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	
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 32.06479 Longitude -103.91825
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Ross Ranch 6	Site Type Battery
Date Release Discovered 11-28-2020	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
O	6	26S	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) 17.41	Volume Recovered (bbls) 10.95
☒ Produced Water	Volume Released (bbls) 221.05	Volume Recovered (bbls) 139.05
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: The supply gas regulator for the heater treater pneumatic dumps malfunctioned. The vessel ran over the top and out of the PRV. A third-party contractor has been retained for remediation purposes.

State of New Mexico
Oil Conservation Division

Incident ID	
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? A release equal to or greater than 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 to 'Bratcher, Mike, EMNRD'; 'Hamlet, Robert, EMNRD'; 'Venegas, Victoria, EMNRD'; 'Griswold, Jim, EMNRD'; 'BLM_NM_CFO_Spill@blm.gov'; 'Morgan, Crisha A' on Saturday, November 28, 2020 2:54 PM via email.

Initial Response

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

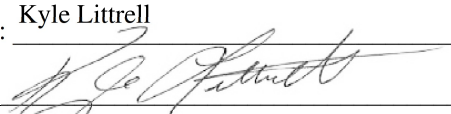
- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have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

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

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: 12-10-20

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

OCD Only

Received by: _____ Date: _____

Location:	Ross Ranch 6 Battery	
Spill Date:	11/28/2020	

Area 1		
Approximate Area =	17548.00	sq. ft.
Average Saturation (or depth) of spill =	0.13	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.36	bbls
Total Produced Water =	4.53	bbls

Area 2		
Approximate Area =	6065.00	sq. ft.
Average Saturation (or depth) of spill =	0.50	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	0.49	bbls
Total Produced Water =	6.26	bbls

Area 3		
Approximate Area =	6901.00	sq. ft.
Average Saturation (or depth) of spill =	5.00	inches
Average Porosity Factor =	0.15	
VOLUME OF LEAK		
Total Crude Oil =	16.56	bbls
Total Produced Water =	210.26	bbls

TOTAL VOLUME OF LEAK		
Total Crude Oil =	**17.41**	**bbls**
Total Produced Water =	**221.05**	**bbls**
TOTAL VOLUME RECOVERED		
Total Crude Oil =	**10.95**	**bbls**
Total Produced Water =	**139.05**	**bbls**

Incident ID	NAPP2034638293
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: Environmental Manager

Signature: [signature] Date: 5-25-2021

email: Kyle.Littrell@exxonmobil.com Telephone: 432-221-7331

OCD Only

Received by: Robert Hamlet Date: 9/8/2021

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

Signature: Robert Hamlet Date: 9/8/2021

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

May 25, 2020

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

Re: Remediation Work Plan
Ross Ranch 6
Incident Number NAPP2034638293
Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Remediation Work Plan detailing site assessment, soil sampling activities, and preliminary remediation efforts completed to date and proposing additional remediation and soil sampling activities at the Ross Ranch 6 (Site) in Unit O, Section 6, Township 26 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the remediation and soil sampling activities completed to date was to address impacts to soil resulting from a release of crude oil and produced water at the Site, by safely excavating immediate impacts to soil. Based on field observations, field screening activities, and laboratory analytical results from soil sampling activities, XTO is submitting this Remediation Work Plan, describing soil sampling and initial response efforts that have occurred and proposing additional remediation activities.

RELEASE BACKGROUND

On November 28, 2020, the supply gas regulator for the heater treater pneumatic dumps malfunctioned and resulted in the release of approximately 221.05 barrels (bbls) of produced water and 17.41 bbls of crude oil onto the caliche well pad and adjacent pasture. The release traveled approximately 4,395 feet west into the pasture through a drainage and caused an overspray immediately west of the well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids, of which approximately 139.05 bbls of produced water and 10.95 bbls of crude oil were recovered. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on November 28, 2020 and with a subsequent Release Notification and Corrective Action Form C-141 (Form C-141) on December 10, 2020. The release was assigned Incident Number NAPP2034638293.

SITE CHARACTERIZATION

WSP 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 nearby groundwater well data. The nearest permitted water wells with depth to water data are New Mexico Office of the State Engineer (NMOSE) well C-01360, located approximately 0.56 miles east of the Site and well C-01361, located approximately 0.70 miles east of the Site. Well C-01360 was measured in 1983 has a reported depth to groundwater of 186 feet bgs; well C-01361 was measured in 2003 has a reported depth to groundwater of 180 feet bgs (Attachment 1). Depth to water data for wells C-01360 and C-01361 was referenced for groundwater determination for Incident Number NRM2009458386, which was located on the same Ross Ranch 6 pad. The wells were approximately 0.55 miles and 0.66 miles east of the release and closure of the release, including site characterization, was approved by the NMOCD on September 3, 2020.

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, and 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 in a medium-potential karst area. Potential receptors identified during Site Characterization are displayed on Figure 1.

WATERCOURSE SURVEY

On March 25, 2021, WSP personnel conducted a field investigation to confirm the presence of a potential significant watercourse identified in a desktop survey using the United States Fish and Wildlife Service (USFWS) online database, National Wetland Inventory (Wetland Mapper). Wetland Mapper is often used for initial evaluation of significant watercourses in response to reportable releases as required in the site characterization defined in 19.15.29.11.A(4) of the New Mexico Administrative Code (NMAC).

SURVEY PHOTO 1: VIEW SOUTHEAST SHOWING STAINED SOIL IN AN EROSIONAL DRAINAGE.

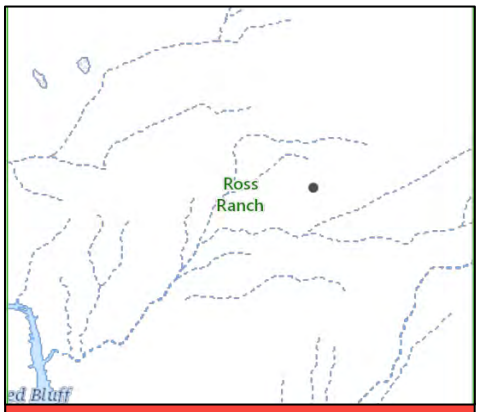


DIAGRAM 2: VIEW OF THE SITE LOCATION (GRAY CIRCLE) UTILIZING THE CURRENT USGS 7.5 MINUTE QUADRANGLE HYDROLOGY BASE LAYER MAP. REFERENCE:

HTTPS://VIEWER.NATIONALMAP.GOV/BASIC/#/NHD

Field verification is sometimes necessary to

measure the distance of the feature from the release extent and to confirm the feature modeled by the USFWS complies with the definition of a significant watercourse per Subsection P of 19.15.17.7 NMAC. Specifically, the definition in Subsection P of 19.15.17.7 NMAC requires a defined bed and bank and either named or identified by a dashed blue line on USGS 7.5-minute quadrangle map or the next lower order tributary with a defined bed and bank of such watercourse. Prior to the field investigation, WSP determined the surface feature did not present the preliminary requirements of a significant watercourse such that it was not identified by a dashed blue line on the current USGS 7.5-minute quadrangle map and did not reveal aerial properties of a next lower order tributary connecting to a significant watercourse.

SURVEY PHOTO 2: VIEW NORTHEAST OF AN EROSIONAL RUT WITH SOIL STAINING FROM THE RELEASE.

No bed or bank was identified during the visual field survey of the watercourse. Only erosional paths or swales and ruts aligned with the topographic gradient were visible (Survey Photo 1 and survey Photo 2). The drainage did not appear to connect to a larger watercourse. There was no evidence of fluvial deposition inside the erosional features, and they did not connect to other watercourses. More detailed results and photographic evidence are provided in Figure 2. The closest feature with a defined bed and bank appears to be approximately 1,892 feet to the north (shown on the USGS 7.5-minute quadrangle map). Based on the observations presented, there are no significant watercourses located within 300 feet of the release extent per the definition of a significant watercourse in Subsection P of 19.15.17.7 NMAC. Instead, an erosional channel has formed by drainage of water during storm events. A segment of the erosional channel follows a pre-existing soil disturbance path from installation of a subsurface Chevron water

SURVEY PHOTO 3: VIEW EAST SHOWING THE FARTHEST EXTENT OF SOIL STAINING FROM THE RELEASE (OVER ROW). NO BED OR BANK IS EVIDENT.

SURVEY PHOTO 4: VIEW SOUTHWEST SHOWING THE END OF THE DRAINAGE FEATURE SPLAYING OUT ALONG THE DESERT FLOOR. NO BED OR BANK IS EVIDENT.

pipeline, rather than a feature that complies with the definition of a significant watercourse per Subsection P of 19.15.17.7 NMAC. The faint conduit ultimately splays out along the desert floor without connecting to any other features (Survey Photo 4). The survey tract associated with the feature and additional survey photos are presented on Figure 2. The findings of the field survey indicate there is no significant watercourse within 300 feet of the Site.

CLOSURE CRITERIA

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

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

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

INITIAL SITE ASSESSMENT ACTIVITIES

On December 4, 2020, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP reviewed and verified the incident description (release source and release location) with visual soil impacts and confirmed that the release impacted the southwest corner of the caliche well pad, the pasture area immediately adjacent to the well pad, and the erosional drainage west of the Site. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 3A and Figure 3B.

DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

Between December 23, 2020 and January 11, 2021, WSP personnel were at the Site to conduct delineation activities. WSP utilized a Shaw Tool, Ltd Portable Core Drill to advance twelve coreholes (CH01 through CH12) within and around the release extent to define the horizontal and vertical extent of impacted soil. Coreholes CH01 through CH05 were advanced in the pasture area west of the pad to assess the impacted soil within the erosional drainage. Coreholes CH06 through CH12 were advanced within and around the release area on the well pad and in the overspray area immediately west of the pad. The coreholes were advanced to depths ranging from 4 feet to 8.5 feet bgs. Soil from the coreholes was field screened, at minimum, every 2-foot

interval for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips. Field screening results and observations for each corehole were recorded on lithologic/soil sampling logs which are included in Attachment 2. The corehole locations are presented on Figures 3A and 3B. Photographic documentation from core drilling activities is included in Attachment 3.

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

Laboratory analytical results for on pad delineation soil samples collected from coreholes CH06 through CH09, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria.

Laboratory analytical results for off pad delineation soil samples collected from coreholes CH10 through CH12, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the reclamation standard.

Laboratory analytical results for the delineation soil samples collected in the drainage from coreholes CH01 through CH05 indicated that BTEX, TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations exceeded the reclamation standard for TPH and chloride in the top four feet of the subsurface. Laboratory analytical results for the delineation samples collected at subsequent depths provided vertical delineation of the impacted soil and indicated that impacts exceeding Table 1 Closure Criteria in the drainage did not extend deeper than 4 feet bgs. The laboratory analytical results are summarized on the attached Table 1. The complete laboratory analytical reports are included as Attachment 4.

INITIAL REMEDIATION EFFORTS

From April 11, 2021 to April 22, 2021, WSP personnel were onsite to oversee initial excavation activities to remove the top 1-foot of impacted soil within the drainage utilizing heavy equipment and a hydrovac. The excavation area encompassed the pasture release area within the erosional drainage feature, with the exception of areas that were in close proximity to active third-party subsurface pipelines. XTO and WSP are currently coordinating third-party representatives to conduct oversight for remediation activities within or around their respective pipelines. A total of 1,000 cubic yards of impacted soil were removed during initial excavation activities. The

impacted soil was transported and properly disposed of at a R360 Facility under XTO approved manifests. Photographic documentation from excavation activities is included in Attachment 3.

REMEDIATION WORK PLAN

Based on laboratory analytical results for the delineation samples from coreholes CH01 through CH05, additional excavation is required in the pasture release area within the drainage. The proposed excavation will extend until concentrations of TPH and chloride are compliant with the reclamation standard and are not anticipated to extend deeper than 4 feet bgs. Excavation activities will be performed utilizing heavy equipment and hydrovac. Following removal of impacted soil, WSP proposes collecting 5-point composite soil samples at least every 500 square feet from the sidewalls and floor of the excavation to confirm that impacted soil is removed to below the reclamation standard. The pasture excavation will be backfilled with locally procured topsoil and recontoured to match pre-existing conditions. Remediation efforts around and within areas containing subsurface pipelines will follow XTO and/or third-party operator safety policies.

Based on laboratory analytical results for delineation samples from coreholes CH06 through CH12, no additional remediation efforts are required on pad or in the pasture area affected by overspray west of the pad. However, surface scraping will be conducted to remove minor surficial staining.

PROPOSED SCHEDULE

XTO will begin the additional proposed remediation activities within 90 days of the date of approval of this work plan by NMOCD.

