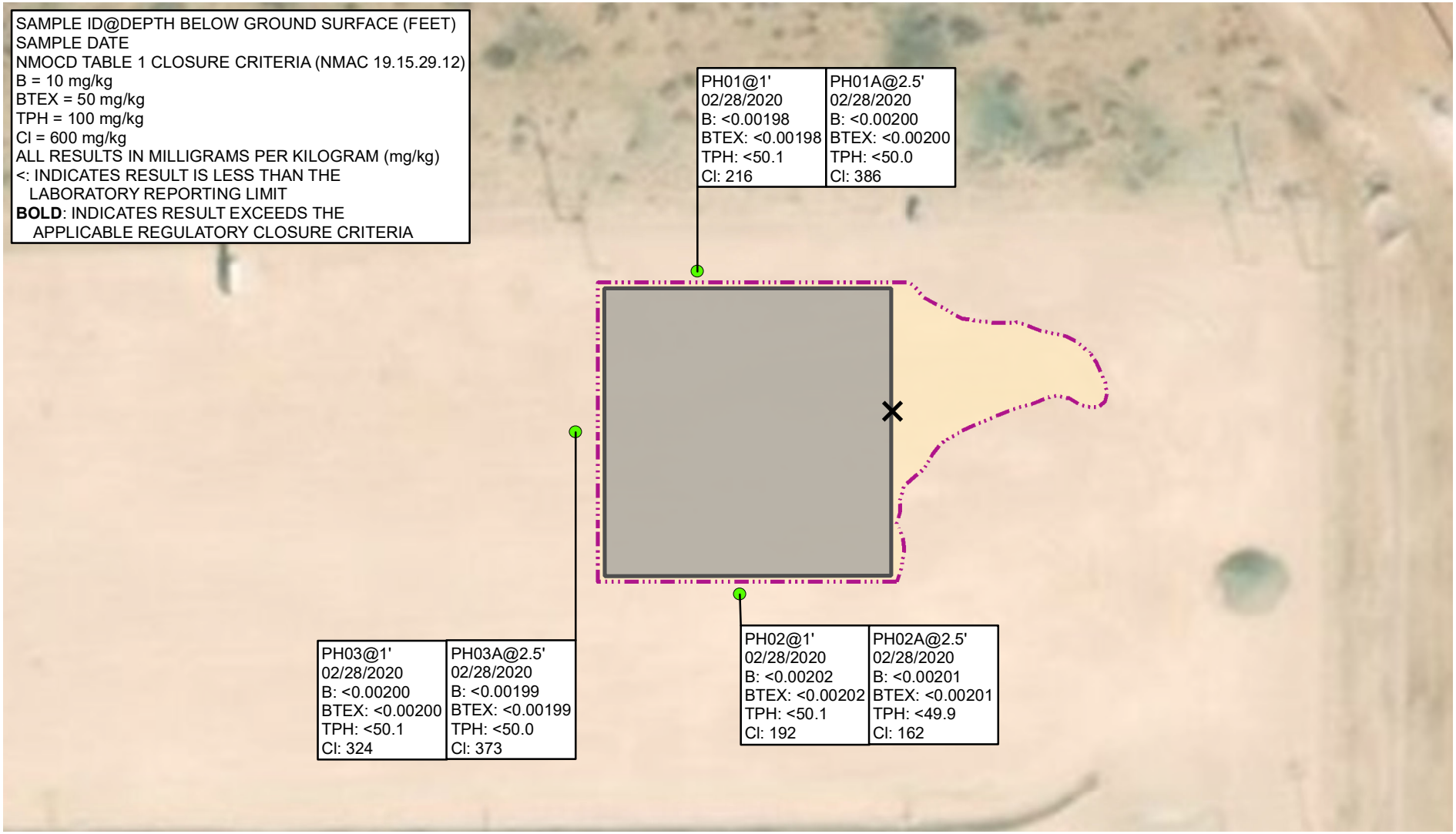
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
NOTE: INCIDENT NUMBER NVV2002451789

0 60 120
Feet

N

FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
MUY WAYNO RECYCLING FACILITY POND
UNIT C SEC 7 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920007_MUY WAYNO RECYCLING FACILITY\012920007_FIG03_EXCAVATION_2020.mxd



LEGEND

- RELEASE LOCATION
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT
- CONTAINMENT

0 60 120
Feet

N

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

NOTE: INCIDENT NUMBER NVV2002451789

FIGURE 4
DELINEATION SOIL SAMPLE LOCATIONS
MUY WAYNO RECYCLING FACILITY POND
UNIT C SEC 7 T25S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920007_MUY WAYNO RECYCLING FACILITY\012920007_FIG04_DELINEATION_2020.mxd

TABLES

TABLE 1
SOIL ANALYTICAL RESULTS

MUY WAYNO RECYCLING FACILITY POND
INCIDENT NUMBER NVV200241789
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			**10**	NE	NE	NE	**50**	NE	NE	NE	NE	**100**	**600**
SS01	0.5	01/20/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	**7,690**
SS02	0.5	01/20/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	**8,470**
SS03	0.5	01/20/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	**10,300**
SS04	0.5	02/28/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	**4,830**
PH01	1	02/28/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.1	<50.1	<50.1	<50.1	<50.1	216
PH01A	2.5	02/28/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	386
PH02	1	02/28/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	192
PH02A	2.5	02/28/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	162
PH03	1	02/28/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	324
PH03A	2.5	02/28/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	373
FS01	2.5	02/26/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	110
FS02	2.5	02/26/2020	<0.00503	<0.00503	<0.00503	<0.00503	<0.00503	<50.1	<50.1	<50.1	<50.1	<50.1	42.9
FS03	2.5	02/26/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	<9.98
FS04	2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	111
FS05	2.5	02/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.1	<50.1	<50.1	<50.1	<50.1	13.5
FS06	2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	<9.88
FS07	2.5	02/27/2020	<0.00198	<0.00198	<0.00198	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	68.7
FS08	2.5	02/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	61.5
FS09	2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.3	<50.3	<50.3	<50.3	<50.3	11.3
FS10	2.5	02/27/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	24.1
FS11	2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	18.4
FS12	2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	144
FS13	2.5	02/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	77.9

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TABLE 1
SOIL ANALYTICAL RESULTS

MUY WAYNO RECYCLING FACILITY POND
INCIDENT NUMBER NVV200241789
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria			**10**	NE	NE	NE	**50**	NE	NE	NE	NE	**100**	**600**
FS14	2.5	02/27/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.3	<50.3	<50.3	<50.3	<50.3	39.9
FS15	2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	26.6
FS16	2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	76.4
FS17	2.5	02/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	66.1
FS18	2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	148
FS19	2.5	02/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	81.2
FS20	2.5	02/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	43.1
FS21	2.5	02/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	45.5
FS22	2.5	02/27/2020	<0.00202	<0.00202	<0.00202	<0.00202	<0.00202	<50.1	<50.1	<50.1	<50.1	<50.1	30.0
FS23	2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	31.3
FS24	2.5	02/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	42.0
FS25	2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	28.6
FS26	2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	30.4
SW01	0 - 2.5	02/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.2	<50.2	<50.2	<50.2	<50.2	319
SW02	0 - 2.5	02/27/2020	<0.00199	<0.00199	<0.00199	<0.00199	<0.00199	<50.3	<50.3	<50.3	<50.3	<50.3	93.5
SW03	0 - 2.5	02/27/2020	<0.00201	<0.00201	<0.00201	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	583
SW04	0 - 2.5	02/27/2020	<0.00200	<0.00200	<0.00200	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	**3,090**

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

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ATTACHMENT 1: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG

Photograph 1: View from north side of containment, facing east.

Photograph 2: View of east side of lined containment where overflow occurred.

Photograph 3: View of excavation on east side of lined containment.

ATTACHMENT 2: LABORATORY ANALYTICAL REPORTS

Analytical Report 649710

for

LT Environmental, Inc.

Project Manager: Dan Moir

Muy Wayno Recycling Facility

012919306

29-JAN-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

29-JAN-20

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

Reference: XENCO Report No(s): **649710**
Muy Wayno Recycling Facility
Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 649710. 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. 649710 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Sample Cross Reference 649710

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	01-20-20 11:30	0.5 ft	649710-001
SS02	S	01-20-20 11:35	0.5 ft	649710-002
SS03	S	01-20-20 11:40	0.5 ft	649710-003

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Muy Wayno Recycling Facility

Project ID: *012919306*
Work Order Number(s): *649710*

Report Date: *29-JAN-20*
Date Received: *01/21/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3114750 BTEX by EPA 8021B

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

Certificate of Analysis Summary 649710

LT Environmental, Inc., Arvada, CO

Project Name: Muy Wayno Recycling Facility

Project Id: 012919306
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Tue Jan-21-20 08:30 am
Report Date: 29-JAN-20
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	649710-001		649710-002		649710-003					
	Field Id:	SS01		SS02		SS03					
	Depth:	0.5- ft		0.5- ft		0.5- ft					
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Jan-20-20 11:30		Jan-20-20 11:35		Jan-20-20 11:40					
BTEX by EPA 8021B SUB: T104704400-19-19	***Extracted:***	Jan-28-20 09:30		Jan-28-20 09:30		Jan-28-20 09:30					
	Analyzed:	Jan-28-20 20:25		Jan-28-20 20:45		Jan-28-20 21:05					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Toluene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Ethylbenzene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
m,p-Xylenes		<0.00399	0.00399	<0.00401	0.00401	<0.00403	0.00403				
o-Xylene		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Total Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Total BTEX		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Chloride by EPA 300 SUB: T104704400-19-19	***Extracted:***	Jan-22-20 14:20		Jan-22-20 14:20		Jan-22-20 14:20					
	Analyzed:	Jan-23-20 11:39		Jan-23-20 12:20		Jan-23-20 12:26					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		7690	50.0	8470	50.1	10300	49.6				
TPH by SW8015 Mod SUB: T104704400-19-19	***Extracted:***	Jan-23-20 10:00		Jan-23-20 10:00		Jan-23-20 10:00					
	Analyzed:	Jan-23-20 17:33		Jan-23-20 17:52		Jan-23-20 18:10					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9	<49.9	49.9				
Diesel Range Organics (DRO)		<49.9	49.9	<49.9	49.9	<49.9	49.9				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.9	49.9	<49.9	49.9				
Total GRO-DRO		<49.9	49.9	<49.9	49.9	<49.9	49.9				
Total TPH		<49.9	49.9	<49.9	49.9	<49.9	49.9				

Jessica Kramer
Project Assistant

Certificate of Analytical Results 649710

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	01.21.20 08.30
Lab Sample Id:	649710-001	Date Collected:	01.20.20 11.30	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.22.20 14.20	Basis:	Wet Weight
Seq Number:	3114286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**7690**	50.0	mg/kg	01.23.20 11.39		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	01.23.20 10.00	Basis:	Wet Weight
Seq Number:	3114321			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.23.20 17.33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.23.20 17.33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.23.20 17.33	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	01.23.20 17.33	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.23.20 17.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-135	01.23.20 17.33	
o-Terphenyl	84-15-1	79	%	70-135	01.23.20 17.33	

Certificate of Analytical Results 649710

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SS01**	Matrix:	Soil	Date Received:	01.21.20 08.30
Lab Sample Id:	649710-001	Date Collected:	01.20.20 11.30	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	01.28.20 09.30	Basis:	Wet Weight
Seq Number:	3114750			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.28.20 20.25	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.28.20 20.25	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.28.20 20.25	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.28.20 20.25	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.28.20 20.25	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.28.20 20.25	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.28.20 20.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	01.28.20 20.25	
4-Bromofluorobenzene	460-00-4	75	%	70-130	01.28.20 20.25	

Certificate of Analytical Results 649710

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	01.21.20 08.30
Lab Sample Id:	649710-002	Date Collected:	01.20.20 11.35	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.22.20 14.20	Basis:	Wet Weight
Seq Number:	3114286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8470**	50.1	mg/kg	01.23.20 12.20		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	01.23.20 10.00	Basis:	Wet Weight
Seq Number:	3114321			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.23.20 17.52	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.23.20 17.52	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.23.20 17.52	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	01.23.20 17.52	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.23.20 17.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-135	01.23.20 17.52	
o-Terphenyl	84-15-1	80	%	70-135	01.23.20 17.52	

Certificate of Analytical Results 649710

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SS02**	Matrix:	Soil	Date Received:	01.21.20 08.30
Lab Sample Id:	649710-002	Date Collected:	01.20.20 11.35	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	01.28.20 09.30	Basis:	Wet Weight
Seq Number:	3114750			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.28.20 20.45	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.28.20 20.45	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.28.20 20.45	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.28.20 20.45	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.28.20 20.45	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.28.20 20.45	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.28.20 20.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	83	%	70-130	01.28.20 20.45	
1,4-Difluorobenzene	540-36-3	113	%	70-130	01.28.20 20.45	

Certificate of Analytical Results 649710

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	01.21.20 08.30
Lab Sample Id:	649710-003	Date Collected:	01.20.20 11.40	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	01.22.20 14.20	Basis:	Wet Weight
Seq Number:	3114286			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10300**	49.6	mg/kg	01.23.20 12.26		10

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	01.23.20 10.00	Basis:	Wet Weight
Seq Number:	3114321			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.23.20 18.10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.23.20 18.10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.23.20 18.10	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	01.23.20 18.10	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.23.20 18.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	76	%	70-135	01.23.20 18.10	
o-Terphenyl	84-15-1	79	%	70-135	01.23.20 18.10	

Certificate of Analytical Results 649710

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SS03**	Matrix:	Soil	Date Received:	01.21.20 08.30
Lab Sample Id:	649710-003	Date Collected:	01.20.20 11.40	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	01.28.20 09.30	Basis:	Wet Weight
Seq Number:	3114750			SUB:	T104704400-19-19

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.28.20 21.05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.28.20 21.05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.28.20 21.05	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.28.20 21.05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.28.20 21.05	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.28.20 21.05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.28.20 21.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	110	%	70-130	01.28.20 21.05	
4-Bromofluorobenzene	460-00-4	81	%	70-130	01.28.20 21.05	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 649710

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3114286 Matrix: Solid Date Prep: 01.22.20
MB Sample Id: 7694959-1-BLK LCS Sample Id: 7694959-1-BKS LCSD Sample Id: 7694959-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	256	102	254	102	90-110	1	20	mg/kg	01.23.20 09:12	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3114286 Matrix: Soil Date Prep: 01.22.20
Parent Sample Id: 649801-009 MS Sample Id: 649801-009 S MSD Sample Id: 649801-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	182	249	444	105	446	106	90-110	0	20	mg/kg	01.23.20 11:57	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3114286 Matrix: Soil Date Prep: 01.22.20
Parent Sample Id: 649801-010 MS Sample Id: 649801-010 S MSD Sample Id: 649801-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	41.3	252	309	106	306	105	90-110	1	20	mg/kg	01.23.20 13:22	

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3114321 Matrix: Solid Date Prep: 01.23.20
MB Sample Id: 7695046-1-BLK LCS Sample Id: 7695046-1-BKS LCSD Sample Id: 7695046-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	838	84	865	87	70-135	3	20	mg/kg	01.23.20 12:54	
Diesel Range Organics (DRO)	<15.0	1000	876	88	916	92	70-135	4	20	mg/kg	01.23.20 12:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	79		100		101		70-135	%	01.23.20 12:54
o-Terphenyl	82		88		85		70-135	%	01.23.20 12:54

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3114321 Matrix: Solid Date Prep: 01.23.20
MB Sample Id: 7695046-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.23.20 12:36	

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

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

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

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

QC Summary 649710

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3114321 Matrix: Soil Date Prep: 01.23.20
Parent Sample Id: 649595-001 MS Sample Id: 649595-001 S MSD Sample Id: 649595-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	883	88	844	84	70-135	5	20	mg/kg	01.23.20 13:50	
Diesel Range Organics (DRO)	19.0	998	847	83	828	81	70-135	2	20	mg/kg	01.23.20 13:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		102		70-135	%	01.23.20 13:50
o-Terphenyl	88		87		70-135	%	01.23.20 13:50

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3114750 Matrix: Solid Date Prep: 01.28.20
MB Sample Id: 7695314-1-BLK LCS Sample Id: 7695314-1-BKS LCSD Sample Id: 7695314-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.108	108	0.110	110	70-130	2	35	mg/kg	01.28.20 17:46	
Toluene	<0.000456	0.100	0.106	106	0.104	104	70-130	2	35	mg/kg	01.28.20 17:46	
Ethylbenzene	<0.000565	0.100	0.102	102	0.0993	99	70-130	3	35	mg/kg	01.28.20 17:46	
m,p-Xylenes	<0.00101	0.200	0.201	101	0.195	98	70-130	3	35	mg/kg	01.28.20 17:46	
o-Xylene	<0.000344	0.100	0.0993	99	0.0975	98	70-130	2	35	mg/kg	01.28.20 17:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		111		108		70-130	%	01.28.20 17:46
4-Bromofluorobenzene	76		88		85		70-130	%	01.28.20 17:46

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3114750 Matrix: Soil Date Prep: 01.28.20
Parent Sample Id: 649594-001 MS Sample Id: 649594-001 S MSD Sample Id: 649594-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.000584	0.100	0.104	103	0.0935	93	70-130	11	35	mg/kg	01.28.20 18:26	
Toluene	0.000624	0.100	0.103	102	0.0950	94	70-130	8	35	mg/kg	01.28.20 18:26	
Ethylbenzene	<0.000565	0.100	0.0995	100	0.0894	89	70-130	11	35	mg/kg	01.28.20 18:26	
m,p-Xylenes	<0.00101	0.200	0.194	97	0.176	88	70-130	10	35	mg/kg	01.28.20 18:26	
o-Xylene	0.000473	0.100	0.0956	95	0.0867	86	70-130	10	35	mg/kg	01.28.20 18:26	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		108		70-130	%	01.28.20 18:26
4-Bromofluorobenzene	89		89		70-130	%	01.28.20 18:26

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

Chain of Custody

Work Order No: 049710

XENCO LABORATORIES

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

www.xenco.com Page 1 of 1

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

Work Order Comments

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

Project Name:	Muy Wayno Recycling Facility	Turn Around	
Project Number:	012919306	Routine	X
P.O. Number:	Eddy County	Rush:	
Sampler's Name:	Elizabeth Naka	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	4.2	Thermometer ID	T-NM-007
Received Intact:	(Yes) No	Correction Factor:	-0.2
Cooler Custody Seals:	Yes No N/A	Total Containers:	3
Sample Custody Seals:	Yes No N/A		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
SS01	S	1/20/20	1130	0.5'	1	X	X	X
SS02	↓	↓	1135	↓	↓	↓	↓	↓
SS03	↓	↓	1140	↓	↓	↓	↓	↓

Work Order Notes

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

Sample Comments

SS01: discrete
SS02: ↓
SS03: ↓

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

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Elizabeth Naka		8:18 1/21/20	2		1/21/20 830
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Inter-Office Shipment

IOS Number **56472**

Date/Time: 01/21/20 11:09
Lab# From: **Carlsbad**
Lab# To: **Midland**

Created by: Elizabeth Mcclellan
Delivery Priority:
Air Bill No.:

Please send report to: Jessica Kramer
Address: 1089 N Canal Street
E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
649710-001	S	SS01	01/20/20 11:30	E300_CL	Chloride by EPA 300	01/27/20	02/17/20	JKR	CL	
649710-001	S	SS01	01/20/20 11:30	SW8015MOD_NM	TPH by SW8015 Mod	01/27/20	02/03/20	JKR	GRO-DRO PHCC10C28 PI	
649710-001	S	SS01	01/20/20 11:30	SW8021B	BTEX by EPA 8021B	01/27/20	02/03/20	JKR	BZ BZME EBZ XYLENES	
649710-002	S	SS02	01/20/20 11:35	E300_CL	Chloride by EPA 300	01/27/20	02/17/20	JKR	CL	
649710-002	S	SS02	01/20/20 11:35	SW8015MOD_NM	TPH by SW8015 Mod	01/27/20	02/03/20	JKR	GRO-DRO PHCC10C28 PI	
649710-002	S	SS02	01/20/20 11:35	SW8021B	BTEX by EPA 8021B	01/27/20	02/03/20	JKR	BZ BZME EBZ XYLENES	
649710-003	S	SS03	01/20/20 11:40	E300_CL	Chloride by EPA 300	01/27/20	02/17/20	JKR	CL	
649710-003	S	SS03	01/20/20 11:40	SW8015MOD_NM	TPH by SW8015 Mod	01/27/20	02/03/20	JKR	GRO-DRO PHCC10C28 PI	
649710-003	S	SS03	01/20/20 11:40	SW8021B	BTEX by EPA 8021B	01/27/20	02/03/20	JKR	BZ BZME EBZ XYLENES	

Inter Office Shipment or Sample Comments:

Relinquished By: Elizabeth McClellan

Date Relinquished: 01/21/2020

Received By: Brianna Teel

Date Received: 01/22/2020 11:14

Cooler Temperature: 0.5

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 56472

Acceptable Temperature Range: 0 - 6 degC
Air and Metal samples Acceptable Range: Ambient
Temperature Measuring device used : R8

Sent By: Elizabeth McClellan **Date Sent:** 01/21/2020 11:09 AM

Received By: Brianna Teel **Date Received:** 01/22/2020 11:14 AM

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	.5	
#2 *Shipping container in good condition?	**Yes**	
#3 *Samples received with appropriate temperature?	**Yes**	
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**	
#5 *Custody Seals Signed and dated for Containers/coolers	**Yes**	
#6 *IOS present?	**Yes**	
#7 Any missing/extra samples?	**No**	
#8 IOS agrees with sample label(s)/matrix?	**Yes**	
#9 Sample matrix/ properties agree with IOS?	**Yes**	
#10 Samples in proper container/ bottle?	**Yes**	
#11 Samples properly preserved?	**Yes**	
#12 Sample container(s) intact?	**Yes**	
#13 Sufficient sample amount for indicated test(s)?	**Yes**	
#14 All samples received within hold time?	**Yes**	

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ **Contacted by :** _____ **Date:** _____

Checklist reviewed by: Brianna Teel Date: 01/22/2020

Brianna Teel

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 01.21.2020 08.30.00 AM

Work Order #: 649710

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

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist		Comments
#1 *Temperature of cooler(s)?	4.2	
#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?	**Yes**	
#7 *Chain of Custody present?	**Yes**	
#8 Any missing/extra samples?	**No**	
#9 Chain of Custody signed when relinquished/ received?	**Yes**	
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**	
#11 Container label(s) legible and intact?	**Yes**	
#12 Samples in proper container/ bottle?	**Yes**	
#13 Samples properly preserved?	**Yes**	
#14 Sample container(s) intact?	**Yes**	
#15 Sufficient sample amount for indicated test(s)?	**Yes**	
#16 All samples received within hold time?	**Yes**	
#17 Subcontract of sample(s)?	**Yes**	Subbed to Midland.
#18 Water VOC samples have zero headspace?	**N/A**	

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 01.21.2020

Checklist reviewed by: Jessica Kramer Date: 01.21.2020

Jessica Kramer

Analytical Report 654051

for

LT Environmental, Inc.

Project Manager: Dan Moir

Muy Wayno Recycling Facility

012920007

02-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

02-MAR-20

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

Reference: XENCO Report No(s): **654051**
Muy Wayno Recycling Facility
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 654051. 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. 654051 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Sample Cross Reference 654051

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS01	S	02-26-20 15:04	2.5 ft	654051-001
FS02	S	02-26-20 15:06	2.5 ft	654051-002
FS03	S	02-26-20 15:10	2.5 ft	654051-003
FS04	S	02-27-20 10:32	2.5 ft	654051-004
FS05	S	02-27-20 10:34	2.5 ft	654051-005
FS06	S	02-27-20 10:37	2.5 ft	654051-006
FS07	S	02-27-20 10:40	2.5 ft	654051-007
FS08	S	02-27-20 10:45	2.5 ft	654051-008
FS09	S	02-27-20 10:49	2.5 ft	654051-009
FS10	S	02-27-20 12:02	2.5 ft	654051-010
FS11	S	02-27-20 12:04	2.5 ft	654051-011
FS12	S	02-27-20 13:52	2.5 ft	654051-012
FS13	S	02-27-20 13:53	2.5 ft	654051-013
FS14	S	02-27-20 13:55	2.5 ft	654051-014
FS15	S	02-27-20 14:08	2.5 ft	654051-015
FS16	S	02-27-20 14:09	2.5 ft	654051-016
FS17	S	02-27-20 14:12	2.5 ft	654051-017
FS18	S	02-27-20 14:50	2.5 ft	654051-018
FS19	S	02-27-20 14:52	2.5 ft	654051-019
FS20	S	02-27-20 14:54	2.5 ft	654051-020
FS22	S	02-27-20 15:08	2.5 ft	654051-021
FS23	S	02-27-20 15:10	2.5 ft	654051-022
FS24	S	02-27-20 15:23	2.5 ft	654051-023
FS25	S	02-27-20 15:25	2.5 ft	654051-024
FS26	S	02-27-20 15:26	2.5 ft	654051-025
SW01	S	02-27-20 12:44	0 - 2.5 ft	654051-026
SW02	S	02-27-20 13:25	0 - 2.5 ft	654051-027
SW03	S	02-27-20 13:31	0 - 2.5 ft	654051-028
SW04	S	02-27-20 13:35	0 - 2.5 ft	654051-029

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Muy Wayno Recycling Facility

Project ID: *012920007*
Work Order Number(s): *654051*

Report Date: *02-MAR-20*
Date Received: *02/28/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3118140 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3118143 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3118145 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3118153 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Certificate of Analysis Summary 654051