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

Kind regards,

Fatima Smith
Associate Consultant, Geologist

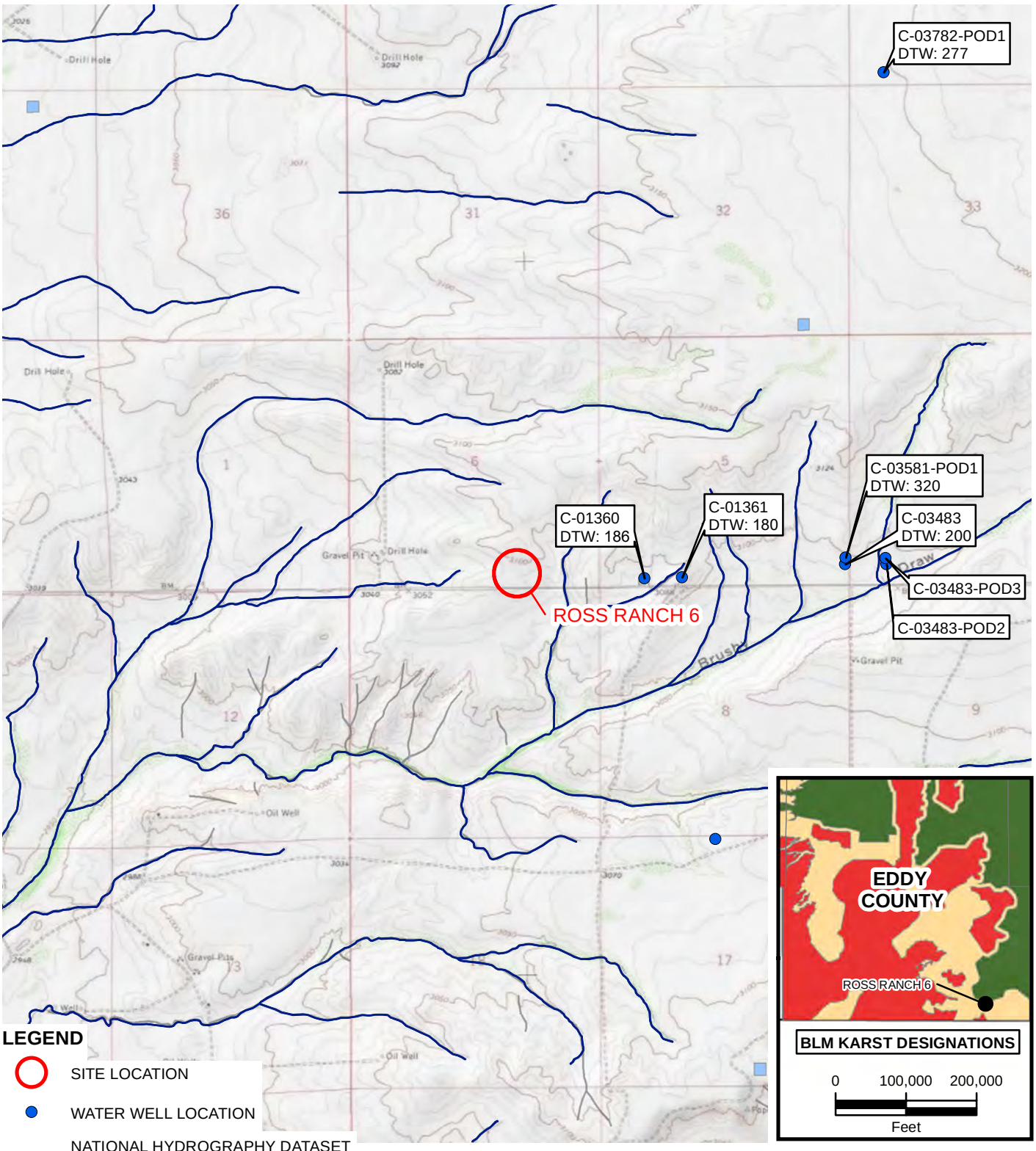
Ashley L. Ager, P.G.
Assistant Vice President, Geologist

cc: Kyle Littrell, XTO
Bureau of Land Management

Attachments:

Figure 1	Site Location Map
Figure 2	Watercourse Survey
Figure 3A/3B	Delineation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Referenced Well Records
Attachment 2	Lithologic/Soil Sampling Logs
Attachment 3	Photographic Log
Attachment 4	Laboratory Analytical Reports

FIGURES



NOTE: INCIDENT NUMBER NAPP2034638293
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
ROSS RANCH 6
UNIT O SEC 6 T26S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920159_ROSS RANCH 6 FEDERAL 001H\012920159_FIG01_SL_RECEPTOR_2021.mxd

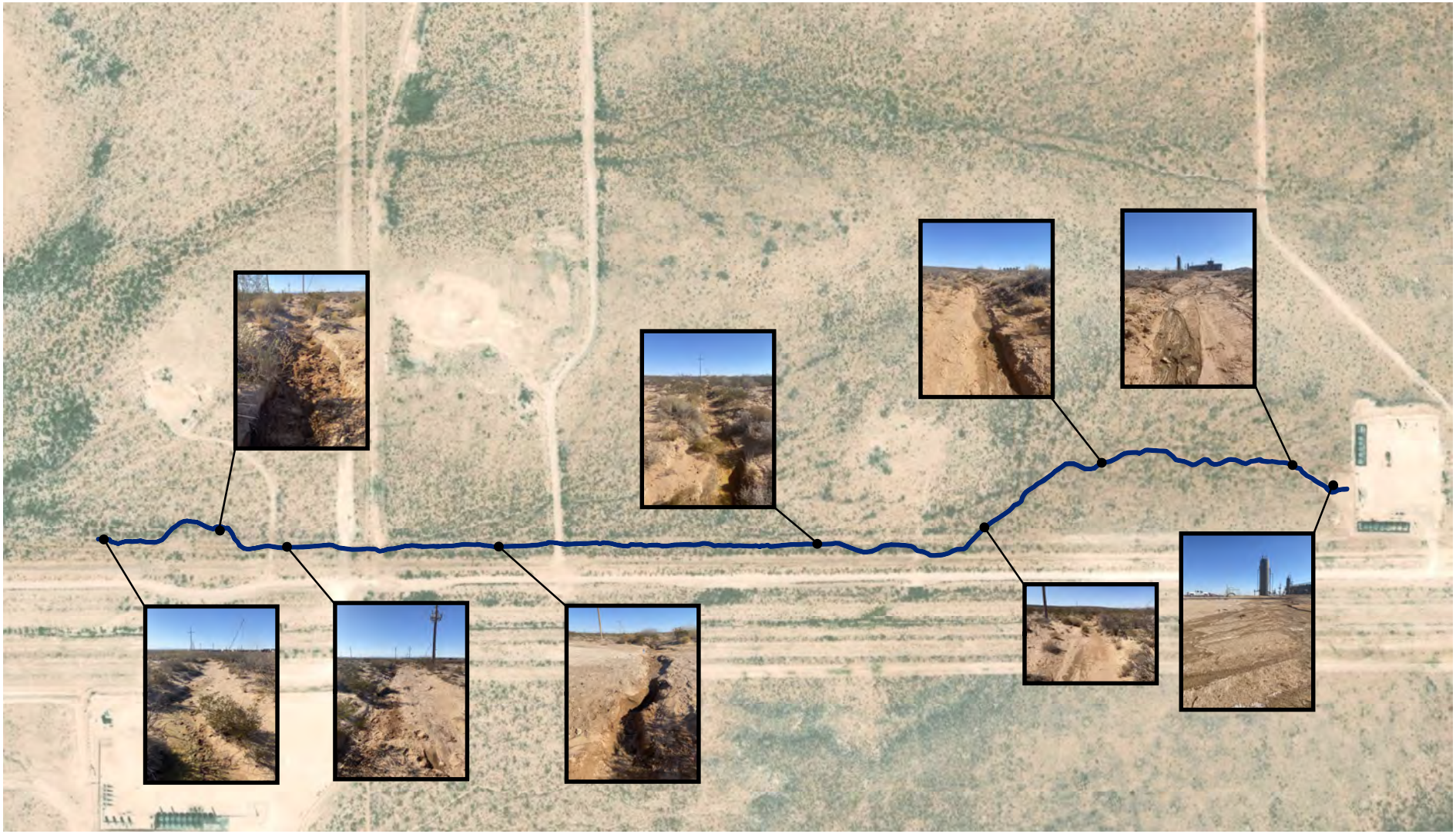


IMAGE COURTESY OF ESRI

LEGEND

WATERCOURSE SURVEY TRACT

0 500 1,000

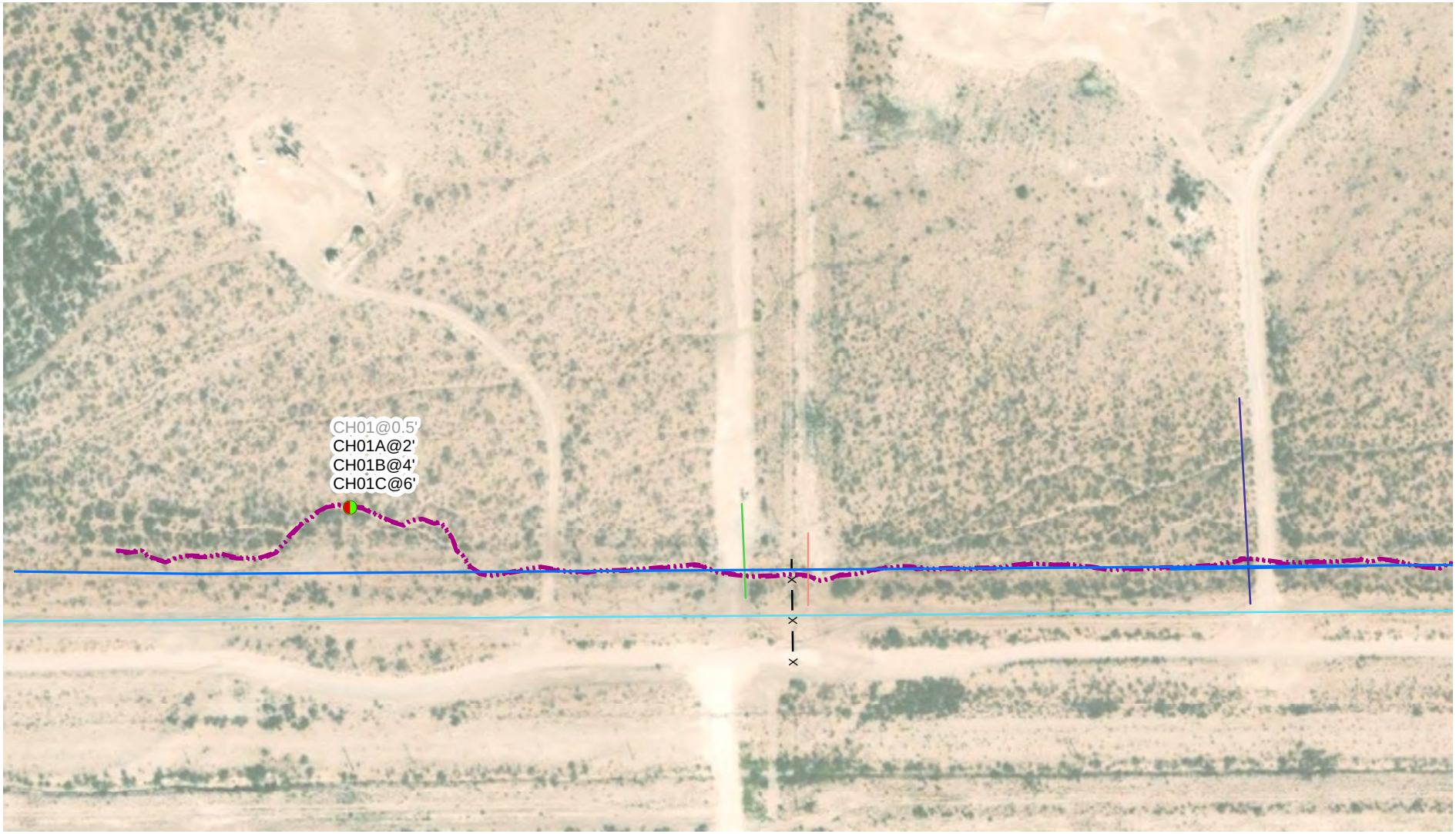
Feet

N

FIGURE 2
WATERCOURSE SURVEY
ROSS RANCH 6
UNIT O SEC 6 T26S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

NOTE: INCIDENT NUMBER NAPP2034638293

P:\XTO Energy\GIS\MXD\012920159_ROSS RANCH 6 FEDERAL 001H\012920159_FIG02_WATERCOURSE SURVEY_2021.mxd



LEGEND

- RELEASE LOCATION
- DELINEATION COREHOLE WITH SAMPLE CONCENTRATIONS BOTH EXCEEDING AND MEETING APPLICABLE CLOSURE CRITERIA
- DELINEATION COREHOLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- GAS LINE, ANADARKO PIPELINE
- GAS LINE, DELAWARE G&P PIPELINE
- GAS LINE, MEWBOURNE
- GAS LINE, SUBSURFACE TRANSFER
- x — x OTHER, FENCE
- WATER LINE, CHEVRON
- RELEASE EXTENT