LT Environmental, Inc., Arvada, CO

Project Name: Muy Wayno Recycling Facility

Project Id: 012920007
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Feb-28-20 08:35 am
Report Date: 02-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654051-001		654051-002		654051-003		654051-004		654051-005		654051-006	
	Field Id:	FS01		FS02		FS03		FS04		FS05		FS06	
	Depth:	2.5- ft		2.5- ft		2.5- ft		2.5- ft		2.5- ft		2.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-26-20 15:04		Feb-26-20 15:06		Feb-26-20 15:10		Feb-27-20 10:32		Feb-27-20 10:34		Feb-27-20 10:37	
BTEX by EPA 8021B	***Extracted:***	Feb-28-20 10:34		Feb-28-20 10:34		Feb-28-20 10:34		Feb-28-20 10:34		Feb-28-20 10:34		Feb-28-20 12:13	
	Analyzed:	Feb-28-20 19:39		Feb-28-20 20:00		Feb-28-20 20:20		Feb-28-20 20:40		Feb-28-20 21:01		Feb-29-20 00:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00201	0.00201	<0.00503	0.00503	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Toluene		<0.00201	0.00201	<0.00503	0.00503	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Ethylbenzene		<0.00201	0.00201	<0.00503	0.00503	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
m,p-Xylenes		<0.00402	0.00402	<0.0101	0.0101	<0.00399	0.00399	<0.00401	0.00401	<0.00402	0.00402	<0.00401	0.00401
o-Xylene		<0.00201	0.00201	<0.00503	0.00503	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Total Xylenes		<0.00201	0.00201	<0.00503	0.00503	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Total BTEX		<0.00201	0.00201	<0.00503	0.00503	<0.00200	0.00200	<0.00200	0.00200	<0.00201	0.00201	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Feb-28-20 12:30		Feb-28-20 12:30		Feb-28-20 12:30		Feb-28-20 12:30		Feb-28-20 12:30		Feb-28-20 12:30	
	Analyzed:	Feb-28-20 16:19		Feb-28-20 16:26		Feb-28-20 16:33		Feb-28-20 16:39		Feb-28-20 16:45		Feb-28-20 16:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		110	10.0	42.9	10.1	<9.98	9.98	111	9.92	13.5	9.96	<9.88	9.88
TPH by SW8015 Mod	***Extracted:***	Feb-28-20 15:05		Feb-28-20 15:05		Feb-28-20 15:05		Feb-28-20 15:05		Feb-28-20 15:05		Feb-28-20 15:05	
	Analyzed:	Feb-28-20 22:49		Feb-28-20 22:49		Feb-28-20 23:09		Feb-28-20 23:09		Feb-28-20 23:29		Feb-28-20 23:29	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.1	50.1	<50.2	50.2	<50.0	50.0	<50.1	50.1	<50.2	50.2
Diesel Range Organics (DRO)		<50.2	50.2	<50.1	50.1	<50.2	50.2	<50.0	50.0	<50.1	50.1	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.1	50.1	<50.2	50.2	<50.0	50.0	<50.1	50.1	<50.2	50.2
Total GRO-DRO		<50.2	50.2	<50.1	50.1	<50.2	50.2	<50.0	50.0	<50.1	50.1	<50.2	50.2
Total TPH		<50.2	50.2	<50.1	50.1	<50.2	50.2	<50.0	50.0	<50.1	50.1	<50.2	50.2

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Version: 1.%

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 654051

LT Environmental, Inc., Arvada, CO

Project Name: Muy Wayno Recycling Facility

Project Id: 012920007
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Feb-28-20 08:35 am
Report Date: 02-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654051-007		654051-008		654051-009		654051-010		654051-011		654051-012	
	Field Id:	FS07		FS08		FS09		FS10		FS11		FS12	
	Depth:	2.5- ft		2.5- ft		2.5- ft		2.5- ft		2.5- ft		2.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-27-20 10:40		Feb-27-20 10:45		Feb-27-20 10:49		Feb-27-20 12:02		Feb-27-20 12:04		Feb-27-20 13:52	
BTEX by EPA 8021B	***Extracted:***	Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 12:13	
	Analyzed:	Feb-29-20 00:25		Feb-29-20 00:45		Feb-29-20 01:06		Feb-29-20 01:26		Feb-29-20 01:46		Feb-29-20 02:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
Toluene		<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
Ethylbenzene		<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
m,p-Xylenes		<0.00397	0.00397	<0.00398	0.00398	<0.00399	0.00399	<0.00403	0.00403	<0.00401	0.00401	<0.00400	0.00400
o-Xylene		<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
Total Xylenes		<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
Total BTEX		<0.00198	0.00198	<0.00199	0.00199	<0.00200	0.00200	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Feb-28-20 12:30		Feb-28-20 12:30		Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00	
	Analyzed:	Feb-28-20 16:58		Feb-28-20 17:04		Feb-28-20 17:41		Feb-28-20 17:59		Feb-28-20 18:05		Feb-28-20 18:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		68.7	10.0	61.5	10.0	11.3	9.98	24.1	10.1	18.4	10.1	144	10.1
TPH by SW8015 Mod	***Extracted:***	Feb-28-20 15:05		Feb-28-20 15:05		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00	
	Analyzed:	Feb-28-20 23:49		Feb-28-20 23:49		Feb-29-20 01:28		Feb-29-20 01:47		Feb-29-20 02:07		Feb-29-20 02:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.2	50.2	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.1	50.1
Diesel Range Organics (DRO)		<50.0	50.0	<50.2	50.2	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.2	50.2	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.1	50.1
Total GRO-DRO		<50.0	50.0	<50.2	50.2	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.1	50.1
Total TPH		<50.0	50.0	<50.2	50.2	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.1	50.1

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Version: 1.%

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 654051

LT Environmental, Inc., Arvada, CO

Project Name: Muy Wayno Recycling Facility

Project Id: 012920007
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Feb-28-20 08:35 am
Report Date: 02-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654051-013		654051-014		654051-015		654051-016		654051-017		654051-018	
	Field Id:	FS13		FS14		FS15		FS16		FS17		FS18	
	Depth:	2.5- ft		2.5- ft		2.5- ft		2.5- ft		2.5- ft		2.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-27-20 13:53		Feb-27-20 13:55		Feb-27-20 14:08		Feb-27-20 14:09		Feb-27-20 14:12		Feb-27-20 14:50	
BTEX by EPA 8021B	***Extracted:***	Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 12:13	
	Analyzed:	Feb-29-20 02:27		Feb-29-20 02:48		Feb-29-20 03:08		Feb-29-20 04:09		Feb-29-20 04:30		Feb-29-20 04:50	
	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	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00403	0.00403	<0.00401	0.00401	<0.00400	0.00400	<0.00398	0.00398	<0.00399	0.00399
o-Xylene		<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00202	0.00202	<0.00200	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00	
	Analyzed:	Feb-28-20 18:17		Feb-28-20 18:36		Feb-28-20 18:42		Feb-28-20 18:51		Feb-28-20 18:57		Feb-28-20 19:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		77.9	9.96	39.9	9.98	26.6	9.96	76.4	9.98	66.1	10.1	148	10.0
TPH by SW8015 Mod	***Extracted:***	Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00	
	Analyzed:	Feb-29-20 02:27		Feb-29-20 02:27		Feb-29-20 02:47		Feb-29-20 02:47		Feb-29-20 03:07		Feb-29-20 03:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.1	50.1
Diesel Range Organics (DRO)		<50.2	50.2	<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.1	50.1
Total GRO-DRO		<50.2	50.2	<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.1	50.1
Total TPH		<50.2	50.2	<50.3	50.3	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.1	50.1

Version: 1.%

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 654051

LT Environmental, Inc., Arvada, CO

Project Name: Muy Wayno Recycling Facility

Project Id: 012920007
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Feb-28-20 08:35 am
Report Date: 02-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654051-019		654051-020		654051-021		654051-022		654051-023		654051-024	
	Field Id:	FS19		FS20		FS22		FS23		FS24		FS25	
	Depth:	2.5- ft		2.5- ft		2.5- ft		2.5- ft		2.5- ft		2.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-27-20 14:52		Feb-27-20 14:54		Feb-27-20 15:08		Feb-27-20 15:10		Feb-27-20 15:23		Feb-27-20 15:25	
BTEX by EPA 8021B	***Extracted:***	Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 18:00	
	Analyzed:	Feb-29-20 05:10		Feb-29-20 05:31		Feb-29-20 05:51		Feb-29-20 06:12		Feb-29-20 06:32		Feb-29-20 00:01	
	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	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Toluene		<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Ethylbenzene		<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
m,p-Xylenes		<0.00398	0.00398	<0.00402	0.00402	<0.00403	0.00403	<0.00399	0.00399	<0.00398	0.00398	<0.00401	0.00401
o-Xylene		<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total Xylenes		<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Total BTEX		<0.00199	0.00199	<0.00201	0.00201	<0.00202	0.00202	<0.00200	0.00200	<0.00199	0.00199	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00	
	Analyzed:	Feb-28-20 19:08		Feb-28-20 19:25		Feb-28-20 19:31		Feb-28-20 19:48		Feb-28-20 19:54		Feb-28-20 19:59	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		81.2	9.94	43.1	9.98	30.0	10.0	31.3	10.0	42.0	10.1	28.6	10.1
TPH by SW8015 Mod	***Extracted:***	Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00	
	Analyzed:	Feb-29-20 04:06		Feb-29-20 04:06		Feb-29-20 04:26		Feb-29-20 04:26		Feb-29-20 04:46		Feb-29-20 04:46	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.2	50.2	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.2	50.2
Diesel Range Organics (DRO)		<50.2	50.2	<50.2	50.2	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.2	50.2
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.2	50.2	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.2	50.2
Total GRO-DRO		<50.2	50.2	<50.2	50.2	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.2	50.2
Total TPH		<50.2	50.2	<50.2	50.2	<50.1	50.1	<50.1	50.1	<50.2	50.2	<50.2	50.2

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Version: 1.%

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 654051

LT Environmental, Inc., Arvada, CO

Project Name: Muy Wayno Recycling Facility

Project Id: 012920007
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Feb-28-20 08:35 am
Report Date: 02-MAR-20
Project Manager: Jessica Kramer

Analysis Requested																	
	Lab Id:	654051-025		654051-026		654051-027		654051-028		654051-029							
	Field Id:	FS26		SW01		SW02		SW03		SW04							
	Depth:	2.5- ft		0-2.5 ft		0-2.5 ft		0-2.5 ft		0-2.5 ft							
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL							
	Sampled:	Feb-27-20 15:26		Feb-27-20 12:44		Feb-27-20 13:25		Feb-27-20 13:31		Feb-27-20 13:35							
BTEX by EPA 8021B	***Extracted:***	Feb-28-20 12:13		Feb-28-20 12:13		Feb-28-20 18:00		Feb-28-20 11:00		Feb-28-20 11:00							
	Analyzed:	Feb-29-20 06:53		Feb-29-20 07:54		Feb-29-20 00:21		Feb-28-20 20:17		Feb-28-20 20:37							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Benzene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200						
Toluene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200						
Ethylbenzene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200						
m,p-Xylenes		<0.00400	0.00400	<0.00398	0.00398	<0.00398	0.00398	<0.00402	0.00402	<0.00401	0.00401						
o-Xylene		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200						
Total Xylenes		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200						
Total BTEX		<0.00200	0.00200	<0.00199	0.00199	<0.00199	0.00199	<0.00201	0.00201	<0.00200	0.00200						
Chloride by EPA 300	***Extracted:***	Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 16:00		Feb-28-20 17:00							
	Analyzed:	Feb-28-20 20:05		Feb-28-20 20:11		Feb-28-20 20:16		Feb-28-20 20:22		Feb-28-20 21:13							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Chloride		30.4	9.96	319	50.1	93.5	49.7	583	49.9	3090	50.4						
TPH by SW8015 Mod	***Extracted:***	Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 19:09							
	Analyzed:	Feb-29-20 05:05		Feb-29-20 05:05		Feb-29-20 05:25		Feb-29-20 05:25		Feb-29-20 07:04							
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL						
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.2	50.2	<50.3	50.3	<49.8	49.8	<50.0	50.0						
Diesel Range Organics (DRO)		<50.2	50.2	<50.2	50.2	<50.3	50.3	<49.8	49.8	<50.0	50.0						
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.2	50.2	<50.3	50.3	<49.8	49.8	<50.0	50.0						
Total GRO-DRO		<50.2	50.2	<50.2	50.2	<50.3	50.3	<49.8	49.8	<50.0	50.0						
Total TPH		<50.2	50.2	<50.2	50.2	<50.3	50.3	<49.8	49.8	<50.0	50.0						

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Version: 1.%

Jessica Kramer
Project Assistant

Certificate of Analytical Results 654051

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-001	Date Collected:	02.26.20 15.04	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.30	Basis:	Wet Weight
Seq Number:	3118166				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**110**	10.0	mg/kg	02.28.20 16.19		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 15.05	Basis:	Wet Weight
Seq Number:	3118180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.28.20 22.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.28.20 22.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.28.20 22.49	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.28.20 22.49	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.28.20 22.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	02.28.20 22.49	
o-Terphenyl	84-15-1	128	%	70-135	02.28.20 22.49	

Certificate of Analytical Results 654051

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS01**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-001	Date Collected:	02.26.20 15.04	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 10.34	Basis:	Wet Weight
Seq Number:	3118140				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.28.20 19.39	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.28.20 19.39	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.28.20 19.39	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.28.20 19.39	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.28.20 19.39	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.28.20 19.39	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.28.20 19.39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.28.20 19.39	
1,4-Difluorobenzene	540-36-3	105	%	70-130	02.28.20 19.39	

Certificate of Analytical Results 654051

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-002	Date Collected:	02.26.20 15.06	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.30	Basis:	Wet Weight
Seq Number:	3118166				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**42.9**	10.1	mg/kg	02.28.20 16.26		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 15.05	Basis:	Wet Weight
Seq Number:	3118180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.28.20 22.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.28.20 22.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.28.20 22.49	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.28.20 22.49	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.28.20 22.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	02.28.20 22.49	
o-Terphenyl	84-15-1	128	%	70-135	02.28.20 22.49	

Certificate of Analytical Results 654051

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS02**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-002	Date Collected:	02.26.20 15.06	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 10.34	Basis:	Wet Weight
Seq Number:	3118140				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00503	0.00503	mg/kg	02.28.20 20.00	U	1
Toluene	108-88-3	<0.00503	0.00503	mg/kg	02.28.20 20.00	U	1
Ethylbenzene	100-41-4	<0.00503	0.00503	mg/kg	02.28.20 20.00	U	1
m,p-Xylenes	179601-23-1	<0.0101	0.0101	mg/kg	02.28.20 20.00	U	1
o-Xylene	95-47-6	<0.00503	0.00503	mg/kg	02.28.20 20.00	U	1
Total Xylenes	1330-20-7	<0.00503	0.00503	mg/kg	02.28.20 20.00	U	1
Total BTEX		<0.00503	0.00503	mg/kg	02.28.20 20.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.28.20 20.00	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.28.20 20.00	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-003	Date Collected:	02.26.20 15.10	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.30	Basis:	Wet Weight
Seq Number:	3118166				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.98	9.98	mg/kg	02.28.20 16.33	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 15.05	Basis:	Wet Weight
Seq Number:	3118180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.28.20 23.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.28.20 23.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.28.20 23.09	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.28.20 23.09	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.28.20 23.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	02.28.20 23.09	
o-Terphenyl	84-15-1	117	%	70-135	02.28.20 23.09	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS03**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-003	Date Collected:	02.26.20 15.10	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 10.34	Basis:	Wet Weight
Seq Number:	3118140				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.28.20 20.20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.28.20 20.20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.28.20 20.20	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.28.20 20.20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.28.20 20.20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.28.20 20.20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.28.20 20.20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.28.20 20.20	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.28.20 20.20	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-004	Date Collected:	02.27.20 10.32	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.30	Basis:	Wet Weight
Seq Number:	3118166				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**111**	9.92	mg/kg	02.28.20 16.39		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 15.05	Basis:	Wet Weight
Seq Number:	3118180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.28.20 23.09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.28.20 23.09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.28.20 23.09	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.28.20 23.09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.28.20 23.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	02.28.20 23.09	
o-Terphenyl	84-15-1	119	%	70-135	02.28.20 23.09	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS04**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-004	Date Collected:	02.27.20 10.32	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 10.34	Basis:	Wet Weight
Seq Number:	3118140				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.28.20 20.40	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.28.20 20.40	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.28.20 20.40	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.28.20 20.40	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.28.20 20.40	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.28.20 20.40	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.28.20 20.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.28.20 20.40	
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.28.20 20.40	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-005	Date Collected:	02.27.20 10.34	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.30	Basis:	Wet Weight
Seq Number:	3118166				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.5**	9.96	mg/kg	02.28.20 16.45		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 15.05	Basis:	Wet Weight
Seq Number:	3118180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.28.20 23.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.28.20 23.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.28.20 23.29	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.28.20 23.29	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.28.20 23.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	02.28.20 23.29	
o-Terphenyl	84-15-1	125	%	70-135	02.28.20 23.29	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS05**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-005	Date Collected:	02.27.20 10.34	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 10.34	Basis:	Wet Weight
Seq Number:	3118140				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.28.20 21.01	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.28.20 21.01	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.28.20 21.01	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.28.20 21.01	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.28.20 21.01	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.28.20 21.01	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.28.20 21.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	02.28.20 21.01	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.28.20 21.01	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS06**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-006	Date Collected:	02.27.20 10.37	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.30	Basis:	Wet Weight
Seq Number:	3118166				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.88	9.88	mg/kg	02.28.20 16.52	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 15.05	Basis:	Wet Weight
Seq Number:	3118180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.28.20 23.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.28.20 23.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.28.20 23.29	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.28.20 23.29	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.28.20 23.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	02.28.20 23.29	
o-Terphenyl	84-15-1	121	%	70-135	02.28.20 23.29	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS06**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-006	Date Collected:	02.27.20 10.37	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 00.04	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 00.04	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 00.04	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.29.20 00.04	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 00.04	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 00.04	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 00.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	02.29.20 00.04	
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.29.20 00.04	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS07**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-007	Date Collected:	02.27.20 10.40	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.30	Basis:	Wet Weight
Seq Number:	3118166				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**68.7**	10.0	mg/kg	02.28.20 16.58		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 15.05	Basis:	Wet Weight
Seq Number:	3118180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.28.20 23.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.28.20 23.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.28.20 23.49	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.28.20 23.49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.28.20 23.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	02.28.20 23.49	
o-Terphenyl	84-15-1	114	%	70-135	02.28.20 23.49	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS07**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-007	Date Collected:	02.27.20 10.40	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.29.20 00.25	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.29.20 00.25	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.29.20 00.25	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	02.29.20 00.25	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.29.20 00.25	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.29.20 00.25	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.29.20 00.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	02.29.20 00.25	
1,4-Difluorobenzene	540-36-3	98	%	70-130	02.29.20 00.25	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS08**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-008	Date Collected:	02.27.20 10.45	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.30	Basis:	Wet Weight
Seq Number:	3118166				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**61.5**	10.0	mg/kg	02.28.20 17.04		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 15.05	Basis:	Wet Weight
Seq Number:	3118180				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.28.20 23.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.28.20 23.49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.28.20 23.49	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.28.20 23.49	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.28.20 23.49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	02.28.20 23.49	
o-Terphenyl	84-15-1	125	%	70-135	02.28.20 23.49	

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Muy Wayno Recycling Facility

Sample Id:	**FS08**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-008	Date Collected:	02.27.20 10.45	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.29.20 00.45	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.29.20 00.45	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.29.20 00.45	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.29.20 00.45	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.29.20 00.45	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.29.20 00.45	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.29.20 00.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	02.29.20 00.45	
4-Bromofluorobenzene	460-00-4	94	%	70-130	02.29.20 00.45	

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Muy Wayno Recycling Facility

Sample Id:	**FS09**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-009	Date Collected:	02.27.20 10.49	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11.3**	9.98	mg/kg	02.28.20 17.41		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	02.29.20 01.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	02.29.20 01.28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	02.29.20 01.28	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	02.29.20 01.28	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	02.29.20 01.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	02.29.20 01.28	
o-Terphenyl	84-15-1	127	%	70-135	02.29.20 01.28	

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Sample Id:	**FS09**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-009	Date Collected:	02.27.20 10.49	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 01.06	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 01.06	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 01.06	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.29.20 01.06	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 01.06	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 01.06	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 01.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 01.06	
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.29.20 01.06	

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Sample Id:	**FS10**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-010	Date Collected:	02.27.20 12.02	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**24.1**	10.1	mg/kg	02.28.20 17.59		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.29.20 01.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.29.20 01.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.29.20 01.47	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.29.20 01.47	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.29.20 01.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-135	02.29.20 01.47	
o-Terphenyl	84-15-1	134	%	70-135	02.29.20 01.47	

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Sample Id:	**FS10**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-010	Date Collected:	02.27.20 12.02	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.29.20 01.26	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.29.20 01.26	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.29.20 01.26	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.29.20 01.26	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.29.20 01.26	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.29.20 01.26	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.29.20 01.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	02.29.20 01.26	
1,4-Difluorobenzene	540-36-3	102	%	70-130	02.29.20 01.26	

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Sample Id:	**FS11**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-011	Date Collected:	02.27.20 12.04	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**18.4**	10.1	mg/kg	02.28.20 18.05		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.29.20 02.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.29.20 02.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.29.20 02.07	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.29.20 02.07	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.29.20 02.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	02.29.20 02.07	
o-Terphenyl	84-15-1	124	%	70-135	02.29.20 02.07	

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Sample Id:	**FS11**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-011	Date Collected:	02.27.20 12.04	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 01.46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 01.46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 01.46	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.29.20 01.46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 01.46	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 01.46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 01.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.29.20 01.46	
1,4-Difluorobenzene	540-36-3	103	%	70-130	02.29.20 01.46	

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Muy Wayno Recycling Facility

Sample Id:	**FS12**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-012	Date Collected:	02.27.20 13.52	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**144**	10.1	mg/kg	02.28.20 18.11		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.29.20 02.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.29.20 02.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.29.20 02.07	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.29.20 02.07	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.29.20 02.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	02.29.20 02.07	
o-Terphenyl	84-15-1	118	%	70-135	02.29.20 02.07	

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Sample Id:	**FS12**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-012	Date Collected:	02.27.20 13.52	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 02.07	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 02.07	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 02.07	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.29.20 02.07	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 02.07	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 02.07	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 02.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.29.20 02.07	
1,4-Difluorobenzene	540-36-3	105	%	70-130	02.29.20 02.07	

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Muy Wayno Recycling Facility

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-013	Date Collected:	02.27.20 13.53	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**77.9**	9.96	mg/kg	02.28.20 18.17		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.29.20 02.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.29.20 02.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.29.20 02.27	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.29.20 02.27	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.29.20 02.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	02.29.20 02.27	
o-Terphenyl	84-15-1	126	%	70-135	02.29.20 02.27	

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Muy Wayno Recycling Facility

Sample Id:	**FS13**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-013	Date Collected:	02.27.20 13.53	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.29.20 02.27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.29.20 02.27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.29.20 02.27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.29.20 02.27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.29.20 02.27	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.29.20 02.27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.29.20 02.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.29.20 02.27	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 02.27	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-014	Date Collected:	02.27.20 13.55	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**39.9**	9.98	mg/kg	02.28.20 18.36		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	02.29.20 02.27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	02.29.20 02.27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	02.29.20 02.27	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	02.29.20 02.27	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	02.29.20 02.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	02.29.20 02.27	
o-Terphenyl	84-15-1	120	%	70-135	02.29.20 02.27	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS14**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-014	Date Collected:	02.27.20 13.55	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.29.20 02.48	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.29.20 02.48	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.29.20 02.48	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.29.20 02.48	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.29.20 02.48	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.29.20 02.48	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.29.20 02.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 02.48	
4-Bromofluorobenzene	460-00-4	99	%	70-130	02.29.20 02.48	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-015	Date Collected:	02.27.20 14.08	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26.6**	9.96	mg/kg	02.28.20 18.42		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.29.20 02.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.29.20 02.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.29.20 02.47	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.29.20 02.47	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.29.20 02.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	02.29.20 02.47	
o-Terphenyl	84-15-1	129	%	70-135	02.29.20 02.47	

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Muy Wayno Recycling Facility

Sample Id:	**FS15**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-015	Date Collected:	02.27.20 14.08	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 03.08	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 03.08	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 03.08	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.29.20 03.08	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 03.08	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 03.08	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 03.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.29.20 03.08	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 03.08	

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Muy Wayno Recycling Facility

Sample Id:	**FS16**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-016	Date Collected:	02.27.20 14.09	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**76.4**	9.98	mg/kg	02.28.20 18.51		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.29.20 02.47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.29.20 02.47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.29.20 02.47	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.29.20 02.47	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.29.20 02.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	02.29.20 02.47	
o-Terphenyl	84-15-1	127	%	70-135	02.29.20 02.47	

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Muy Wayno Recycling Facility

Sample Id:	**FS16**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-016	Date Collected:	02.27.20 14.09	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 04.09	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 04.09	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 04.09	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.29.20 04.09	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 04.09	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 04.09	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 04.09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	02.29.20 04.09	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 04.09	

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Sample Id:	**FS17**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-017	Date Collected:	02.27.20 14.12	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**66.1**	10.1	mg/kg	02.28.20 18.57		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.29.20 03.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.29.20 03.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.29.20 03.07	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.29.20 03.07	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.29.20 03.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	02.29.20 03.07	
o-Terphenyl	84-15-1	122	%	70-135	02.29.20 03.07	

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Sample Id:	**FS17**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-017	Date Collected:	02.27.20 14.12	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.29.20 04.30	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.29.20 04.30	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.29.20 04.30	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.29.20 04.30	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.29.20 04.30	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.29.20 04.30	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.29.20 04.30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	02.29.20 04.30	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 04.30	