NOTE: INCIDENT NUMBER NAPP2034638293
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

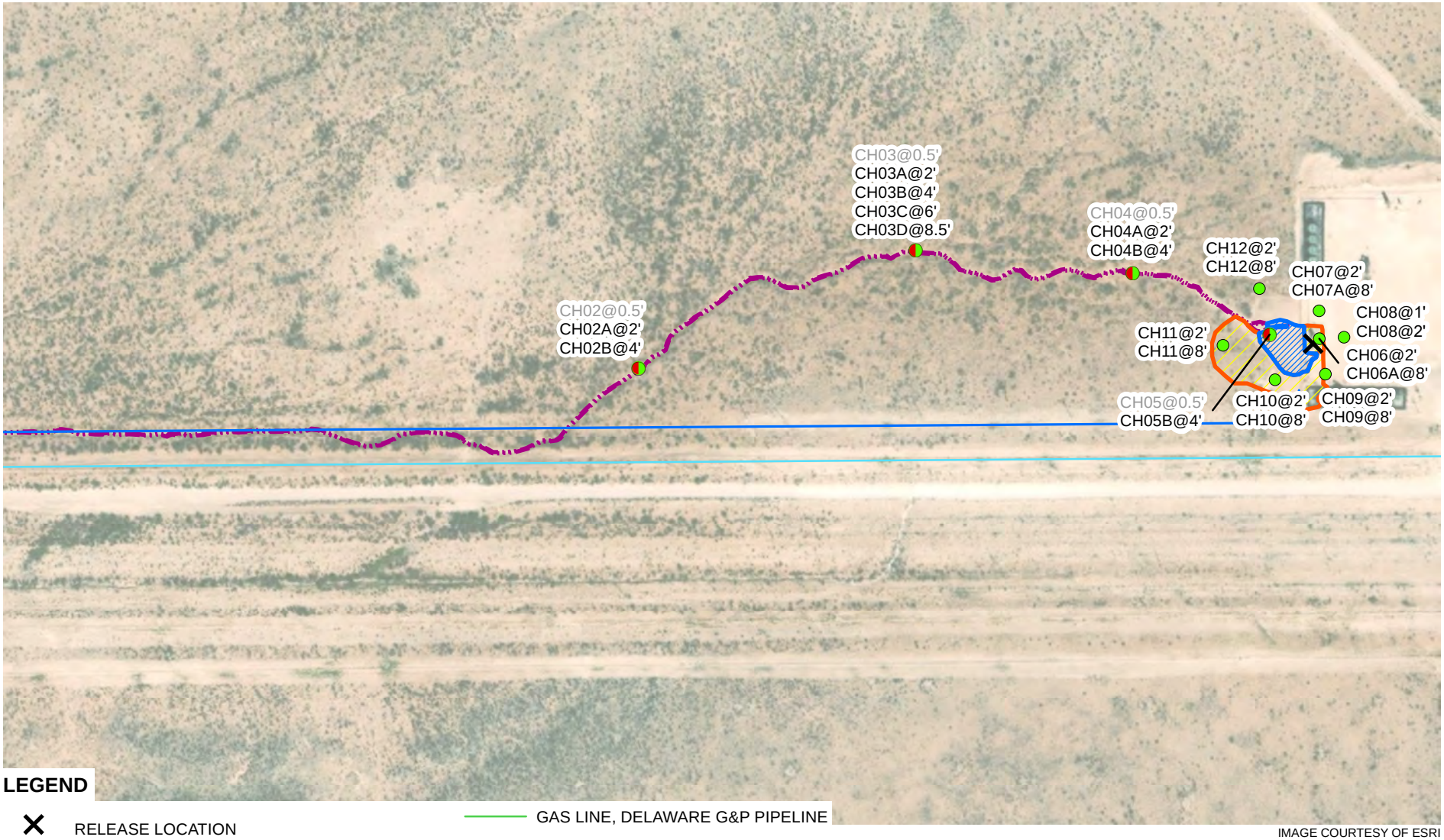
IMAGE COURTESY OF ESRI

0 200 400
Feet

N

FIGURE 3A
DELINEATION SOIL SAMPLE LOCATIONS
ROSS RANCH 6
UNIT O SEC 6 T26S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920159_ROSS RANCH 6 FEDERAL 001H\012920159_FIG03A_DELINEATION_2021_WEST.mxd



LEGEND

- RELEASE LOCATION
- DELINEATION COREHOLE WITH SAMPLE CONCENTRATIONS BOTH EXCEEDING AND MEETING APPLICABLE CLOSURE CRITERIA
- DELINEATION COREHOLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- GAS LINE, ANADARKO PIPELINE
- GAS LINE, DELAWARE G&P PIPELINE
- GAS LINE, MEWBOURNE
- GAS LINE, SUBSURFACE TRANSFER
- OTHER, FENCE
- WATER LINE, CHEVRON
- HEAVY SPRAY ACCUMULATION TO APPROXIMATELY 0.5 INCHES DEPTH
- MIST SPRAY ACCUMULATION TO APPROXIMATELY 0.125 INCHES DEPTH
- RELEASE EXTENT

NOTE: INCIDENT NUMBER NAPP2034638293
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

IMAGE COURTESY OF ESRI

0 260 520
Feet

N

FIGURE 3B
DELINEATION SOIL SAMPLE LOCATIONS
ROSS RANCH 6
UNIT O SEC 6 T26S R30E
EDDY COUNTY, NEW MEXICO
XTO ENERGY, INC.

P:\XTO Energy\GIS\MXD\012920159_ROSS RANCH 6 FEDERAL 001H\012920159_FIG03B_DELINEATION_2021_EAST.mxd

TABLES

Table 1

Soil Analytical Results
Ross Ranch 6
Incident Number NAPP2034638293
XTO Energy, Inc.
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Samples										
CH01	12/23/2020	0.5	<0.501	**179**	317	4,700	168	**5,020**	**5,190**	26.4*
CH01A	12/23/2020	2	<0.00201	0.0240	117	446	<50.2	563	563	<10.1*
CH01B	12/23/2020	4	<0.00199	0.142	<49.9	<49.9	<49.9	<49.9	<49.9	<9.94
CH01C	12/23/2020	6	<0.00202	0.104	<49.9	<49.9	<49.9	<49.9	<49.9	13.8
CH02	12/23/2020	0.5	<0.0504	27.0	262	4,290	333	**4,550**	**4,890**	1,470*
CH02A	12/23/2020	2	<0.00198	0.0231	<50.3	200	55.7	200	256	305*
CH02B	12/23/2020	4	<0.00200	<0.00200	<50.3	292	62.8	292	355	59.0
CH03	12/23/2020	0.5	<0.0996	6.16	371	4,520	136	**4,890**	**5,030**	1,510*
CH03A	12/23/2020	2	<0.00200	0.0869	<49.9	96.5	<49.9	96.5	96.5	696*
CH03B	12/23/2020	4	<0.00200	<0.00200	<49.8	94.6	<49.8	94.6	94.6	2,860
CH03C	12/23/2020	6	<0.00200	<0.00200	<49.8	84.4	73.3	84.4	158	1,160
CH03D	12/23/2020	8.5	<0.00202	<0.00202	<49.8	94.3	<49.8	94.3	94.3	49.3
CH04	12/24/2020	0.5	<0.0998	**186**	381	4,850	761	**5,230**	**5,990**	6,070*
CH04A	12/24/2020	2	<0.00199	0.0657	<50.2	96.8	<50.2	96.8	96.8	1,570*
CH04B	12/24/2020	4	<0.00200	0.692	<50.1	81.2	<50.1	81.2	81.2	349
CH05	12/24/2020	0.5	<0.0992	**51.1**	171	4,980	<50.1	**5,150**	**5,150**	465*
CH05A	12/24/2020	2	<0.000497	0.648	<49.8	81.8	<49.8	81.8	81.8	849*
CH05B	12/24/2020	4	<0.00200	<0.00200	<50.0	81.7	<50.0	81.7	81.7	331
CH06	01/08/2021	2	<0.00199	0.0158	<50.3	<50.3	<50.3	<50.3	<50.3	1,330
CH06A	01/08/2021	8	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	448

Table 1

Soil Analytical Results
Ross Ranch 6
Incident Number NAPP2034638293
XTO Energy, Inc.
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
CH07	01/08/2021	2	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	113
CH07A	01/08/2021	8	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	51.0
CH08	01/11/2021	1	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	315
CH08A	01/11/2021	2	<0.00199	<0.00199	<50.1	<50.1	<50.1	<50.1	<50.1	105
CH09	01/11/2021	2	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	125
CH09A	01/11/2021	8	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	26.5
CH10	01/11/2021	2	<0.00198	<0.00198	<50.2	<50.2	<50.2	<50.2	<50.2	25.1
CH10A	01/11/2021	8	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	96.3
CH11	01/11/2021	2	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	17.1
CH11A	01/11/2021	8	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	146
CH12	01/11/2021	2	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	11.6
CH12A	01/11/2021	8	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	83.5

Notes:
ft - feet/foot
mg/kg - milligrams per kilograms
BTEX - benzene, toluene, ethylbenzene, and total xylenes
TPH - total petroleum hydrocarbons
DRO - diesel range organics
GRO - gasoline range organics
ORO - oil range organics
ORO - oil range organics
NMOCD - New Mexico Oil Conservation Division
NMAC - New Mexico Administrative Code
< - indicates result is less than the stated laboratory method practical quantitation limit
NE - Not Established
BOLD - indicates results exceed the higher of the background sample result or applicable regulatory standard
Greyed data represents samples that were excavated
* - indicates sample was collected in area to be reclaimed after remediation is complete;
closure criteria in the top 4 feet of soil is 100 mg/kg for TPH and 600 mg/kg for chloride.

ATTACHMENT 1: REFERENCED WELL RECORDS

FE-1 State of New Mexico
State Engineer

WELL SCHEDULE

Source of data: Obser ☐ Owner ☐ Other log & declin.
Date November 20 1953 Record by J.C. Yates

LOCATION: County Eddy Map 119.3.3

OWNER El Paso Natural Gas Co.

DRILLER Folk Drilling Co. Completed May 15 1952
Bk. 3 pg. 26

TOPO SITUATION _____ SEO Elev 3091.7

DEPTH 770 ft ☒ Rept ☐ Meas Use Industrial

CASING 10 3/4 in to 765 ft Log by Owner

PUMP: Type turbine Make Peerless #10

(Ser.no)/model 55598 Size of dischg 6 (?) in.

PRIME MOVER: Make Allis Chalmers B-125 HP 12.8

Ser.no. DU 78871 B Power (Fuel) Nat. gas

PUMP DRIVE: ☒ Gear Head ☐ Belt Head ☐ Pump Jack

Make _____ Ser.no _____ ☐ VHS

WATER LEVEL: 171.73 ft (rept) (meas) 2-18 1959 (above) (below) top of 2'x2' concrete pump base

_____ which is 1.9 ft (above) (below) LS

PERMANENT RP is top of pump house concrete floor

which is 1.00 ft (above) (below) described MP and 0.9 ft (above) (below) LS

REMARKS Entrance for tape is hole in concrete

AQUIFER(S): Qal

Well No. 1 on Photo PRD-2-87 DPN 15-10475

File No C-1360 (M-193) Loc. No. 26.30.5.33441

Remarks cont. base, south side. Pecos Turbine Station, Water Well No. 1
4-3-72 HWP talked to Mr. Bill Harris at pump station. he said they may soon electrify these wells. Both wells were pulled and cleaned out in 1971. Both wells are housed in corrugated iron shelters. This well is located 260' +/- (paced) N-NW of U.S.C&G.S.
SKETCH: BM No. U-310, Dated 1958 Elv. 3088.17 G.L. at well is 2.8' above top of BM, by hand level.

N ↑

7-8824 HWP 8°° well POA – gas engine - building locked
02 Nov. 83 [illegible] & FAC. Elev. [illegible]
Book 21 8, pg. 20.