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Sample Id:	**FS18**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-018	Date Collected:	02.27.20 14.50	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**148**	10.0	mg/kg	02.28.20 19.03		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.29.20 03.07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.29.20 03.07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.29.20 03.07	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.29.20 03.07	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.29.20 03.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	02.29.20 03.07	
o-Terphenyl	84-15-1	122	%	70-135	02.29.20 03.07	

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Sample Id:	**FS18**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-018	Date Collected:	02.27.20 14.50	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 04.50	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 04.50	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 04.50	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.29.20 04.50	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 04.50	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 04.50	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 04.50	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	96	%	70-130	02.29.20 04.50	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 04.50	

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Sample Id:	**FS19**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-019	Date Collected:	02.27.20 14.52	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**81.2**	9.94	mg/kg	02.28.20 19.08		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.29.20 04.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.29.20 04.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.29.20 04.06	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.29.20 04.06	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.29.20 04.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	02.29.20 04.06	
o-Terphenyl	84-15-1	132	%	70-135	02.29.20 04.06	

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Sample Id:	**FS19**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-019	Date Collected:	02.27.20 14.52	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.29.20 05.10	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.29.20 05.10	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.29.20 05.10	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.29.20 05.10	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.29.20 05.10	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.29.20 05.10	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.29.20 05.10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 05.10	
4-Bromofluorobenzene	460-00-4	96	%	70-130	02.29.20 05.10	

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Muy Wayno Recycling Facility

Sample Id:	**FS20**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-020	Date Collected:	02.27.20 14.54	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**43.1**	9.98	mg/kg	02.28.20 19.25		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.29.20 04.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.29.20 04.06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.29.20 04.06	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.29.20 04.06	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.29.20 04.06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	02.29.20 04.06	
o-Terphenyl	84-15-1	110	%	70-135	02.29.20 04.06	

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Muy Wayno Recycling Facility

Sample Id:	**FS20**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-020	Date Collected:	02.27.20 14.54	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.29.20 05.31	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.29.20 05.31	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.29.20 05.31	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.29.20 05.31	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.29.20 05.31	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.29.20 05.31	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.29.20 05.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 05.31	
4-Bromofluorobenzene	460-00-4	104	%	70-130	02.29.20 05.31	

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Muy Wayno Recycling Facility

Sample Id:	**FS22**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-021	Date Collected:	02.27.20 15.08	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**30.0**	10.0	mg/kg	02.28.20 19.31		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.29.20 04.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.29.20 04.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.29.20 04.26	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.29.20 04.26	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.29.20 04.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	02.29.20 04.26	
o-Terphenyl	84-15-1	122	%	70-135	02.29.20 04.26	

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Muy Wayno Recycling Facility

Sample Id:	**FS22**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-021	Date Collected:	02.27.20 15.08	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.29.20 05.51	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.29.20 05.51	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.29.20 05.51	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.29.20 05.51	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.29.20 05.51	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.29.20 05.51	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.29.20 05.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.29.20 05.51	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 05.51	

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Muy Wayno Recycling Facility

Sample Id:	**FS23**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-022	Date Collected:	02.27.20 15.10	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**31.3**	10.0	mg/kg	02.28.20 19.48		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.29.20 04.26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.29.20 04.26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.29.20 04.26	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.29.20 04.26	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.29.20 04.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	02.29.20 04.26	
o-Terphenyl	84-15-1	122	%	70-135	02.29.20 04.26	

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Sample Id:	**FS23**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-022	Date Collected:	02.27.20 15.10	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 06.12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 06.12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 06.12	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.29.20 06.12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 06.12	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 06.12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 06.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 06.12	
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.29.20 06.12	

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Sample Id:	**FS24**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-023	Date Collected:	02.27.20 15.23	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**42.0**	10.1	mg/kg	02.28.20 19.54		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.29.20 04.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.29.20 04.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.29.20 04.46	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.29.20 04.46	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.29.20 04.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	02.29.20 04.46	
o-Terphenyl	84-15-1	128	%	70-135	02.29.20 04.46	

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Sample Id:	**FS24**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-023	Date Collected:	02.27.20 15.23	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.29.20 06.32	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.29.20 06.32	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.29.20 06.32	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.29.20 06.32	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.29.20 06.32	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.29.20 06.32	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.29.20 06.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.29.20 06.32	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 06.32	

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Sample Id:	**FS25**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-024	Date Collected:	02.27.20 15.25	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**28.6**	10.1	mg/kg	02.28.20 19.59		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.29.20 04.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.29.20 04.46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.29.20 04.46	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.29.20 04.46	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.29.20 04.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-135	02.29.20 04.46	
o-Terphenyl	84-15-1	127	%	70-135	02.29.20 04.46	

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Muy Wayno Recycling Facility

Sample Id:	**FS25**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-024	Date Collected:	02.27.20 15.25	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 18.00	Basis:	Wet Weight
Seq Number:	3118153				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 00.01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 00.01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 00.01	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.29.20 00.01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 00.01	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 00.01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 00.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.29.20 00.01	
1,4-Difluorobenzene	540-36-3	112	%	70-130	02.29.20 00.01	

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Sample Id:	**FS26**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-025	Date Collected:	02.27.20 15.26	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**30.4**	9.96	mg/kg	02.28.20 20.05		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.29.20 05.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.29.20 05.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.29.20 05.05	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.29.20 05.05	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.29.20 05.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	02.29.20 05.05	
o-Terphenyl	84-15-1	129	%	70-135	02.29.20 05.05	

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Sample Id:	**FS26**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-025	Date Collected:	02.27.20 15.26	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 06.53	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 06.53	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 06.53	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	02.29.20 06.53	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 06.53	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 06.53	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 06.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	97	%	70-130	02.29.20 06.53	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 06.53	

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Muy Wayno Recycling Facility

Sample Id:	**SW01**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-026	Date Collected:	02.27.20 12.44	Sample Depth:	0 - 2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**319**	50.1	mg/kg	02.28.20 20.11		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	02.29.20 05.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	02.29.20 05.05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	02.29.20 05.05	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	02.29.20 05.05	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	02.29.20 05.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-135	02.29.20 05.05	
o-Terphenyl	84-15-1	135	%	70-135	02.29.20 05.05	

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Sample Id:	**SW01**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-026	Date Collected:	02.27.20 12.44	Sample Depth:	0 - 2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 12.13	Basis:	Wet Weight
Seq Number:	3118145				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.29.20 07.54	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.29.20 07.54	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.29.20 07.54	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.29.20 07.54	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.29.20 07.54	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.29.20 07.54	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.29.20 07.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	98	%	70-130	02.29.20 07.54	
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 07.54	

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LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-027	Date Collected:	02.27.20 13.25	Sample Depth:	0 - 2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**93.5**	49.7	mg/kg	02.28.20 20.16		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	02.29.20 05.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	02.29.20 05.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	02.29.20 05.25	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	02.29.20 05.25	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	02.29.20 05.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	130	%	70-135	02.29.20 05.25	
o-Terphenyl	84-15-1	126	%	70-135	02.29.20 05.25	

Certificate of Analytical Results 654051

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SW02**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-027	Date Collected:	02.27.20 13.25	Sample Depth:	0 - 2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 18.00	Basis:	Wet Weight
Seq Number:	3118153				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.29.20 00.21	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.29.20 00.21	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.29.20 00.21	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.29.20 00.21	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.29.20 00.21	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.29.20 00.21	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.29.20 00.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	90	%	70-130	02.29.20 00.21	
1,4-Difluorobenzene	540-36-3	90	%	70-130	02.29.20 00.21	

Certificate of Analytical Results 654051

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-028	Date Collected:	02.27.20 13.31	Sample Depth:	0 - 2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 16.00	Basis:	Wet Weight
Seq Number:	3118168				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**583**	49.9	mg/kg	02.28.20 20.22		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	CAC	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118175				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.29.20 05.25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	02.29.20 05.25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.29.20 05.25	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	02.29.20 05.25	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	02.29.20 05.25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	02.29.20 05.25	
o-Terphenyl	84-15-1	125	%	70-135	02.29.20 05.25	

Certificate of Analytical Results 654051

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SW03**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-028	Date Collected:	02.27.20 13.31	Sample Depth:	0 - 2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 11.00	Basis:	Wet Weight
Seq Number:	3118143				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.28.20 20.17	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.28.20 20.17	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.28.20 20.17	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.28.20 20.17	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.28.20 20.17	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.28.20 20.17	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.28.20 20.17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	02.28.20 20.17	
1,4-Difluorobenzene	540-36-3	111	%	70-130	02.28.20 20.17	

Certificate of Analytical Results 654051

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-029	Date Collected:	02.27.20 13.35	Sample Depth:	0 - 2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3090**	50.4	mg/kg	02.28.20 21.13		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 19.09	Basis:	Wet Weight
Seq Number:	3118192				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.29.20 07.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.29.20 07.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.29.20 07.04	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.29.20 07.04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.29.20 07.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-135	02.29.20 07.04	
o-Terphenyl	84-15-1	94	%	70-135	02.29.20 07.04	

Certificate of Analytical Results 654051

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SW04**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654051-029	Date Collected:	02.27.20 13.35	Sample Depth:	0 - 2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 11.00	Basis:	Wet Weight
Seq Number:	3118143				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.28.20 20.37	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.28.20 20.37	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.28.20 20.37	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	02.28.20 20.37	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.28.20 20.37	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.28.20 20.37	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.28.20 20.37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	90	%	70-130	02.28.20 20.37	
4-Bromofluorobenzene	460-00-4	87	%	70-130	02.28.20 20.37	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 654051

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118166 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697742-1-BLK — LCS Sample Id: 7697742-1-BKS — LCSD Sample Id: 7697742-1-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	261	104	262	105	90-110	0	20	mg/kg	02.28.20 13:52	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118168 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697766-1-BLK — LCS Sample Id: 7697766-1-BKS — LCSD Sample Id: 7697766-1-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	261	104	261	104	90-110	0	20	mg/kg	02.28.20 17:28	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118170 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697767-1-BLK — LCS Sample Id: 7697767-1-BKS — LCSD Sample Id: 7697767-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	251	100	225	90	90-110	11	20	mg/kg	02.28.20 20:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118166 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654048-006 — MS Sample Id: 654048-006 S — MSD Sample Id: 654048-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	588	201	799	105	792	102	90-110	1	20	mg/kg	02.28.20 14:28	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118166 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654048-016 — MS Sample Id: 654048-016 S — MSD Sample Id: 654048-016 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	626	201	838	105	839	105	90-110	0	20	mg/kg	02.28.20 15:49	

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

QC Summary 654051

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118168 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654051-009 — MS Sample Id: 654051-009 S — MSD Sample Id: 654051-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	11.3	200	222	105	224	106	90-110	1	20	mg/kg	02.28.20 17:47	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118168 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654051-019 — MS Sample Id: 654051-019 S — MSD Sample Id: 654051-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	81.2	200	294	106	295	107	90-110	0	20	mg/kg	02.28.20 19:14	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118170 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654052-001 — MS Sample Id: 654052-001 S — MSD Sample Id: 654052-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	45.5	200	258	106	260	107	90-110	1	20	mg/kg	02.28.20 21:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118170 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654164-001 — MS Sample Id: 654164-001 S — MSD Sample Id: 654164-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	216	199	420	103	423	104	90-110	1	20	mg/kg	02.28.20 22:27	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118180 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697770-1-BLK — LCS Sample Id: 7697770-1-BKS — LCSD Sample Id: 7697770-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1110	111	996	100	70-135	11	35	mg/kg	02.28.20 19:12	
Diesel Range Organics (DRO)	<50.0	1000	1110	111	1030	103	70-135	7	35	mg/kg	02.28.20 19:12	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	91		127		114		70-135	%	02.28.20 19:12
o-Terphenyl	101		129		120		70-135	%	02.28.20 19:12

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

QC Summary 654051

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118175 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697769-1-BLK — LCS Sample Id: 7697769-1-BKS — LCSD Sample Id: 7697769-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1070	107	974	97	70-135	9	35	mg/kg	02.29.20 00:48	
Diesel Range Organics (DRO)	<50.0	1000	1100	110	985	99	70-135	11	35	mg/kg	02.29.20 00:48	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		123		110		70-135	%	02.29.20 00:48
o-Terphenyl	101		130		116		70-135	%	02.29.20 00:48

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118192 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697771-1-BLK — LCS Sample Id: 7697771-1-BKS — LCSD Sample Id: 7697771-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	885	89	910	91	70-135	3	35	mg/kg	02.29.20 06:24	
Diesel Range Organics (DRO)	<50.0	1000	961	96	987	99	70-135	3	35	mg/kg	02.29.20 06:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		111		113		70-135	%	02.29.20 06:24
o-Terphenyl	108		109		111		70-135	%	02.29.20 06:24

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118180 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697770-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.28.20 18:52	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118175 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697769-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.29.20 00:28	

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

QC Summary 654051

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118192 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697771-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.29.20 06:05	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118180 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654048-006 — MS Sample Id: 654048-006 S — MSD Sample Id: 654048-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	846	85	903	89	70-135	7	35	mg/kg	02.28.20 19:51	
Diesel Range Organics (DRO)	<49.9	998	975	98	1010	100	70-135	4	35	mg/kg	02.28.20 19:51	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		122		70-135	%	02.28.20 19:51
o-Terphenyl	119		112		70-135	%	02.28.20 19:51

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118175 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654051-009 — MS Sample Id: 654051-009 S — MSD Sample Id: 654051-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	999	805	81	831	83	70-135	3	35	mg/kg	02.29.20 01:28	
Diesel Range Organics (DRO)	<50.0	999	916	92	940	94	70-135	3	35	mg/kg	02.29.20 01:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	124		117		70-135	%	02.29.20 01:28
o-Terphenyl	114		129		70-135	%	02.29.20 01:28

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118192 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654051-029 — MS Sample Id: 654051-029 S — MSD Sample Id: 654051-029 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.5	1010	964	95	906	91	70-135	6	35	mg/kg	03.02.20 12:44	
Diesel Range Organics (DRO)	<50.5	1010	1190	118	1020	102	70-135	15	35	mg/kg	03.02.20 12:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		115		70-135	%	03.02.20 12:44
o-Terphenyl	128		114		70-135	%	03.02.20 12:44

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

QC Summary 654051

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118140 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697713-1-BLK — LCS Sample Id: 7697713-1-BKS — LCSD Sample Id: 7697713-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.109	109	0.106	106	70-130	3	35	mg/kg	02.28.20 11:09	
Toluene	<0.00200	0.100	0.106	106	0.103	103	70-130	3	35	mg/kg	02.28.20 11:09	
Ethylbenzene	<0.00200	0.100	0.102	102	0.0993	99	71-129	3	35	mg/kg	02.28.20 11:09	
m,p-Xylenes	<0.00400	0.200	0.212	106	0.205	103	70-135	3	35	mg/kg	02.28.20 11:09	
o-Xylene	<0.00200	0.100	0.105	105	0.102	102	71-133	3	35	mg/kg	02.28.20 11:09	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		104		105		70-130	%	02.28.20 11:09
4-Bromofluorobenzene	94		95		95		70-130	%	02.28.20 11:09

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118143 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697714-1-BLK — LCS Sample Id: 7697714-1-BKS — LCSD Sample Id: 7697714-1-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	0.119	119	0.120	120	70-130	1	35	mg/kg	02.28.20 12:08	
Toluene	<0.00200	0.100	0.110	110	0.111	111	70-130	1	35	mg/kg	02.28.20 12:08	
Ethylbenzene	<0.00200	0.100	0.105	105	0.106	106	71-129	1	35	mg/kg	02.28.20 12:08	
m,p-Xylenes	<0.00400	0.200	0.205	103	0.207	104	70-135	1	35	mg/kg	02.28.20 12:08	
o-Xylene	<0.00200	0.100	0.103	103	0.104	104	71-133	1	35	mg/kg	02.28.20 12:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		111		110		70-130	%	02.28.20 12:08
4-Bromofluorobenzene	90		88		89		70-130	%	02.28.20 12:08

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118145 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697746-1-BLK — LCS Sample Id: 7697746-1-BKS — LCSD Sample Id: 7697746-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.100	0.111	111	0.106	106	70-130	5	35	mg/kg	02.28.20 22:22	
Toluene	<0.00200	0.100	0.106	106	0.102	102	70-130	4	35	mg/kg	02.28.20 22:22	
Ethylbenzene	<0.00200	0.100	0.100	100	0.0960	96	71-129	4	35	mg/kg	02.28.20 22:22	
m,p-Xylenes	<0.00400	0.200	0.205	103	0.197	99	70-135	4	35	mg/kg	02.28.20 22:22	
o-Xylene	<0.00200	0.100	0.104	104	0.0999	100	71-133	4	35	mg/kg	02.28.20 22:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	104		104		104		70-130	%	02.28.20 22:22
4-Bromofluorobenzene	92		92		92		70-130	%	02.28.20 22:22

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

QC Summary 654051

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118153 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697768-1-BLK — LCS Sample Id: 7697768-1-BKS — LCSD Sample Id: 7697768-1-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	0.119	119	0.116	116	70-130	3	35	mg/kg	02.28.20 22:19	
Toluene	<0.00200	0.100	0.108	108	0.106	106	70-130	2	35	mg/kg	02.28.20 22:19	
Ethylbenzene	<0.00200	0.100	0.103	103	0.101	101	71-129	2	35	mg/kg	02.28.20 22:19	
m,p-Xylenes	<0.00400	0.200	0.201	101	0.198	99	70-135	2	35	mg/kg	02.28.20 22:19	
o-Xylene	<0.00200	0.100	0.103	103	0.101	101	71-133	2	35	mg/kg	02.28.20 22:19	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		111		110		70-130	%	02.28.20 22:19
4-Bromofluorobenzene	92		88		88		70-130	%	02.28.20 22:19

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118140 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654041-015 — MS Sample Id: 654041-015 S — MSD Sample Id: 654041-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.114	114	0.119	119	70-130	4	35	mg/kg	02.28.20 11:50	
Toluene	<0.00201	0.100	0.111	111	0.116	116	70-130	4	35	mg/kg	02.28.20 11:50	
Ethylbenzene	<0.00201	0.100	0.105	105	0.111	111	71-129	6	35	mg/kg	02.28.20 11:50	
m,p-Xylenes	<0.00402	0.201	0.214	106	0.233	117	70-135	9	35	mg/kg	02.28.20 11:50	
o-Xylene	<0.00201	0.100	0.106	106	0.111	111	71-133	5	35	mg/kg	02.28.20 11:50	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	02.28.20 11:50
4-Bromofluorobenzene	96		122		70-130	%	02.28.20 11:50

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118143 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654048-001 — MS Sample Id: 654048-001 S — MSD Sample Id: 654048-001 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	0.125	125	0.126	126	70-130	1	35	mg/kg	02.28.20 12:48	
Toluene	<0.00200	0.100	0.125	125	0.116	116	70-130	7	35	mg/kg	02.28.20 12:48	
Ethylbenzene	<0.00200	0.100	0.119	119	0.108	108	71-129	10	35	mg/kg	02.28.20 12:48	
m,p-Xylenes	<0.00401	0.200	0.231	116	0.210	105	70-135	10	35	mg/kg	02.28.20 12:48	
o-Xylene	<0.00200	0.100	0.115	115	0.107	107	71-133	7	35	mg/kg	02.28.20 12:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		109		70-130	%	02.28.20 12:48
4-Bromofluorobenzene	89		91		70-130	%	02.28.20 12:48

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

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

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

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

QC Summary 654051

LT Environmental, Inc.

Muy Wayno Recycling Facility

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

Seq Number: 3118145 Matrix: Soil Date Prep: 02.28.20

Parent Sample Id: 654051-006 MS Sample Id: 654051-006 S MSD Sample Id: 654051-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00201	0.100	0.114	114	0.103	103	70-130	10	35	mg/kg	02.28.20 23:03	
Toluene	<0.00201	0.100	0.109	109	0.0981	98	70-130	11	35	mg/kg	02.28.20 23:03	
Ethylbenzene	<0.00201	0.100	0.104	104	0.0921	92	71-129	12	35	mg/kg	02.28.20 23:03	
m,p-Xylenes	<0.00402	0.201	0.214	106	0.188	94	70-135	13	35	mg/kg	02.28.20 23:03	
o-Xylene	<0.00201	0.100	0.107	107	0.0949	95	71-133	12	35	mg/kg	02.28.20 23:03	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	105		104		70-130	%	02.28.20 23:03
4-Bromofluorobenzene	96		95		70-130	%	02.28.20 23:03

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

Seq Number: 3118153 Matrix: Soil Date Prep: 02.28.20

Parent Sample Id: 654051-024 MS Sample Id: 654051-024 S MSD Sample Id: 654051-024 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.113	114	0.104	104	70-130	8	35	mg/kg	02.28.20 23:00	
Toluene	<0.00199	0.0994	0.104	105	0.0941	94	70-130	10	35	mg/kg	02.28.20 23:00	
Ethylbenzene	<0.00199	0.0994	0.0990	100	0.0878	88	71-129	12	35	mg/kg	02.28.20 23:00	
m,p-Xylenes	<0.00398	0.199	0.192	96	0.170	85	70-135	12	35	mg/kg	02.28.20 23:00	
o-Xylene	<0.00199	0.0994	0.0973	98	0.0873	87	71-133	11	35	mg/kg	02.28.20 23:00	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		109		70-130	%	02.28.20 23:00
4-Bromofluorobenzene	92		89		70-130	%	02.28.20 23:00

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

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

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

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

Chain of Custody

Work Order No: 654051

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

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

Work Order Comments

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

Project Name:	Muy Wayno Recycling Facility	Turn Around	
Project Number:	012920007	Routine: ☐	
PO #:	12/28/19 spill date	Rush: 3 day	
Sampler's Name:	Fatima Smith	Due Date:	

SAMPLE RECEIPT — Temp Blank: (Yes) No — Wet Ice: (Yes) No

Temperature (°C):	1.2	Thermometer ID	TN1N007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	29

CC 2/28/20

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS01	S	2/26/20	1504	2.5'	1	X	X	X
FS02		2/26/20	1506					
FS03		2/26/20	1510					
FS04		2/27/20	1032					
FS05			1034					
FS06			1037					
FS07			1040					
FS08			1045					
FS09			1049					
FS10	↓	↓	1202	↓	↓	↓	↓	↓

Work Order Notes

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

Sample Comments

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

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

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Fatima Smith	Anna Byers	2/28/20 0750	2	Anna Byers		2/28/20 0835
3				4			
5				6			

Revised Date101419 Rev. 2019.1

Chain of Custody

Work Order No: 654051

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

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

Work Order Comments

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

Project Name:	Muy Wayno Recycling Facility	Turn Around	
Project Number:	012920007	Routine: ☐	
PO #:	12/28/19 spill date	Rush: 3 day	
Sampler's Name:	Fatima Smith	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	1.2	Thermometer ID	
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	29

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS11	S	2/27/20	1204	2.5'	1	X	X	X
FS12			1352					
FS13			1353					
FS14			1355					
FS15			1408					
FS16			1409					
FS17			1412					
FS18			1450					
FS19			1452					
FS20	↓	↓	1454	↓	↓	↓	↓	↓

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Anna Byers	2/28/20 0750	2 Anna Byers		2/28/20 0835
3			4		
5			6		

Revised Date101419 Rev. 2019.1

Chain of Custody

Work Order No: 654051

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

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

Work Order Comments

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

Project Name:	Muy Wayno Recycling Facility	Turn Around	
Project Number:	012920007	Routine: ☐	
PO #:	12/28/19 spill date	Rush: 3day	
Sampler's Name:	Fatima Smith	Due Date:	

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS22	S	2/27/20	1508	2.5'	1	X	X	X
FS23			1510					
FS24			1523					
FS25			1525					
FS26			1526	↓				
SW01			1244	0-2.5'				
SW02			1325	0-2.5'				
SW03			1331	0-2.5'				
SW04		↓	1335	0-2.5'	↓	↓	↓	↓

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Anna Byers	2/28/20 0750	2 Anna Byers		2/28/20 08:35
3				4		
5				6		

Revised Date101419 Rev. 2019.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 02.28.2020 08.35.00 AM

Work Order #: 654051

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

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**Yes**
#6*Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 02.28.2020

Checklist reviewed by: Jessica Kramer Date: 02.28.2020

Jessica Kramer

Analytical Report 654052

for

LT Environmental, Inc.