APRIL 11, 1985, JCG & KF, well is Locked up No way To Sample

INITIAL WATER-LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below LS
	1st	2nd	3rd	
Date May ___, 1952				
Hour ___ AM/PM Obs EPNG				
Not POA ( ) POA ( )				173

W L meas after pump shut off ___ min. Pumping W L ( )
Remarks Reported water level on completion of the well.

STATE ENGINEER
Technical Division

Owner E.P.N.G. Co. / Use Industrial	DEPTH TO WATER Below MP 1st	Below MP 2nd	Below LSD	WATER LEVEL ELEV
Date Feb 18, 1959	190.00	175.00	171.83	3092
Hour ____ AM/PM Obs JBC / USGS	18.17	3.14	1.90	170
Not POA (X) POA ( )	171.83	171.86	169.93	2922

W L meas after pump shut off ____ min. Pumping W L ( )
Remarks ____

Date Jan 19, 1971			174.00	3092
Hour ____ AM/PM Obs E.P.N.G.			1.90	172R
Not POA ( ) POA ( )		174'	172.10	2920R

W L meas after pump shut off ____ min. Pumping W L ( )
Remarks Reported static level

Date April 3, 1972	185.00	176.00	173.27	3092
Hour 11 AM/PM Obs HWP	11.73	2.73	1.90	171
Not POA ( ) POA ( )	173.27	173.27	171.37	2921

W L meas after pump shut off ____ min. Pumping W L ( )
Remarks ____

Date Jan 28, 1976	183.00	176.00	173.25	3092
Hour 10.00 AM/PM Obs HWP	9.75	2.74	1.90	171
Not POA (X) POA ( )	173.25	173.26	171.35	2921

W L meas after pump shut off ____ min. Pumping W L ( )
Remarks Control time clock is not running

Latitude ____ Longitude DPN 15-10475
File No C-1360 Location No 26.30.5.33441

STATE ENGINEER
Technical Division

Owner E.P.N.G. Co.
Use Industrial

	DEPTH TO WATER			WATER
	Below MP		Below	LEVEL
	1st	2nd	LSD	ELEV
Date JANUARY 26, 1983				
Hour 12:30 AM/PM Obs LEATHERS				
Not POA ( ) POA ( )				

W L meas after pump shut off_____min. Pumping W L ( )
Remarks LOCKED BUILDING SO UNABLE TO MEASURE

Date Feb 15, 1983	198.00	190.00	188.14	3092
Hour 9:50 AM/PM Obs RHH TS	9.84	1.86	1.90	186
Not POA (X) POA ( )	188.16	188.14	186.24	2906

W L meas after pump shut off_____min. Pumping W L ( )
Remarks

Date ____, 19__				
Hour AM/PM Obs				
Not POA ( ) POA ( )				

W L meas after pump shut off_____min. Pumping W L ( )
Remarks

Date ____, 19__				
Hour AM/PM Obs				
Not POA ( ) POA ( )				

W L meas after pump shut off_____min. Pumping W L ( )
Remarks

Latitude _____ Longitude DPN 15-10475
File No C-1360 Location No 26.30.5.33441

FE-1 State of New Mexico
State Engineer

WELL SCHEDULE

Source of data: Obser ☐ Owner ☐ Other Decln & log

Date November 20 1953 Record by J. C. Yates

LOCATION: County Eddy Map 119.3.3

OWNER El Paso Natural Gas Co. (on Federal land)

DRILLER Folk Drilling Co. Completed June 1 1952

Book 8, pg. 26

TOPO SITUATION S.E.O. & topo Elev 3101.8

DEPTH 775 ft ☒ Rept ☐ Meas Use Industrial

CASING 10 3/4 * in to 570 ft Log from owner

PUMP: Type turbine Make Peerless

(Ser.no)/model 55597 Size of dischg _____ in.

PRIME MOVER: Make Allis Chalmers B 125 HP 11.5

Ser.no. PU 78870 B Power/(Fuel) Nat. gas

PUMP DRIVE: ☒ Gear Head ☐ Belt Head ☐ Pump Jack

Make _____ Ser.no _____ ☐ VHS

WATER LEVEL: 184.05 ft (rept) (meas) 8-18 1958 (above) (below) west edge of 2" pipe nipple in pump base where airline tube enters which is 2.30 ft (above) (below) LS

PERMANENT RP is top of 9' x 12' pump house concrete floor

which is 1.06 ft (above) (below) described MP and 1.24 ft (above) (below) LS

REMARKS Pump sits on 2' x 2' concrete base, the

AQUIFER(S): Qal SITE ID# 320404 1035231 01

Well No. 2 on Photo PRD-2-37 DPN 15-10476

File No C-1361 Loc. No. 26.30.5.343414

Remarks cont. top surface of which is 0.80' above concrete floor, and 0.26' below M.P. Pecos Turbine station water well #2. The pump house is shown on topo quad * 8 5/8" liner 530'-755'

7-8-82 Hwp well not pumping - pumphouse is padlocked

SKETCH: 9-4-57 Pump Plate has been welded on 4 corners. Unable to Trip Sample spot

190.00
2.44
187.56

188.00
0.56

191.00
1.65
189.35

190.00
0.23

188.00
1.33
186.67

187.00
0.31
186.69

191.00
0.22

INITIAL WATER-LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below LS
	1st	2nd	3rd	
Date August 18, 1958	270.00			184.05
Hour 12 00 N AM PM Obs WEH USGS	85.95			2.30
Not POA (X) POA ( )	184.05			181.75

W L meas after pump shut off _____ min. Pumping W L ( )

Remarks Water sample collected

STATE ENGINEER
Technical Division

Owner E.P.N.G.
Use Industrial

	DEPTH TO WATER Below MP 1st	2nd	Below LSD	WATER LEVEL ELEV
Date August 18, 1958	270.00		184.05	3102
Hour 12:00 N AM PM Obs W.E.H. USGS	85.95		2.30	182
Not POA (X) POA ( )	184.05		181.75	2920

W L meas after pump shut off _____ min. Pumping W L ( )
Remarks Water sample collected

Date February 18, 1971			185.00	3102
Hour _____ AM PM Obs EPNG			2.30	183 R
Not POA (x) POA ( )	185.00		182.70	2919 R

W L meas after pump shut off _____ min. Pumping W L ( )
Remarks Water level measured by EPNG personnel. Probably reliable.

Date January 28, 1976	188.00	187.00	184.02	3102
Hour 10:20 AM PM Obs HWP	3.97	2.98	2.30	182
Not POA (X) POA ( )	184.03	184.02	181.72	2920

W L meas after pump shut off _____ min. Pumping W L ( )
Remarks MP = west edge of 2" pipe nipple in pump base where airline tube enters. Had 90' of very spotty tape

Date Feb 15, 1983 RLT	UTM Obstruction			
Hour 10:05 AM PM Obs TDD	at	182'	Dry.	
Not POA (X) POA ( )				

W L meas after pump shut off _____ min. Pumping W L ( )
Remarks LOCKED BUILDING SO UNABLE TO MEASURE

Latitude _____ Longitude DPN 15-10476
File No C-1361 Location No 26.30.5.343414

STATE ENGINEER
Technical Division

Owner EPNG
Use Industrial

	DEPTH TO WATER			WATER
	Below MP		Below	LEVEL
	1st	2nd	LSD	ELEV
Date 10 21 ,19 87	188.00	187.00	186.67	3102
Hour 4:00 AM/PM Obs KF,NG	1.33	0.31	2.04	185
Not POA (X) POA ( )	186.67	186.69	184.63	2917

W L meas after pump shut off ____ min. Pumping W L ( )
Remarks MP is top edge of 2'x2' concrete base = 0.80' + 1.24' = 2.04' so MP = 2.04' ALS, Pump has been removed, Water Sample collected TS. @ 500'.

X Date NOV 5 ,19 92	185.08	190.00	181.71	3102
Hour 4:35 AM/PM Obs KD-PF	3.29	8.29	2.04	180
Not POA (X) POA ( )	181.71	181.71	179.67	2922

W L meas after pump shut off ____ min. Pumping W L ( )
Remarks ____

Date 1 28 ,19 98	186.00	185.00	181.74	3102
Hour 3:15 AM/PM Obs FM-FM	4.27	3.26	2.04	180
Not POA (X) POA ( )	181.73	181.74	179.70	2922

W L meas after pump shut off ____ min. Pumping W L ( )
Remarks ____

Date 1 27 ,19 03	186.00	187.00	182.24	3102
Hour 1158 AM/PM Obs PF	3.76	4.76	2.04	180
Not POA (X) POA ( )	182.24	182.24	180.20	2922

W L meas after pump shut off ____ min. Pumping W L ( )
Remarks ____

Latitude Qal Longitude 15-10476
PLSS No 26.30.5.343414.

QUALITY CONTROL SHEET — STATE ENGINEER

Date	Collector	POC	Remarks and Use	Cl.	SC	X
10-21-87	KF/WG	E@500'	no tour [illegible]	470	12940	
9-4-97	PF	UTS				

X: More Complete Analysis Available on Sample

Aquifer(s) Qal D.P.N 15-1046

File No. C-1161 Location No. 26.30.5.342414

New Mexico Office of the State Engineer
Water Right Summary

WR File Number: C 01360 **Subbasin:** CUB **Cross Reference:** -

Primary Purpose: IND INDUSTRIAL

Primary Status: DCL DECLARATION

Total Acres: 0 **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: EL PASO NATURAL GAS

Contact: PAULA JOY

Documents on File

Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
460091	COWNF	2010-05-26	CHG	PRC	C 01360	T	0	0	
203459	DCL	1953-11-17	DCL	PRC	C 01360	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
C 01360		Shallow	4	3	3	05	26S	30E	602997	3548152	

Place of Use

Q 256	Q 64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
							0	0		IND		DCL	NO PLACE OF USE GIVEN.

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	0		IND		GW	

5/17/21 9:16 AM WATER RIGHT SUMMARY

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 01360	4	3	3	05	26S	30E	602997	3548152

Driller License: 95 **Driller Company:** FOLK DRILLING CO.

Driller Name:

Drill Start Date: 04/26/1952 **Drill Finish Date:** 05/15/1952 **Plug Date:**

Log File Date: 11/17/1953 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 12.75 **Depth Well:** 770 feet **Depth Water:** 173 feet

Water Bearing Stratifications:	Top	Bottom	Description
	210	220	Sandstone/Gravel/Conglomerate
	580	585	Sandstone/Gravel/Conglomerate
	665	710	Sandstone/Gravel/Conglomerate
	725	770	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	180	289
	538	770

Meter Number: 16557 **Meter Make:** SIEMENS

Meter Serial Number: L1254823 **Meter Multiplier:** 100.0000

Number of Dials: 8 **Meter Type:** Diversion

Unit of Measure: Gallons **Return Flow Percent:**

Usage Multiplier: **Reading Frequency:** Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
07/01/2014	2014	234997	A	RPT		0	
09/30/2014	2014	354169	A	RPT		36.573	
11/20/2014	2014	7281000	A	RPT		0	
12/31/2014	2014	11430100	A	RPT		12.733	
04/01/2015	2015	22535200	A	RPT		34.080	
07/01/2015	2015	35821800	A	RPT		40.775	
10/05/2015	2015	46631200	A	RPT		33.173	
12/31/2015	2015	55653200	A	RPT		27.688	
01/31/2016	2016	58047600	A	RPT		7.348	
02/29/2016	2016	61081100	A	RPT		9.309	
03/31/2016	2016	62593100	A	RPT		4.640	
06/30/2016	2016	71642600	A	RPT		27.772	
10/03/2016	2016	81998399	A	RPT		31.781	
12/31/2016	2016	90558600	A	RPT		26.270	
04/04/2019	2019	164290087	A	RPT		226.274	
10/02/2019	2019	790380	A	RPT	METER CHANGE OUT	0	

07/2019

01/02/2020	2020	1733720	A	RPT	289.500	
04/07/2021	2021	36814117	A	WEB	10765.779	X

**YTD Meter Amounts:	Year	Amount
	2014	49.306
	2015	135.716
	2016	107.120
	2019	226.274
	2020	289.500
	2021	10765.779

Meter Number:	16558	**Meter Make:**	MASTERMETER
Meter Serial Number:	32530403	**Meter Multiplier:**	100.0000
Number of Dials:	6	**Meter Type:**	Diversion
Unit of Measure:	Gallons	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
10/01/2014	2014	354169	A	RPT		0	
11/20/2014	2014	415555	A	RPT		18.839	
11/21/2014	2014	72810	A	RPT		0	
12/31/2014	2014	112178	A	RPT		12.082	
02/01/2015	2015	147039	A	RPT		10.698	
03/02/2015	2015	188133	A	RPT		12.611	
04/01/2015	2015	224102	A	RPT		11.038	
04/30/2015	2015	270723	A	RPT		14.307	
05/31/2015	2015	315628	A	tw		13.781	
07/01/2015	2015	369075	A	tw		16.402	
08/01/2015	2015	395528	A	tw		8.118	
08/31/2015	2015	455361	A	tw		18.362	
10/01/2015	2015	466312	A	RPT		3.361	

**YTD Meter Amounts:	Year	Amount
	2014	30.921
	2015	108.678

New Mexico Office of the State Engineer
Water Right Summary

WR File Number: C 01361 **Subbasin:** CUB **Cross Reference:** -

Primary Purpose: IND INDUSTRIAL

Primary Status: DCL DECLARATION

Total Acres: 0 **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: EL PASO NATURAL GAS

Contact: PAULA JOY

Documents on File

Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
460129	COWNF	2010-05-26	CHG	PRC	C 01361	T	0	0	
203463	DCL	1953-11-17	DCL	PRC	C 01361	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
C 01361		Shallow	3	4	3	05	26S	30E	603240	3548157	

Place of Use

Q 256	Q 64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
							0	0		IND		DCL	NO PLACE OF USE GIVEN.