Project Manager: Dan Moir

Muy Wayno Recycling Facility

012920007

02-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)

02-MAR-20

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

Reference: XENCO Report No(s): **654052**
Muy Wayno Recycling Facility
Project Address: Eddy County

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 654052. 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. 654052 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Sample Cross Reference 654052

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
FS21	S	02-27-20 15:06	2.5 ft	654052-001

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Muy Wayno Recycling Facility

Project ID: *012920007*
Work Order Number(s): *654052*

Report Date: *02-MAR-20*
Date Received: *02/28/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3118143 BTEX by EPA 8021B

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

Certificate of Analysis Summary 654052

LT Environmental, Inc., Arvada, CO

Project Name: Muy Wayno Recycling Facility

Project Id: 012920007
Contact: Dan Moir
Project Location: Eddy County

Date Received in Lab: Fri Feb-28-20 08:35 am
Report Date: 02-MAR-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	654052-001					
	Field Id:	FS21					
	Depth:	2.5- ft					
	Matrix:	SOIL					
	Sampled:	Feb-27-20 15:06					
BTEX by EPA 8021B	***Extracted:***	Feb-28-20 11:00					
	Analyzed:	Feb-28-20 20:58					
	Units/RL:	mg/kg	RL				
Benzene		<0.00199	0.00199				
Toluene		<0.00199	0.00199				
Ethylbenzene		<0.00199	0.00199				
m,p-Xylenes		<0.00398	0.00398				
o-Xylene		<0.00199	0.00199				
Total Xylenes		<0.00199	0.00199				
Total BTEX		<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	Feb-28-20 17:00					
	Analyzed:	Feb-28-20 20:56					
	Units/RL:	mg/kg	RL				
Chloride		45.5	9.96				
TPH by SW8015 Mod	***Extracted:***	Feb-28-20 19:09					
	Analyzed:	Feb-29-20 07:23					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1				
Diesel Range Organics (DRO)		<50.1	50.1				
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1				
Total GRO-DRO		<50.1	50.1				
Total TPH		<50.1	50.1				

Jessica Kramer
Project Assistant

Certificate of Analytical Results 654052

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS21**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654052-001	Date Collected:	02.27.20 15.06	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**45.5**	9.96	mg/kg	02.28.20 20.56		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 19.09	Basis:	Wet Weight
Seq Number:	3118192				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.29.20 07.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.29.20 07.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.29.20 07.23	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.29.20 07.23	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.29.20 07.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	02.29.20 07.23	
o-Terphenyl	84-15-1	121	%	70-135	02.29.20 07.23	

Certificate of Analytical Results 654052

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**FS21**	Matrix:	Soil	Date Received:	02.28.20 08.35
Lab Sample Id:	654052-001	Date Collected:	02.27.20 15.06	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 11.00	Basis:	Wet Weight
Seq Number:	3118143				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.28.20 20.58	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.28.20 20.58	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.28.20 20.58	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.28.20 20.58	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.28.20 20.58	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.28.20 20.58	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.28.20 20.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	02.28.20 20.58	
1,4-Difluorobenzene	540-36-3	111	%	70-130	02.28.20 20.58	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 654052

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118170 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697767-1-BLK — LCS Sample Id: 7697767-1-BKS — LCSD Sample Id: 7697767-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	251	100	225	90	90-110	11	20	mg/kg	02.28.20 20:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118170 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654052-001 — MS Sample Id: 654052-001 S — MSD Sample Id: 654052-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	45.5	200	258	106	260	107	90-110	1	20	mg/kg	02.28.20 21:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118170 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654164-001 — MS Sample Id: 654164-001 S — MSD Sample Id: 654164-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	216	199	420	103	423	104	90-110	1	20	mg/kg	02.28.20 22:27	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118192 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697771-1-BLK — LCS Sample Id: 7697771-1-BKS — LCSD Sample Id: 7697771-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	885	89	910	91	70-135	3	35	mg/kg	02.29.20 06:24	
Diesel Range Organics (DRO)	<50.0	1000	961	96	987	99	70-135	3	35	mg/kg	02.29.20 06:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		111		113		70-135	%	02.29.20 06:24
o-Terphenyl	108		109		111		70-135	%	02.29.20 06:24

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118192 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697771-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.29.20 06:05	

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

Final 1.000

QC Summary 654052

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3118192 Matrix: Soil Date Prep: 02.28.20
Parent Sample Id: 654051-029 MS Sample Id: 654051-029 S MSD Sample Id: 654051-029 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.5	1010	964	95	906	91	70-135	6	35	mg/kg	03.02.20 12:44	
Diesel Range Organics (DRO)	<50.5	1010	1190	118	1020	102	70-135	15	35	mg/kg	03.02.20 12:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		115		70-135	%	03.02.20 12:44
o-Terphenyl	128		114		70-135	%	03.02.20 12:44

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3118143 Matrix: Solid Date Prep: 02.28.20
MB Sample Id: 7697714-1-BLK LCS Sample Id: 7697714-1-BKS LCSD Sample Id: 7697714-1-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	0.119	119	0.120	120	70-130	1	35	mg/kg	02.28.20 12:08	
Toluene	<0.00200	0.100	0.110	110	0.111	111	70-130	1	35	mg/kg	02.28.20 12:08	
Ethylbenzene	<0.00200	0.100	0.105	105	0.106	106	71-129	1	35	mg/kg	02.28.20 12:08	
m,p-Xylenes	<0.00400	0.200	0.205	103	0.207	104	70-135	1	35	mg/kg	02.28.20 12:08	
o-Xylene	<0.00200	0.100	0.103	103	0.104	104	71-133	1	35	mg/kg	02.28.20 12:08	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	112		111		110		70-130	%	02.28.20 12:08
4-Bromofluorobenzene	90		88		89		70-130	%	02.28.20 12:08

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5030B
Seq Number: 3118143 Matrix: Soil Date Prep: 02.28.20
Parent Sample Id: 654048-001 MS Sample Id: 654048-001 S MSD Sample Id: 654048-001 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	0.125	125	0.126	126	70-130	1	35	mg/kg	02.28.20 12:48	
Toluene	<0.00200	0.100	0.125	125	0.116	116	70-130	7	35	mg/kg	02.28.20 12:48	
Ethylbenzene	<0.00200	0.100	0.119	119	0.108	108	71-129	10	35	mg/kg	02.28.20 12:48	
m,p-Xylenes	<0.00401	0.200	0.231	116	0.210	105	70-135	10	35	mg/kg	02.28.20 12:48	
o-Xylene	<0.00200	0.100	0.115	115	0.107	107	71-133	7	35	mg/kg	02.28.20 12:48	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		109		70-130	%	02.28.20 12:48
4-Bromofluorobenzene	89		91		70-130	%	02.28.20 12:48

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

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

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

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

Final 1.000

XENCO LABORATORIES

Chain of Custody

Work Order No: 654052

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

www.xenco.com Page 1 of 1

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

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project:

Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Muy Wayno Recycling Facility	Turn Around	
Project Number:	012919 012920007	Routine	☐
Project Location	Eddy County	Rush:	3 Day
Sampler's Name:	Fatima Smith	Due Date:	
PO #:	12/28/19 spill date	Quote #:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	1.2	Thermometer ID	T-NM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1

ANALYSIS REQUEST

Lab ID	Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
	FS21	S	2/27/20	1506	2.5'	1	X	X	X	composite

Preservative Codes

MeOH: Me
None: NO
HNO3: HN
H2S04: H2
HCL: HL
NaOH: Na
Zn Acetate+ NaOH: Zn

TAT starts the day recevied by the lab, if received by 4:00pm

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

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Fatima Smith	Anna Byers	2/28/20 0750	2 Anna Byers	[signature]	2/28/20 08:35
3			4		
5			6		

Revised Date 022619 Rev. 2019.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 02.28.2020 08.35.00 AM

Work Order #: 654052

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

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.2
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**Yes**
#6*Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 02.28.2020

Checklist reviewed by: Jessica Kramer Date: 02.28.2020

Jessica Kramer

Analytical Report 654164

for

LT Environmental, Inc.

Project Manager: Dan Moir

Muy Wayno Recycling Facility

012920007

03-MAR-20

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16)
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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)

03-MAR-20

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

Reference: XENCO Report No(s): **654164**
Muy Wayno Recycling Facility
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 654164. 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. 654164 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.
Certified and approved by numerous States and Agencies.
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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Sample Cross Reference 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
PH01	S	02-28-20 09:24	1 ft	654164-001
PH01A	S	02-28-20 09:25	2.5 ft	654164-002
PH02	S	02-28-20 10:06	1 ft	654164-003
PH02A	S	02-28-20 10:07	2.5 ft	654164-004
PH03	S	02-28-20 10:20	1 ft	654164-005
PH03A	S	02-28-20 10:22	2.5 ft	654164-006
SS04	S	02-28-20 10:45	0.5 ft	654164-007

CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Muy Wayno Recycling Facility

Project ID: *012920007*
Work Order Number(s): *654164*

Report Date: *03-MAR-20*
Date Received: *02/28/2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3118153 BTEX by EPA 8021B

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

Certificate of Analysis Summary 654164

LT Environmental, Inc., Arvada, CO

Project Name: Muy Wayno Recycling Facility

Project Id: 012920007
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Feb-28-20 03:20 pm
Report Date: 03-MAR-20
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	654164-001		654164-002		654164-003		654164-004		654164-005		654164-006	
	Field Id:	PH01		PH01A		PH02		PH02A		PH03		PH03A	
	Depth:	1- ft		2.5- ft		1- ft		2.5- ft		1- ft		2.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-28-20 09:24		Feb-28-20 09:25		Feb-28-20 10:06		Feb-28-20 10:07		Feb-28-20 10:20		Feb-28-20 10:22	
BTEX by EPA 8021B	***Extracted:***	Feb-28-20 18:00		Feb-28-20 18:00		Feb-28-20 18:00		Feb-28-20 18:00		Feb-28-20 18:00		Feb-28-20 18:00	
	Analyzed:	Feb-29-20 04:26		Feb-29-20 04:47		Feb-29-20 05:07		Feb-29-20 05:27		Feb-29-20 05:48		Feb-29-20 06:08	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Toluene		<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Ethylbenzene		<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
m,p-Xylenes		<0.00395	0.00395	<0.00399	0.00399	<0.00403	0.00403	<0.00402	0.00402	<0.00399	0.00399	<0.00398	0.00398
o-Xylene		<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Total Xylenes		<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Total BTEX		<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00199	0.00199
Chloride by EPA 300	***Extracted:***	Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00		Feb-28-20 17:00	
	Analyzed:	Feb-28-20 22:21		Feb-28-20 22:38		Feb-28-20 22:44		Feb-28-20 23:01		Feb-28-20 23:06		Feb-28-20 23:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		216	49.6	386	49.9	192	50.4	162	50.3	324	50.1	373	49.8
TPH by SW8015 Mod	***Extracted:***	Feb-28-20 19:09		Feb-28-20 19:09		Feb-28-20 19:09		Feb-28-20 19:09		Feb-28-20 19:09		Feb-28-20 19:09	
	Analyzed:	Feb-29-20 09:41		Feb-29-20 10:01		Feb-29-20 10:01		Feb-29-20 10:21		Feb-29-20 10:21		Feb-29-20 10:40	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.1	50.1	<50.0	50.0	<50.1	50.1	<49.9	49.9	<50.1	50.1	<50.0	50.0
Diesel Range Organics (DRO)		<50.1	50.1	<50.0	50.0	<50.1	50.1	<49.9	49.9	<50.1	50.1	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<50.1	50.1	<50.0	50.0	<50.1	50.1	<49.9	49.9	<50.1	50.1	<50.0	50.0
Total GRO-DRO		<50.1	50.1	<50.0	50.0	<50.1	50.1	<49.9	49.9	<50.1	50.1	<50.0	50.0
Total TPH		<50.1	50.1	<50.0	50.0	<50.1	50.1	<49.9	49.9	<50.1	50.1	<50.0	50.0

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

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 654164

LT Environmental, Inc., Arvada, CO

Project Name: Muy Wayno Recycling Facility

Project Id: 012920007
Contact: Dan Moir
Project Location:

Date Received in Lab: Fri Feb-28-20 03:20 pm
Report Date: 03-MAR-20
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	654164-007					
	Field Id:	SS04					
	Depth:	0.5- ft					
	Matrix:	SOIL					
	Sampled:	Feb-28-20 10:45					
BTEX by EPA 8021B	***Extracted:***	Feb-28-20 18:00					
	Analyzed:	Feb-29-20 06:29					
	Units/RL:	mg/kg	RL				
Benzene		<0.00199	0.00199				
Toluene		<0.00199	0.00199				
Ethylbenzene		<0.00199	0.00199				
m,p-Xylenes		<0.00398	0.00398				
o-Xylene		<0.00199	0.00199				
Total Xylenes		<0.00199	0.00199				
Total BTEX		<0.00199	0.00199				
Chloride by EPA 300	***Extracted:***	Feb-28-20 17:00					
	Analyzed:	Feb-28-20 23:18					
	Units/RL:	mg/kg	RL				
Chloride		4830	49.9				
TPH by SW8015 Mod	***Extracted:***	Feb-28-20 19:09					
	Analyzed:	Feb-29-20 10:40					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0				
Diesel Range Organics (DRO)		<50.0	50.0				
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0				
Total GRO-DRO		<50.0	50.0				
Total TPH		<50.0	50.0				

Jessica Kramer
Project Assistant

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-001	Date Collected:	02.28.20 09.24	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**216**	49.6	mg/kg	02.28.20 22.21		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 19.09	Basis:	Wet Weight
Seq Number:	3118192				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.29.20 09.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.29.20 09.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.29.20 09.41	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.29.20 09.41	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.29.20 09.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	75	%	70-135	02.29.20 09.41	
o-Terphenyl	84-15-1	81	%	70-135	02.29.20 09.41	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**PH01**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-001	Date Collected:	02.28.20 09.24	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 18.00	Basis:	Wet Weight
Seq Number:	3118153				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	02.29.20 04.26	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	02.29.20 04.26	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	02.29.20 04.26	U	1
m,p-Xylenes	179601-23-1	<0.00395	0.00395	mg/kg	02.29.20 04.26	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	02.29.20 04.26	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	02.29.20 04.26	U	1
Total BTEX		<0.00198	0.00198	mg/kg	02.29.20 04.26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	95	%	70-130	02.29.20 04.26	
1,4-Difluorobenzene	540-36-3	111	%	70-130	02.29.20 04.26	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id: **PH01A** Matrix: Soil Date Received:02.28.20 15.20

Lab Sample Id: 654164-002 Date Collected: 02.28.20 09.25 Sample Depth: 2.5 ft

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 02.28.20 17.00 Basis: Wet Weight

Seq Number: 3118170

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**386**	49.9	mg/kg	02.28.20 22.38		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P

Tech: MAB % Moisture:

Analyst: MAB Date Prep: 02.28.20 19.09 Basis: Wet Weight

Seq Number: 3118192

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.29.20 10.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.29.20 10.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.29.20 10.01	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.29.20 10.01	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.29.20 10.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	02.29.20 10.01	
o-Terphenyl	84-15-1	114	%	70-135	02.29.20 10.01	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**PH01A**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-002	Date Collected:	02.28.20 09.25	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 18.00	Basis:	Wet Weight
Seq Number:	3118153				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 04.47	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 04.47	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 04.47	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.29.20 04.47	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 04.47	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 04.47	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 04.47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	93	%	70-130	02.29.20 04.47	
1,4-Difluorobenzene	540-36-3	111	%	70-130	02.29.20 04.47	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-003	Date Collected:	02.28.20 10.06	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**192**	50.4	mg/kg	02.28.20 22.44		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 19.09	Basis:	Wet Weight
Seq Number:	3118192				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.29.20 10.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.29.20 10.01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.29.20 10.01	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.29.20 10.01	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.29.20 10.01	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	72	%	70-135	02.29.20 10.01	
o-Terphenyl	84-15-1	79	%	70-135	02.29.20 10.01	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**PH02**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-003	Date Collected:	02.28.20 10.06	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 18.00	Basis:	Wet Weight
Seq Number:	3118153				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	02.29.20 05.07	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	02.29.20 05.07	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	02.29.20 05.07	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	02.29.20 05.07	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	02.29.20 05.07	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	02.29.20 05.07	U	1
Total BTEX		<0.00202	0.00202	mg/kg	02.29.20 05.07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	02.29.20 05.07	
4-Bromofluorobenzene	460-00-4	94	%	70-130	02.29.20 05.07	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-004	Date Collected:	02.28.20 10.07	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**162**	50.3	mg/kg	02.28.20 23.01		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 19.09	Basis:	Wet Weight
Seq Number:	3118192				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.29.20 10.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	02.29.20 10.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	02.29.20 10.21	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	02.29.20 10.21	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	02.29.20 10.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-135	02.29.20 10.21	
o-Terphenyl	84-15-1	94	%	70-135	02.29.20 10.21	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**PH02A**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-004	Date Collected:	02.28.20 10.07	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 18.00	Basis:	Wet Weight
Seq Number:	3118153				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	02.29.20 05.27	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	02.29.20 05.27	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	02.29.20 05.27	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	02.29.20 05.27	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	02.29.20 05.27	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	02.29.20 05.27	U	1
Total BTEX		<0.00201	0.00201	mg/kg	02.29.20 05.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	92	%	70-130	02.29.20 05.27	
1,4-Difluorobenzene	540-36-3	112	%	70-130	02.29.20 05.27	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-005	Date Collected:	02.28.20 10.20	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**324**	50.1	mg/kg	02.28.20 23.06		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 19.09	Basis:	Wet Weight
Seq Number:	3118192				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	02.29.20 10.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	02.29.20 10.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	02.29.20 10.21	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	02.29.20 10.21	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	02.29.20 10.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	02.29.20 10.21	
o-Terphenyl	84-15-1	100	%	70-135	02.29.20 10.21	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**PH03**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-005	Date Collected:	02.28.20 10.20	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 18.00	Basis:	Wet Weight
Seq Number:	3118153				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	02.29.20 05.48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	02.29.20 05.48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	02.29.20 05.48	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	02.29.20 05.48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	02.29.20 05.48	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	02.29.20 05.48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	02.29.20 05.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	94	%	70-130	02.29.20 05.48	
1,4-Difluorobenzene	540-36-3	113	%	70-130	02.29.20 05.48	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-006	Date Collected:	02.28.20 10.22	Sample Depth:	2.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**373**	49.8	mg/kg	02.28.20 23.12		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 19.09	Basis:	Wet Weight
Seq Number:	3118192				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.29.20 10.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.29.20 10.40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.29.20 10.40	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.29.20 10.40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.29.20 10.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-135	02.29.20 10.40	
o-Terphenyl	84-15-1	107	%	70-135	02.29.20 10.40	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**PH03A**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-006	Date Collected:	02.28.20 10.22	Sample Depth:	2.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 18.00	Basis:	Wet Weight
Seq Number:	3118153				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.29.20 06.08	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.29.20 06.08	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.29.20 06.08	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.29.20 06.08	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.29.20 06.08	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.29.20 06.08	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.29.20 06.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	02.29.20 06.08	
4-Bromofluorobenzene	460-00-4	90	%	70-130	02.29.20 06.08	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-007	Date Collected:	02.28.20 10.45	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 17.00	Basis:	Wet Weight
Seq Number:	3118170				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4830**	49.9	mg/kg	02.28.20 23.18		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 19.09	Basis:	Wet Weight
Seq Number:	3118192				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.29.20 10.40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	02.29.20 10.40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	02.29.20 10.40	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	02.29.20 10.40	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	02.29.20 10.40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	02.29.20 10.40	
o-Terphenyl	84-15-1	112	%	70-135	02.29.20 10.40	

Certificate of Analytical Results 654164

LT Environmental, Inc., Arvada, CO

Muy Wayno Recycling Facility

Sample Id:	**SS04**	Matrix:	Soil	Date Received:	02.28.20 15.20
Lab Sample Id:	654164-007	Date Collected:	02.28.20 10.45	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	02.28.20 18.00	Basis:	Wet Weight
Seq Number:	3118153				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	02.29.20 06.29	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	02.29.20 06.29	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	02.29.20 06.29	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	02.29.20 06.29	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	02.29.20 06.29	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	02.29.20 06.29	U	1
Total BTEX		<0.00199	0.00199	mg/kg	02.29.20 06.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	88	%	70-130	02.29.20 06.29	
1,4-Difluorobenzene	540-36-3	106	%	70-130	02.29.20 06.29	

Flagging Criteria

X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.

B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.

D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.

E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.

F RPD exceeded lab control limits.

J The target analyte was positively identified below the quantitation limit and above the detection limit.

U Analyte was not detected.

L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.

H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.

K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 654164

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118170 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697767-1-BLK — LCS Sample Id: 7697767-1-BKS — LCSD Sample Id: 7697767-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	251	100	225	90	90-110	11	20	mg/kg	02.28.20 20:45	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118170 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654052-001 — MS Sample Id: 654052-001 S — MSD Sample Id: 654052-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	45.5	200	258	106	260	107	90-110	1	20	mg/kg	02.28.20 21:02	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3118170 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654164-001 — MS Sample Id: 654164-001 S — MSD Sample Id: 654164-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	216	199	420	103	423	104	90-110	1	20	mg/kg	02.28.20 22:27	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118192 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697771-1-BLK — LCS Sample Id: 7697771-1-BKS — LCSD Sample Id: 7697771-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	885	89	910	91	70-135	3	35	mg/kg	02.29.20 06:24	
Diesel Range Organics (DRO)	<50.0	1000	961	96	987	99	70-135	3	35	mg/kg	02.29.20 06:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		111		113		70-135	%	02.29.20 06:24
o-Terphenyl	108		109		111		70-135	%	02.29.20 06:24

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118192 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697771-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	02.29.20 06:05	

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

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

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

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

Final 1.000

QC Summary 654164

LT Environmental, Inc.

Muy Wayno Recycling Facility

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3118192 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654051-029 — MS Sample Id: 654051-029 S — MSD Sample Id: 654051-029 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.5	1010	964	95	906	91	70-135	6	35	mg/kg	03.02.20 12:44	
Diesel Range Organics (DRO)	<50.5	1010	1190	118	1020	102	70-135	15	35	mg/kg	03.02.20 12:44	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	115		115		70-135	%	03.02.20 12:44
o-Terphenyl	128		114		70-135	%	03.02.20 12:44

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118153 — Matrix: Solid — Date Prep: 02.28.20
MB Sample Id: 7697768-1-BLK — LCS Sample Id: 7697768-1-BKS — LCSD Sample Id: 7697768-1-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	0.119	119	0.116	116	70-130	3	35	mg/kg	02.28.20 22:19	
Toluene	<0.00200	0.100	0.108	108	0.106	106	70-130	2	35	mg/kg	02.28.20 22:19	
Ethylbenzene	<0.00200	0.100	0.103	103	0.101	101	71-129	2	35	mg/kg	02.28.20 22:19	
m,p-Xylenes	<0.00400	0.200	0.201	101	0.198	99	70-135	2	35	mg/kg	02.28.20 22:19	
o-Xylene	<0.00200	0.100	0.103	103	0.101	101	71-133	2	35	mg/kg	02.28.20 22:19	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	108		111		110		70-130	%	02.28.20 22:19
4-Bromofluorobenzene	92		88		88		70-130	%	02.28.20 22:19

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3118153 — Matrix: Soil — Date Prep: 02.28.20
Parent Sample Id: 654051-024 — MS Sample Id: 654051-024 S — MSD Sample Id: 654051-024 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.113	114	0.104	104	70-130	8	35	mg/kg	02.28.20 23:00	
Toluene	<0.00199	0.0994	0.104	105	0.0941	94	70-130	10	35	mg/kg	02.28.20 23:00	
Ethylbenzene	<0.00199	0.0994	0.0990	100	0.0878	88	71-129	12	35	mg/kg	02.28.20 23:00	
m,p-Xylenes	<0.00398	0.199	0.192	96	0.170	85	70-135	12	35	mg/kg	02.28.20 23:00	
o-Xylene	<0.00199	0.0994	0.0973	98	0.0873	87	71-133	11	35	mg/kg	02.28.20 23:00	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	110		109		70-130	%	02.28.20 23:00
4-Bromofluorobenzene	92		89		70-130	%	02.28.20 23:00

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

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Work Order No: 654164

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

Work Order Comments

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

Project Name:	Muy Wayno Recycling Facility	Turn Around	
Project Number:	012920007	Routine: ☐	
PO #:	12/28/19 spill date	Rush: 3 day	
Sampler's Name:	Fatima Smith	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)
Temperature (°C):	1.6	Thermometer ID	
Received Intact:	(Yes) No	T-NM-007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	7

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
PH01	S	2/28/20	0924	1'	1	X	X	X
PH01A	S		0925	2.5'				
PH02	S		1006	1'				
PH02A	S		1007	2.5'				
PH03	S		1020	1'				
PH03A	S		1022	2.5'				
SS04	S	↓	1045	0.5'	↓	↓	↓	↓

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

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

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		2/28/20 15:20	2		
3			4		
5			6		

Revised Date 101419 Rev. 2019.1

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 02/28/2020 03:20:00 PM

Work Order #: 654164

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

Temperature Measuring device used : T-NM-007

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.6
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**Yes**
#5 Custody Seals intact on sample bottles?	**Yes**
#6*Custody Seals Signed and dated?	**Yes**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 02/28/2020

Checklist reviewed by: Jessica Kramer Date: 02/28/2020

Jessica Kramer

ATTACHMENT 3: LITHOLOGIC / SOIL SAMPLING LOG

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220
Compliance · Engineering · Remediation

Identifier:	Date:
PH01	02/28/20
Project Name: Muy Wayno Recycling Facility	RP Number: Not assigned
Logged By: Fatima Smith	Method:
Field Screening: Chloride + PID	Hole Diameter:
	Total Depth: 2.5'

LITHOLOGIC / SOIL SAMPLING LOG

Lat/Long:

Comments:

	Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
0924	D	312	0.0	N		1	1'	S	Caliche, tan-off white, moderately consolidated, no odor
0925	D	<173	0.1	N		2	2.5'	↓	Same as above
						3			
						4			
						6			
						8			
						10			
						12			
						14			
						16			
						18			
						20			
						12			

LT Environmental, Inc.
508 West Stevens Street
Carlsbad, New Mexico 88220
Compliance · Engineering · Remediation

Identifier:	Date:
PH02	02/28/20
Project Name: Muy Wayno Recycling Facility	**RP Number:** Not Assigned
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Fatima Smith / Method:
Lat/Long: / Field Screening: Chloride + PID	Hole Diameter: / Total Depth: 2.5'
Comments:	

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
D (1006)	274	0.1	N		1	1'	S	Caliche, tan-off white, no odor, moderately consolidated
D (1007)	274	0.3	N		2 3	2.5'	S	same as above
					4 6 8 10 12 14 16 18 20 12			

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Identifier: ~~PH04~~ EN PH03	Date: 02/28/20
Project Name: Muy Waymo Recycling Facility	RP Number: Not Assigned
Logged By: Fatima Smith	Method:
Hole Diameter:	Total Depth: 2.5'
Lat/Long:	Field Screening: Chloride + PID

Comments:

LITHOLOGIC / SOIL SAMPLING LOG

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth (ft. bgs.)	Sample Depth	Soil/Rock Type	Lithology/Remarks
1020 D	392	0.3	N		1	1'	S	caliche, tan - off white, no odor moderately consolidated
1022 D	347	0.3	N		2 3	2.5'	S	same as above
					4 6 8 10 12 14 16 18 20 12			