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	0		IND		GW	

5/19/21 1:24 PM WATER RIGHT SUMMARY

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	C 01361	3	4	3	05	26S	30E	603240	3548157

Driller License: 95 **Driller Company:** FOLK DRILLING CO.

Driller Name:

Drill Start Date: 05/16/1952 **Drill Finish Date:** 06/01/1952 **Plug Date:**

Log File Date: 11/17/1953 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 12.75 **Depth Well:** 775 feet **Depth Water:** 184 feet

Water Bearing Stratifications:

Top	Bottom	Description
195	230	Sandstone/Gravel/Conglomerate
255	295	Sandstone/Gravel/Conglomerate
535	570	Sandstone/Gravel/Conglomerate
695	735	Sandstone/Gravel/Conglomerate
740	750	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
145	353
418	555
530	755

Meter Number: 16559 **Meter Make:** SIEMENS

Meter Serial Number: L1254817 **Meter Multiplier:** 100.0000

Number of Dials: 8 **Meter Type:** Diversion

Unit of Measure: Gallons **Return Flow Percent:**

Usage Multiplier: **Reading Frequency:** Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
07/01/2014	2014	432977	A	RPT		0	
09/30/2014	2014	542020	A	RPT		33.464	
11/20/2014	2014	71523	A	RPT		0	
12/31/2014	2014	10869200	A	RPT		33.137	
04/01/2015	2015	20528000	A	RPT		29.642	
07/01/2015	2015	32166600	A	RPT		35.718	
10/02/2019	2019	41391130	A	RPT		2830.904	
01/02/2020	2020	44360000	A	RPT		911.113	

****YTD Meter Amounts:**

Year	Amount
2014	66.601
2015	65.360
2019	2830.904
2020	911.113

Meter Number:	16560	**Meter Make:**	MASTERMETER
Meter Serial Number:	425026402	**Meter Multiplier:**	1.0000
Number of Dials:	9	**Meter Type:**	Diversion
Unit of Measure:	Gallons	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
01/03/2012	2012	796624	A	RPT		0	
04/01/2014	2014	322335	R	RPT	Meter Rollover	161.335	
07/01/2014	2014	422977	A	RPT		30.886	
10/01/2014	2014	542008	A	RPT		36.529	
11/20/2014	2014	597747	A	RPT		17.106	
11/21/2014	2014	71523	A	RPT		0	
12/31/2014	2014	108692	A	RPT		11.407	
02/01/2015	2015	144071	A	RPT		10.857	
03/02/2015	2015	177073	A	RPT		10.128	
04/01/2015	2015	204100	A	RPT		8.294	
04/30/2015	2015	246672	A	RPT		13.065	
05/31/2015	2015	286863	A	RPT		12.334	
07/01/2015	2015	329411	A	RPT		13.058	
08/01/2015	2015	350757	A	RPT		6.551	
08/31/2015	2015	384122	A	RPT		10.239	
10/01/2015	2015	413202	A	RPT		8.924	
10/01/2015	2015	0	A	RPT	Meter Change	0	
10/31/2015	2015	2767800	A	RPT		8.494	
11/30/2015	2015	5636900	A	RPT		8.805	
12/31/2015	2015	7565000	A	RPT		5.917	
01/31/2016	2016	9247200	A	RPT		5.162	
02/29/2016	2016	12569900	A	RPT		10.197	
03/31/2016	2016	14698800	A	RPT		6.533	
04/30/2016	2016	16601309	A	RPT		5.839	
05/30/2016	2016	19235300	A	RPT		8.083	
06/30/2016	2016	22955800	A	RPT		11.418	
07/31/2016	2016	26437114	A	RPT		10.684	
08/30/2016	2016	30077563	A	RPT		11.172	
09/30/2016	2016	32631836	A	RPT		7.839	
10/31/2016	2016	35193200	A	RPT		7.861	
11/30/2016	2016	37896100	A	RPT		8.295	
12/31/2016	2016	41023100	A	RPT		9.596	
04/04/2019	2019	99357190	A	RPT		179.021	

**YTD Meter Amounts:	Year	Amount
	2012	0
	2014	257.263
	2015	116.666
	2016	102.679
	2019	179.021

5/19/21 1:25 PM POINT OF DIVERSION SUMMARY

ATTACHMENT 2: LITHOLOGIC/SOIL SAMPLING LOG

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH01	Date: 12/23/2020
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB, TC		Method: Shaw Core Drill	
Lat/Long: 32.064892, -103.931169	Field Screening: Hach chloride strips, PID	Hole Diameter: 2"	Total Depth: 6'
			Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 6' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
W	<112	10,000	Y	CH01	0.5	0 0.5	SP	0-1.5' SAND, wet, light brown, poorly graded, fine-very fine grain, moderate brown H/C stain, moderate H/C odor. 1.5', no stain, moist.	Backfilled with sand from 6' to surface
M	<112	210	N	CH01A	2	2 3	CCHE	1.5'-6' CALICHE, moist, tan-light brown, moderately consolidated, trace fine grain brown sand, moderate H/C odor, no stain.	
M	<112	154	N	CH01B	4	4 5		4', light H/C odor.	
M	<112	160	N	CH01C	6	6			

TD @ 6' bgs.

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH02	Date: 12/23/2020
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	
LITHOLOGIC / SOIL SAMPLING LOG Logged By: BB, TC	Method: Shaw Core Drill
Lat/Long: 32.064963, -103.922274 / Field Screening: Hach chloride strips, PID	Hole Diameter: 2" / Total Depth: 4' / Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 4' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
W	1,528	10,000	Y	CH02	0.5'	0	SP	0-0.5' SAND, wet, light brown, poorly graded, fine-very fine grain, moderate H/C stain, moderate H/C odor.	Backfilled with sand from 4' to surface
							CCHE	1.5'-6' CALICHE, moist, tan-light brown, moderately consolidated, trace fine grain brown sand, moderate H/C odor, no stain.	
M	156	74.1	N	CH02A	2'	2			
						3			
M	<112	21.4	N	CH02B	4'	4		4', light H/C odor.	

TD @ 4' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH03	Date: 12/23/2020
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	
LITHOLOGIC / SOIL SAMPLING LOG Logged By: BB, TC	Method: Shaw Core Drill
Lat/Long: 32.065531, -103.920686	Field Screening: Hach chloride strips, PID
Hole Diameter: 2"	Total Depth: 8.5'
	Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 8.5' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
W	848	459	Y	CH03	0.5'	0	SP	0-1.5' SAND, wet, light brown, poorly graded, fine-very fine grain, moderate brown H/C stain, moderate H/C odor.	Backfilled with sand from 8.5' to surface
M	248	99.3	N	CH03A	2'	2	CCHE	1.5'-7.5' CALICHE, moist, tan-light brown, moderately consolidated, light H/C odor, no stain.	
						3			
M	2,008	4.3	N	CH03B	4'	4		4'-7.5', some brown medium grain sand.	
						5			
M	1,752	8.7	N	CH03C	6'	6			
						7			
						8	SW	7.5'-8.5' SAND with gravel, moist, brown-dark brown, well graded, coarse-medium grain, well rounded gravel, no stain, no odor.	
M	<124	4.8	N	CH03D	8.5'				

TD @ 8.5' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH04	Date: 12/24/2020
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB, TC		Method: Shaw Core Drill	
Lat/Long: 32.065416, -103.919444	Field Screening: Hach chloride strips, PID	Hole Diameter: 2"	Total Depth: 4' / Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 4' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
M	1,993	416	Y	CH04	0.5'	0	SP	0-1' SAND, moist, light brown-brown, poorly graded, fine-very fine grain, moderate brown H/C stain, moderate H/C odor.	Backfilled with sand from 4' to surface
M	985	62	N	CH04A	2'	2	CCHE	1'-3' CALICHE, moist, tan-light brown, moderately consolidated, trace fine grain brown sand, trace H/C odor, no stain.	
						3	SW	3'-4' SAND with gravel, moist, brown-dark brown, well graded, coarse-medium grain, well rounded gravel, trace H/C odor, no stain.	
M	229	92	N	CH04B	4'	4			

TD @ 4' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH05	Date: 12/24/2020
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: BB, TC		Method: Shaw Core Drill	
Lat/Long: 32.065114, -103.918662	Field Screening: Hach chloride strips, PID	Hole Diameter: 2"	Total Depth: 4'
			Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 4' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
						0	SP	0-0.5' SAND, moist, light brown-brown, poorly graded, fine-very fine grain, moderate brown H/C stain, moderate H/C odor.	Backfilled with sand from 4' to surface
M	444	348	Y	CH05	0.5'				
							CCHE	0.5'-2.5' CALICHE, dry, tan-light brown, moderately consolidated, trace fine grain brown sand, light H/C odor, no stain.	
D	544	38	N	CH05A	2'	2			
							SW	2.5'-4' SAND with gravel, moist, brown-dark brown, well graded, coarse-medium grain, well rounded gravel, trace H/C odor, no stain.	
						3			
D	352	3	N	CH05B	4'	4			

TD @ 4' bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH06	Date: 01/08/2021
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC			Method: Shaw Core Drill
Lat/Long: 32.065114, -103.918662	Field Screening: Hach chloride strips, PID	Hole Diameter: 2"	Total Depth: 8'
			Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 8' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
W						0	SP	0 - 1' SAND, wet, light brown, poorly graded, fine-very fine grain, brown staining, moderate odor	Backfilled with sand from 8' to surface
	2,284	5.4	Y		1'				
M	1,422	3.4	N	CH06	2'	2	CCHE	2'-7' CALICHE, moist, tan-light brown, moderately consolidated, trace fine grain brown sand, no stain, light odor	
M	963	0.6	N		3'	3			
						4			
M	1,752	0.2	N		5'	5			
						6			
						7	SW	7.5'-8' SAND with gravel, moist, tan-brown, well graded coarse-medium grain, well rounded gravel, no stain, no odor	
M	509	0.0	N	CH06A	8'	8			

TD @ 8' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH07	Date: 01/08/2021
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC			Method: Shaw Core Drill
Lat/Long: 32.065114, -103.918662	Field Screening: Hach chloride strips, PID	Hole Diameter: 2"	Total Depth: 8'
			Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 8' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
						0	SP	0 - 2' SAND, moist, light brwn, poorly graded, fine-very fine grain, some caliche gravel, no stain, no odor	Backfilled with sand from 8' to surface
M	128	0.2	N	CH07	2'	2		2'-8' SAND, moist, brown, poorly graded, fine-very fine grain, no stain, no odor	
						3			
						4			
						5			
						6			
						7			
M	<128	0.0	N	CH07A	8'	8			

TD @ 8' bgs

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH08	Date: 01/11/2021
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC		Method: Shaw Core Drill	
Lat/Long: 32.065114, -103.918662	Field Screening: Hach chloride strips, PID	Hole Diameter: 2"	Total Depth: 2'
			Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 8' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
						0	SP	0 - 1' SAND, moist, light brwn, poorly graded, fine-very fine grain, some caliche gravel, no stain, no odor	Backfilled with sand from 2' to surface
M	128	0.0	N	CH08	1'	1	CCHE	1'-2' CALICHE, moist, tan-light brown, moderately consolidated, trace fine grain brown sand, trace H/C odor, no stain.	
M	<128	0.1	N	CH08A	2'	2			

TD @ 2' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH09	Date: 01/11/2021
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC			Method: Shaw Core Drill
Lat/Long: 32.065114, -103.918662	Field Screening: Hach chloride strips, PID	Hole Diameter: 2"	Total Depth: 8'
			Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 8' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
						0	SP	0 - 7' SAND, moist, light brwn, poorly graded, fine-very fine grain, some caliche gravel, no stain, no odor	Backfilled with sand from 8' to surface
D	<168	0.0	N	CH09	2'	2			
						3			
						4			
						5			
						6			
						7	SW	7'-8' SAND, moist, brown-light brown, well graded, coarse-medium grain, well rounded gravel, no stain, no odor	
D	<168	0.0	N	CH09A	8'	8			

TD @ 8' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH10	Date: 01/11/2021
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC			Method: Shaw Core Drill
Lat/Long: 32.065114, -103.918662	Field Screening: Hach chloride strips, PID	Hole Diameter: 2"	Total Depth: 8'
			Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 8' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
						0	SP	0 - 7' SAND, moist, light brwn, poorly graded, fine-very fine grain, some caliche gravel, no stain, no odor	Backfilled with sand from 8' to surface
D	<168	0.0	N	CH10	2'	2			
						3			
						4			
						5			
						6			
						7	SW	7'-8' SAND, moist, brown-light brown, well graded, coarse-medium grain, well rounded gravel, no stain, no odor	
D	<168	0.0	N	CH10A	8'	8			

TD @ 8' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH11	Date: 01/11/2021
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC			Method: Shaw Core Drill
Lat/Long: 32.065114, -103.918662	Field Screening: Hach chloride strips, PID	Hole Diameter: 2"	Total Depth: 8'
			Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 8' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
						0	SP	0 - 7' SAND, moist, light brwn, poorly graded, fine-very fine grain, some caliche gravel, no stain, no odor	Backfilled with sand from 8' to surface
D	<168	0.0	N	CH11	2'	2			
						3			
						4			
						5			
						6			
						7	SW	7'-8' SAND, moist, brown-light brown, well graded, coarse-medium grain, well rounded gravel, no stain, no odor	
D	<168	0.0	N	CH11A	8'	8			

TD @ 8' bgs

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or MW Name: CH12	Date: 01/11/2021
Site Name: Ross Ranch 6	
RP or Incident Number NAPP2034638293	
WSP Job Number: TE012920159	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC			Method: Shaw Core Drill
Lat/Long: 32.065114, -103.918662	Field Screening: Hach chloride strips, PID	Hole Diameter: 2"	Total Depth: 8'
			Depth to Water: Dry

Backfill or Well Construction Materials / Comments:
Borehole backfilled with sand from 8' to surface. All chloride tests include a 40% correction factor.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	Backfill / Well Completion
						0	SP	0 - 7' SAND, moist, light brwn, poorly graded, fine-very fine grain, some caliche gravel, no stain, no odor	Backfilled with sand from 8' to surface
D	<168	0.0	N	CH12	2'	2			
						3			
						4			
						5			
						6			
						7	SW	7'-8' SAND, moist, brown-light brown, well graded, coarse-medium grain, well rounded gravel, no stain, no odor	
D	<168	0.0	N	CH12A	8'	8			

TD @ 8' bgs

ATTACHMENT 3: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
XTO Energy, Inc.	Ross Ranch 6 Eddy County, NM	TE012920159

Photo No.	Date
1	December 4, 2020

Release within pasture facing east.

Photo No.	Date
2	December 4, 2020

Release within pasture facing east.

PHOTOGRAPHIC LOG		
XTO Energy, Inc.	Ross Ranch 6 Eddy County, NM	TE012920159

Photo No.	Date
3	December 4, 2020

Release at edge of well pad facing west.

Photo No.	Date
4	December 23, 2020

View of corehole (CH01) facing east during delineation activities.

PHOTOGRAPHIC LOG		
XTO Energy, Inc.	Ross Ranch 6 Eddy County, NM	TE012920159

Photo No.	Date
5	December 23, 2020

View of corehole (CH02) facing east during delineation activities.

Photo No.	Date
6	April 22, 2021

View of the excavation facing west.

PHOTOGRAPHIC LOG		
XTO Energy, Inc.	Ross Ranch 6 Eddy County, NM	TE012920159

Photo No.	Date
7	April 22, 2021

View of the excavation facing west.

Photo No.	Date
8	April 22, 2021

View of the excavation facing east-southeast.

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 682651

LT Environmental, Inc., Arvada, CO

Project Name: Ross Ranch 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 12.28.2020 10:05
Report Date: 02.10.2021 07:50
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	682651-001		682651-002		682651-003		682651-004		682651-005		682651-006	
	Field Id:	CH01		CH01 A		CH02		CH02 A		CH02 B		CH03	
	Depth:	0.5- ft		2- ft		0.5- ft		2- ft		4- ft		0.5- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	12.23.2020 09:34		12.23.2020 10:10		12.23.2020 11:00		12.23.2020 11:20		12.23.2020 11:50		12.23.2020 13:30	
BTEX by EPA 8021B	***Extracted:***	12.28.2020 13:49		12.28.2020 13:49		12.28.2020 13:49		12.28.2020 13:49		12.28.2020 13:49		12.28.2020 13:49	
	Analyzed:	12.29.2020 13:55		12.29.2020 12:48		12.29.2020 13:11		12.29.2020 11:18		12.28.2020 23:49		12.29.2020 14:53	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.501	0.501	<0.00201	0.00201	<0.0504	0.0504	<0.00198	0.00198	<0.00200	0.00200	<0.0996	0.0996
Toluene		17.7	2.00	<0.00201	0.00201	3.47	0.202	0.00818	0.00198	<0.00200	0.00200	0.424	0.0996
Ethylbenzene		24.0	2.00	<0.00201	0.00201	3.90	0.202	<0.00198	0.00198	<0.00200	0.00200	0.784	0.0996
m,p-Xylenes		98.4	4.01	0.0153	0.00402	14.8	0.403	0.0149	0.00397	<0.00399	0.00399	3.30	0.199
o-Xylene		39.2	2.00	0.00869	0.00201	4.87	0.202	<0.00198	0.00198	<0.00200	0.00200	1.65	0.0996
Total Xylenes		138	2.00	0.0240	0.00201	19.7	0.202	0.0149	0.00198	<0.00200	0.00200	4.95	0.0996
Total BTEX		179	0.501	0.0240	0.00201	27.0	0.0504	0.0231	0.00198	<0.00200	0.00200	6.16	0.0996
Chloride by EPA 300	***Extracted:***	12.28.2020 15:00		12.28.2020 15:00		12.28.2020 15:00		12.28.2020 15:00		12.28.2020 15:00		12.28.2020 15:00	
	Analyzed:	12.28.2020 16:53		12.28.2020 16:59		12.28.2020 17:05		12.28.2020 17:23		12.28.2020 17:29		12.28.2020 17:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		26.4	10.1	<10.1	10.1	1470	49.7	305	9.98	59.0	10.0	1510	50.1
TPH by SW8015 Mod	***Extracted:***	12.28.2020 12:00		12.28.2020 12:00		12.28.2020 12:00		12.28.2020 12:00		12.28.2020 12:00		12.28.2020 12:00	
	Analyzed:	12.28.2020 17:16		12.28.2020 17:36		12.28.2020 17:56		12.28.2020 18:16		12.28.2020 18:56		12.28.2020 19:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		317	49.9	117	50.2	262	49.8	<50.3	50.3	<50.3	50.3	371	50.2
Diesel Range Organics (DRO)		4700	49.9	446	50.2	4290	49.8	200	50.3	292	50.3	4520	50.2
Motor Oil Range Hydrocarbons (MRO)		168	49.9	<50.2	50.2	333	49.8	55.7	50.3	62.8	50.3	136	50.2
Total GRO-DRO		5020	49.9	563	50.2	4550	49.8	200	50.3	292	50.3	4890	50.2
Total TPH		5190	49.9	563	50.2	4890	49.8	256	50.3	355	50.3	5030	50.2

BRL - Below Reporting Limit

Jessica Kramer

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

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Certificate of Analysis Summary 682651

LT Environmental, Inc., Arvada, CO

Project Name: Ross Ranch 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 12.28.2020 10:05
Report Date: 02.10.2021 07:50
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	682651-007		682651-008		682651-009		682651-010					
	Field Id:	CH03 A		CH03 B		CH03 C		CH03 D					
	Depth:	2- ft		4- ft		6- ft		8.5- ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	12.23.2020 13:40		12.23.2020 13:50		12.23.2020 14:15		12.23.2020 15:00					
BTEX by EPA 8021B	***Extracted:***	12.28.2020 13:49		12.28.2020 13:49		12.28.2020 13:49		12.28.2020 13:49					
	Analyzed:	12.29.2020 11:41		12.29.2020 00:56		12.29.2020 01:19		12.29.2020 12:03					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Toluene		0.00770	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Ethylbenzene		0.00991	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
m,p-Xylenes		0.0498	0.00399	<0.00399	0.00399	<0.00401	0.00401	<0.00403	0.00403				
o-Xylene		0.0195	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Total Xylenes		0.0693	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Total BTEX		0.0869	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202				
Chloride by EPA 300	***Extracted:***	12.28.2020 15:00		12.28.2020 15:00		12.28.2020 15:00		12.28.2020 15:00					
	Analyzed:	12.28.2020 17:53		12.28.2020 17:59		12.28.2020 18:05		12.28.2020 18:11					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		696	49.9	2860	49.8	1160	9.98	49.3	9.96				
TPH by SW8015 Mod	***Extracted:***	12.28.2020 12:00		12.28.2020 12:00		12.28.2020 12:00		12.28.2020 12:00					
	Analyzed:	12.28.2020 19:36		12.28.2020 19:56		12.28.2020 20:16		02.08.2021 09:45					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.8	49.8	<49.8	49.8	<49.8	49.8				
Diesel Range Organics (DRO)		96.5	49.9	94.6	49.8	84.4	49.8	94.3 K	49.8				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.8	49.8	73.3	49.8	<49.8	49.8				
Total GRO-DRO		96.5	49.9	94.6	49.8	84.4	49.8	94.3 K	49.8				
Total TPH		96.5	49.9	94.6	49.8	158	49.8	94.3 K	49.8				

BRL - Below Reporting Limit

Jessica Kramer

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Analytical Report 682651

for

LT Environmental, Inc.

Project Manager: Dan Moir

Ross Ranch 6 Battery

TE012920159

02.10.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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02.10.2021

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

Reference: Eurofins Xenco, LLC Report No(s): **682651**
Ross Ranch 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 682651. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 682651 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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Sample Cross Reference 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01	S	12.23.2020 09:34	0.5 ft	682651-001
CH01 A	S	12.23.2020 10:10	2 ft	682651-002
CH02	S	12.23.2020 11:00	0.5 ft	682651-003
CH02 A	S	12.23.2020 11:20	2 ft	682651-004
CH02 B	S	12.23.2020 11:50	4 ft	682651-005
CH03	S	12.23.2020 13:30	0.5 ft	682651-006
CH03 A	S	12.23.2020 13:40	2 ft	682651-007
CH03 B	S	12.23.2020 13:50	4 ft	682651-008
CH03 C	S	12.23.2020 14:15	6 ft	682651-009
CH03 D	S	12.23.2020 15:00	8.5 ft	682651-010

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CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Ross Ranch 6 Battery

Project ID: *TE012920159*
Work Order Number(s): *682651*

Report Date: *02.10.2021*
Date Received: *12.28.2020*

Sample receipt non conformances and comments:

New Version - Re ran sample CH03D for TPH. Re ran out of HOLD.

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH01**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-001	Date Collected:	12.23.2020 09:34	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26.4**	10.1	mg/kg	12.28.2020 16:53		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**317**	49.9	mg/kg	12.28.2020 17:16		1
Diesel Range Organics (DRO)	C10C28DRO	**4700**	49.9	mg/kg	12.28.2020 17:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**168**	49.9	mg/kg	12.28.2020 17:16		1
Total GRO-DRO	PHC628	**5020**	49.9	mg/kg	12.28.2020 17:16		1
Total TPH	PHC635	**5190**	49.9	mg/kg	12.28.2020 17:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-135	12.28.2020 17:16	
o-Terphenyl	84-15-1	102	%	70-135	12.28.2020 17:16	

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Certificate of Analytical Results 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH01**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-001	Date Collected:	12.23.2020 09:34	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.501	0.501	mg/kg	12.29.2020 13:55	U	1000
Toluene	108-88-3	**17.7**	2.00	mg/kg	12.29.2020 13:55		1000
Ethylbenzene	100-41-4	**24.0**	2.00	mg/kg	12.29.2020 13:55		1000
m,p-Xylenes	179601-23-1	**98.4**	4.01	mg/kg	12.29.2020 13:55		1000
o-Xylene	95-47-6	**39.2**	2.00	mg/kg	12.29.2020 13:55		1000
Total Xylenes	1330-20-7	**138**	2.00	mg/kg	12.29.2020 13:55		1000
Total BTEX		**179**	0.501	mg/kg	12.29.2020 13:55		1000

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	12.29.2020 13:55	
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.29.2020 13:55	

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Certificate of Analytical Results 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH01 A**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-002	Date Collected:	12.23.2020 10:10	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<10.1	10.1	mg/kg	12.28.2020 16:59	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**117**	50.2	mg/kg	12.28.2020 17:36		1
Diesel Range Organics (DRO)	C10C28DRO	**446**	50.2	mg/kg	12.28.2020 17:36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.28.2020 17:36	U	1
Total GRO-DRO	PHC628	**563**	50.2	mg/kg	12.28.2020 17:36		1
Total TPH	PHC635	**563**	50.2	mg/kg	12.28.2020 17:36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	12.28.2020 17:36	
o-Terphenyl	84-15-1	106	%	70-135	12.28.2020 17:36	

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Certificate of Analytical Results 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH01 A**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-002	Date Collected:	12.23.2020 10:10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	12.29.2020 12:48	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	12.29.2020 12:48	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	12.29.2020 12:48	U	1
m,p-Xylenes	179601-23-1	**0.0153**	0.00402	mg/kg	12.29.2020 12:48		1
o-Xylene	95-47-6	**0.00869**	0.00201	mg/kg	12.29.2020 12:48		1
Total Xylenes	1330-20-7	**0.0240**	0.00201	mg/kg	12.29.2020 12:48		1
Total BTEX		**0.0240**	0.00201	mg/kg	12.29.2020 12:48		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	12.29.2020 12:48	
1,4-Difluorobenzene	540-36-3	96	%	70-130	12.29.2020 12:48	

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Certificate of Analytical Results 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH02**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-003	Date Collected:	12.23.2020 11:00	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1470**	49.7	mg/kg	12.28.2020 17:05		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**262**	49.8	mg/kg	12.28.2020 17:56		1
Diesel Range Organics (DRO)	C10C28DRO	**4290**	49.8	mg/kg	12.28.2020 17:56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**333**	49.8	mg/kg	12.28.2020 17:56		1
Total GRO-DRO	PHC628	**4550**	49.8	mg/kg	12.28.2020 17:56		1
Total TPH	PHC635	**4890**	49.8	mg/kg	12.28.2020 17:56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	12.28.2020 17:56	
o-Terphenyl	84-15-1	106	%	70-135	12.28.2020 17:56	

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Certificate of Analytical Results 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH02**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-003	Date Collected:	12.23.2020 11:00	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0504	0.0504	mg/kg	12.29.2020 13:11	U	100
Toluene	108-88-3	**3.47**	0.202	mg/kg	12.29.2020 13:11		100
Ethylbenzene	100-41-4	**3.90**	0.202	mg/kg	12.29.2020 13:11		100
m,p-Xylenes	179601-23-1	**14.8**	0.403	mg/kg	12.29.2020 13:11		100
o-Xylene	95-47-6	**4.87**	0.202	mg/kg	12.29.2020 13:11		100
Total Xylenes	1330-20-7	**19.7**	0.202	mg/kg	12.29.2020 13:11		100
Total BTEX		**27.0**	0.0504	mg/kg	12.29.2020 13:11		100

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.29.2020 13:11	
4-Bromofluorobenzene	460-00-4	110	%	70-130	12.29.2020 13:11	

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Certificate of Analytical Results 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH02 A**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-004	Date Collected:	12.23.2020 11:20	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**305**	9.98	mg/kg	12.28.2020 17:23		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	12.28.2020 18:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	**200**	50.3	mg/kg	12.28.2020 18:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**55.7**	50.3	mg/kg	12.28.2020 18:16		1
Total GRO-DRO	PHC628	**200**	50.3	mg/kg	12.28.2020 18:16		1
Total TPH	PHC635	**256**	50.3	mg/kg	12.28.2020 18:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	12.28.2020 18:16	
o-Terphenyl	84-15-1	102	%	70-135	12.28.2020 18:16	

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Certificate of Analytical Results 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH02 A**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-004	Date Collected:	12.23.2020 11:20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	12.29.2020 11:18	U	1
Toluene	108-88-3	**0.00818**	0.00198	mg/kg	12.29.2020 11:18		1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	12.29.2020 11:18	U	1
m,p-Xylenes	179601-23-1	**0.0149**	0.00397	mg/kg	12.29.2020 11:18		1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	12.29.2020 11:18	U	1
Total Xylenes	1330-20-7	**0.0149**	0.00198	mg/kg	12.29.2020 11:18		1
Total BTEX		**0.0231**	0.00198	mg/kg	12.29.2020 11:18		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	12.29.2020 11:18	
1,4-Difluorobenzene	540-36-3	101	%	70-130	12.29.2020 11:18	

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Certificate of Analytical Results 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH02 B**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-005	Date Collected:	12.23.2020 11:50	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**59.0**	10.0	mg/kg	12.28.2020 17:29		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	12.28.2020 18:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	**292**	50.3	mg/kg	12.28.2020 18:56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**62.8**	50.3	mg/kg	12.28.2020 18:56		1
Total GRO-DRO	PHC628	**292**	50.3	mg/kg	12.28.2020 18:56		1
Total TPH	PHC635	**355**	50.3	mg/kg	12.28.2020 18:56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	12.28.2020 18:56	
o-Terphenyl	84-15-1	98	%	70-135	12.28.2020 18:56	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH02 B**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-005	Date Collected:	12.23.2020 11:50	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.28.2020 23:49	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.28.2020 23:49	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.28.2020 23:49	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.28.2020 23:49	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.28.2020 23:49	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.28.2020 23:49	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.28.2020 23:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125	%	70-130	12.28.2020 23:49	
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.28.2020 23:49	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH03**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-006	Date Collected:	12.23.2020 13:30	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1510**	50.1	mg/kg	12.28.2020 17:47		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**371**	50.2	mg/kg	12.28.2020 19:16		1
Diesel Range Organics (DRO)	C10C28DRO	**4520**	50.2	mg/kg	12.28.2020 19:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**136**	50.2	mg/kg	12.28.2020 19:16		1
Total GRO-DRO	PHC628	**4890**	50.2	mg/kg	12.28.2020 19:16		1
Total TPH	PHC635	**5030**	50.2	mg/kg	12.28.2020 19:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	12.28.2020 19:16	
o-Terphenyl	84-15-1	103	%	70-135	12.28.2020 19:16	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH03**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-006	Date Collected:	12.23.2020 13:30	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0996	0.0996	mg/kg	12.29.2020 14:53	U	50
Toluene	108-88-3	**0.424**	0.0996	mg/kg	12.29.2020 14:53		50
Ethylbenzene	100-41-4	**0.784**	0.0996	mg/kg	12.29.2020 14:53		50
m,p-Xylenes	179601-23-1	**3.30**	0.199	mg/kg	12.29.2020 14:53		50
o-Xylene	95-47-6	**1.65**	0.0996	mg/kg	12.29.2020 14:53		50
Total Xylenes	1330-20-7	**4.95**	0.0996	mg/kg	12.29.2020 14:53		50
Total BTEX		**6.16**	0.0996	mg/kg	12.29.2020 14:53		50

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	12.29.2020 14:53	
4-Bromofluorobenzene	460-00-4	105	%	70-130	12.29.2020 14:53	

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Certificate of Analytical Results 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH03 A**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-007	Date Collected:	12.23.2020 13:40	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**696**	49.9	mg/kg	12.28.2020 17:53		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.28.2020 19:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	**96.5**	49.9	mg/kg	12.28.2020 19:36		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.28.2020 19:36	U	1
Total GRO-DRO	PHC628	**96.5**	49.9	mg/kg	12.28.2020 19:36		1
Total TPH	PHC635	**96.5**	49.9	mg/kg	12.28.2020 19:36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	12.28.2020 19:36	
o-Terphenyl	84-15-1	108	%	70-135	12.28.2020 19:36	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH03 A**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-007	Date Collected:	12.23.2020 13:40	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.29.2020 11:41	U	1
Toluene	108-88-3	**0.00770**	0.00200	mg/kg	12.29.2020 11:41		1
Ethylbenzene	100-41-4	**0.00991**	0.00200	mg/kg	12.29.2020 11:41		1
m,p-Xylenes	179601-23-1	**0.0498**	0.00399	mg/kg	12.29.2020 11:41		1
o-Xylene	95-47-6	**0.0195**	0.00200	mg/kg	12.29.2020 11:41		1
Total Xylenes	1330-20-7	**0.0693**	0.00200	mg/kg	12.29.2020 11:41		1
Total BTEX		**0.0869**	0.00200	mg/kg	12.29.2020 11:41		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	12.29.2020 11:41	
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.29.2020 11:41	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH03 B**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-008	Date Collected:	12.23.2020 13:50	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2860**	49.8	mg/kg	12.28.2020 17:59		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.28.2020 19:56	U	1
Diesel Range Organics (DRO)	C10C28DRO	**94.6**	49.8	mg/kg	12.28.2020 19:56		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.28.2020 19:56	U	1
Total GRO-DRO	PHC628	**94.6**	49.8	mg/kg	12.28.2020 19:56		1
Total TPH	PHC635	**94.6**	49.8	mg/kg	12.28.2020 19:56		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	12.28.2020 19:56	
o-Terphenyl	84-15-1	106	%	70-135	12.28.2020 19:56	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH03 B**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-008	Date Collected:	12.23.2020 13:50	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.29.2020 00:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.29.2020 00:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.29.2020 00:56	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.29.2020 00:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.29.2020 00:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.29.2020 00:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.29.2020 00:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	111	%	70-130	12.29.2020 00:56	
1,4-Difluorobenzene	540-36-3	103	%	70-130	12.29.2020 00:56	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH03 C**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-009	Date Collected:	12.23.2020 14:15	Sample Depth:	6 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1160**	9.98	mg/kg	12.28.2020 18:05		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.28.2020 20:16	U	1
Diesel Range Organics (DRO)	C10C28DRO	**84.4**	49.8	mg/kg	12.28.2020 20:16		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**73.3**	49.8	mg/kg	12.28.2020 20:16		1
Total GRO-DRO	PHC628	**84.4**	49.8	mg/kg	12.28.2020 20:16		1
Total TPH	PHC635	**158**	49.8	mg/kg	12.28.2020 20:16		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	12.28.2020 20:16	
o-Terphenyl	84-15-1	110	%	70-135	12.28.2020 20:16	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH03 C**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-009	Date Collected:	12.23.2020 14:15	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.29.2020 01:19	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.29.2020 01:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.29.2020 01:19	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	12.29.2020 01:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.29.2020 01:19	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.29.2020 01:19	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.29.2020 01:19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	12.29.2020 01:19	
1,4-Difluorobenzene	540-36-3	105	%	70-130	12.29.2020 01:19	

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Certificate of Analytical Results 682651

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH03 D**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-010	Date Collected:	12.23.2020 15:00	Sample Depth:	8.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**49.3**	9.96	mg/kg	12.28.2020 18:11		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.08.2021 09:45	UK	1
Diesel Range Organics (DRO)	C10C28DRO	**94.3**	49.8	mg/kg	02.08.2021 09:45	K	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	02.08.2021 09:45	UK	1
Total GRO-DRO	PHC628	**94.3**	49.8	mg/kg	02.08.2021 09:45	K	1
Total TPH	PHC635	**94.3**	49.8	mg/kg	02.08.2021 09:45	K	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-135	02.08.2021 09:45	
o-Terphenyl	84-15-1	104	%	70-135	02.08.2021 09:45	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH03 D**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682651-010	Date Collected:	12.23.2020 15:00	Sample Depth:	8.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.29.2020 12:03	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	12.29.2020 12:03	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	12.29.2020 12:03	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	12.29.2020 12:03	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	12.29.2020 12:03	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	12.29.2020 12:03	U	1
Total BTEX		<0.00202	0.00202	mg/kg	12.29.2020 12:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	12.29.2020 12:03	
1,4-Difluorobenzene	540-36-3	102	%	70-130	12.29.2020 12:03	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 682651

LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3146199 — Matrix: Solid — Date Prep: 12.28.2020
MB Sample Id: 7717983-1-BLK — LCS Sample Id: 7717983-1-BKS — LCSD Sample Id: 7717983-1-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	258	103	258	103	90-110	0	20	mg/kg	12.28.2020 15:29	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3146199 — Matrix: Soil — Date Prep: 12.28.2020
Parent Sample Id: 682649-001 — MS Sample Id: 682649-001 S — MSD Sample Id: 682649-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.1	202	203	100	203	100	90-110	0	20	mg/kg	12.28.2020 15:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3146199 — Matrix: Soil — Date Prep: 12.28.2020
Parent Sample Id: 682651-003 — MS Sample Id: 682651-003 S — MSD Sample Id: 682651-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1470	200	1680	105	1670	100	90-110	1	20	mg/kg	12.28.2020 17:11	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3146196 — Matrix: Solid — Date Prep: 12.28.2020
MB Sample Id: 7717992-1-BLK — LCS Sample Id: 7717992-1-BKS — LCSD Sample Id: 7717992-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	1160	116	70-135	5	35	mg/kg	12.28.2020 13:52	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1020	102	70-135	3	35	mg/kg	12.28.2020 13:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		118		106		70-135	%	12.28.2020 13:52
o-Terphenyl	114		92		107		70-135	%	12.28.2020 13:52

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3146196 — Matrix: Solid — Date Prep: 12.28.2020
MB Sample Id: 7717992-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.28.2020 13:32	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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QC Summary 682651

LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3146196 Matrix: Soil Date Prep: 12.28.2020
Parent Sample Id: 682650-002 MS Sample Id: 682650-002 S MSD Sample Id: 682650-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1200	120	1290	129	70-135	7	35	mg/kg	12.28.2020 14:55	
Diesel Range Organics (DRO)	96.8	1000	1210	111	1090	99	70-135	10	35	mg/kg	12.28.2020 14:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		107		70-135	%	12.28.2020 14:55
o-Terphenyl	106		114		70-135	%	12.28.2020 14:55

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3146209 Matrix: Solid Date Prep: 12.28.2020
MB Sample Id: 7717957-1-BLK LCS Sample Id: 7717957-1-BKS LCSD Sample Id: 7717957-1-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	0.0977	98	0.0915	92	70-130	7	35	mg/kg	12.28.2020 13:30	
Toluene	<0.00200	0.100	0.0938	94	0.0877	88	70-130	7	35	mg/kg	12.28.2020 13:30	
Ethylbenzene	<0.00200	0.100	0.0974	97	0.0906	91	71-129	7	35	mg/kg	12.28.2020 13:30	
m,p-Xylenes	<0.00400	0.200	0.205	103	0.190	95	70-135	8	35	mg/kg	12.28.2020 13:30	
o-Xylene	<0.00200	0.100	0.101	101	0.0935	94	71-133	8	35	mg/kg	12.28.2020 13:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		104		97		70-130	%	12.28.2020 13:30
4-Bromofluorobenzene	111		109		107		70-130	%	12.28.2020 13:30

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3146209 Matrix: Soil Date Prep: 12.28.2020
Parent Sample Id: 682650-002 MS Sample Id: 682650-002 S MSD Sample Id: 682650-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0862	86	0.0994	100	70-130	14	35	mg/kg	12.28.2020 21:22	
Toluene	0.0198	0.0998	0.0912	72	0.0919	72	70-130	1	35	mg/kg	12.28.2020 21:22	
Ethylbenzene	0.00766	0.0998	0.0915	84	0.0955	88	71-129	4	35	mg/kg	12.28.2020 21:22	
m,p-Xylenes	0.0286	0.200	0.189	80	0.199	86	70-135	5	35	mg/kg	12.28.2020 21:22	
o-Xylene	0.00960	0.0998	0.0962	87	0.0999	91	71-133	4	35	mg/kg	12.28.2020 21:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	12.28.2020 21:22
4-Bromofluorobenzene	108		110		70-130	%	12.28.2020 21:22

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 682651

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:	3104 E Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	432.236.3849	Email:	bbelill@ltenv.com

Work Order Comments

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

Project Name:	Ross Ranch 6 Batt	Turn Around	
Project Number:	TE01292159	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Benjamin Belill	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.8/0.6	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:	10	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH01	S	12/23/20	0934	0.5'	1	X	X	X
CH01A			1010	2'				
CH02			1100	0.5'				
CH02A			1120	2'				
CH02B			1150	4'				
CH03			1330	0.5'				
CH03A			1340	2'				
CH03B			1350	4'				
CH03C			1415	6'				
CH03D			1500	8.5'				

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
B. T. Belill	Cice Cuyler	12/28/2020 1005	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 12.28.2020 10.05.00 AM

Work Order #: 682651

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)?	.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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 12.28.2020

Checklist reviewed by: Jessica Kramer Date: 12.28.2020

Jessica Kramer

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Certificate of Analysis Summary 682649

LT Environmental, Inc., Arvada, CO

Project Name: Ross Ranch 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 12.28.2020 10:05
Report Date: 01.14.2021 09:39
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	682649-001		682649-002					
	Field Id:	CH01 B		CH01 C					
	Depth:	4- ft		6- ft					
	Matrix:	SOIL		SOIL					
	Sampled:	12.23.2020 10:19		12.23.2020 10:58					
BTEX by EPA 8021B	***Extracted:***	12.28.2020 13:49		12.28.2020 13:49					
	Analyzed:	12.28.2020 19:52		12.28.2020 20:14					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Benzene		<0.00199	0.00199	<0.00202	0.00202				
Toluene		0.0211	0.00199	0.0133	0.00202				
Ethylbenzene		0.0157	0.00199	0.0141	0.00202				
m,p-Xylenes		0.0774	0.00398	0.0557	0.00403				
o-Xylene		0.0275	0.00199	0.0205	0.00202				
Total Xylenes		0.105	0.00199	0.0762	0.00202				
Total BTEX		0.142	0.00199	0.104	0.00202				
Chloride by EPA 300	***Extracted:***	12.28.2020 15:00		12.28.2020 15:00					
	Analyzed:	12.28.2020 15:41		12.28.2020 15:59					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Chloride		<9.94	9.94	13.8	9.98				
TPH by SW8015 Mod	***Extracted:***	12.28.2020 12:00		12.28.2020 12:00					
	Analyzed:	12.28.2020 15:35		12.28.2020 15:55					
	Units/RL:	mg/kg	RL	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9				
Diesel Range Organics (DRO)		<49.9	49.9	<49.9	49.9				
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.9	49.9				
Total GRO-DRO		<49.9	49.9	<49.9	49.9				
Total TPH		<49.9	49.9	<49.9	49.9				

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 682649

for

LT Environmental, Inc.

Project Manager: Dan Moir

Ross Ranch 6 Battery

TE012920159

01.14.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.14.2021

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

Reference: Eurofins Xenco, LLC Report No(s): **682649**
Ross Ranch 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 682649. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 682649 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 682649

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH01 B	S	12.23.2020 10:19	4 ft	682649-001
CH01 C	S	12.23.2020 10:58	6 ft	682649-002

CASE NARRATIVE

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Client Name: LT Environmental, Inc.

Project Name: Ross Ranch 6 Battery

Project ID: *TE012920159*
Work Order Number(s): *682649*

Report Date: *01.14.2021*
Date Received: *12.28.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 682649

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH01 B**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682649-001	Date Collected:	12.23.2020 10:19	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<9.94	9.94	mg/kg	12.28.2020 15:41	U	1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	MAB				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146194			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.28.2020 15:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.28.2020 15:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.28.2020 15:35	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	12.28.2020 15:35	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.28.2020 15:35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-135	12.28.2020 15:35	
o-Terphenyl	84-15-1	103	%	70-135	12.28.2020 15:35	

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Certificate of Analytical Results 682649

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH01 B**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682649-001	Date Collected:	12.23.2020 10:19	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.28.2020 19:52	U	1
Toluene	108-88-3	**0.0211**	0.00199	mg/kg	12.28.2020 19:52		1
Ethylbenzene	100-41-4	**0.0157**	0.00199	mg/kg	12.28.2020 19:52		1
m,p-Xylenes	179601-23-1	**0.0774**	0.00398	mg/kg	12.28.2020 19:52		1
o-Xylene	95-47-6	**0.0275**	0.00199	mg/kg	12.28.2020 19:52		1
Total Xylenes	1330-20-7	**0.105**	0.00199	mg/kg	12.28.2020 19:52		1
Total BTEX		**0.142**	0.00199	mg/kg	12.28.2020 19:52		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	12.28.2020 19:52	
1,4-Difluorobenzene	540-36-3	98	%	70-130	12.28.2020 19:52	

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Certificate of Analytical Results 682649

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH01 C**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682649-002	Date Collected:	12.23.2020 10:58	Sample Depth:	6 ft

Analytical Method: Chloride by EPA 300 — Prep Method: E300P

Tech: MAB
Analyst: MAB
Seq Number: 3146199

Date Prep: 12.28.2020 15:00

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.8**	9.98	mg/kg	12.28.2020 15:59		1

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P

Tech: MAB
Analyst: CAC
Seq Number: 3146194

Date Prep: 12.28.2020 12:00

% Moisture:
Basis: Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	12.28.2020 15:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	12.28.2020 15:55	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	12.28.2020 15:55	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	12.28.2020 15:55	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	12.28.2020 15:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	12.28.2020 15:55	
o-Terphenyl	84-15-1	105	%	70-135	12.28.2020 15:55	

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Certificate of Analytical Results 682649

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH01 C**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682649-002	Date Collected:	12.23.2020 10:58	Sample Depth:	6 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	12.28.2020 20:14	U	1
Toluene	108-88-3	**0.0133**	0.00202	mg/kg	12.28.2020 20:14		1
Ethylbenzene	100-41-4	**0.0141**	0.00202	mg/kg	12.28.2020 20:14		1
m,p-Xylenes	179601-23-1	**0.0557**	0.00403	mg/kg	12.28.2020 20:14		1
o-Xylene	95-47-6	**0.0205**	0.00202	mg/kg	12.28.2020 20:14		1
Total Xylenes	1330-20-7	**0.0762**	0.00202	mg/kg	12.28.2020 20:14		1
Total BTEX		**0.104**	0.00202	mg/kg	12.28.2020 20:14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	12.28.2020 20:14	
4-Bromofluorobenzene	460-00-4	108	%	70-130	12.28.2020 20:14	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 682649

LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3146199 — Matrix: Solid — Date Prep: 12.28.2020
MB Sample Id: 7717983-1-BLK — LCS Sample Id: 7717983-1-BKS — LCSD Sample Id: 7717983-1-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	258	103	258	103	90-110	0	20	mg/kg	12.28.2020 15:29	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3146199 — Matrix: Soil — Date Prep: 12.28.2020
Parent Sample Id: 682649-001 — MS Sample Id: 682649-001 S — MSD Sample Id: 682649-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.1	202	203	100	203	100	90-110	0	20	mg/kg	12.28.2020 15:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3146199 — Matrix: Soil — Date Prep: 12.28.2020
Parent Sample Id: 682651-003 — MS Sample Id: 682651-003 S — MSD Sample Id: 682651-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1470	200	1680	105	1670	100	90-110	1	20	mg/kg	12.28.2020 17:11	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3146194 — Matrix: Solid — Date Prep: 12.28.2020
MB Sample Id: 7717990-1-BLK — LCS Sample Id: 7717990-1-BKS — LCSD Sample Id: 7717990-1-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	998	100	1080	108	70-135	8	35	mg/kg	12.28.2020 13:52	
Diesel Range Organics (DRO)	<50.0	1000	937	94	1060	106	70-135	12	35	mg/kg	12.28.2020 13:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		103		101		70-135	%	12.28.2020 13:52
o-Terphenyl	107		102		99		70-135	%	12.28.2020 13:52

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3146194 — Matrix: Solid — Date Prep: 12.28.2020
MB Sample Id: 7717990-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.28.2020 13:32	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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QC Summary 682649

LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3146194 Matrix: Soil Date Prep: 12.28.2020
Parent Sample Id: 682305-001 MS Sample Id: 682305-001 S MSD Sample Id: 682305-001 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)	<49.9	998	1120	112	980	98	70-135	13	35	mg/kg	12.28.2020 14:55	
Diesel Range Organics (DRO)	<49.9	998	1000	100	1130	113	70-135	12	35	mg/kg	12.28.2020 14:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		102		70-135	%	12.28.2020 14:55
o-Terphenyl	106		116		70-135	%	12.28.2020 14:55

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3146209 Matrix: Solid Date Prep: 12.28.2020
MB Sample Id: 7717957-1-BLK LCS Sample Id: 7717957-1-BKS LCSD Sample Id: 7717957-1-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	0.0977	98	0.0915	92	70-130	7	35	mg/kg	12.28.2020 13:30	
Toluene	<0.00200	0.100	0.0938	94	0.0877	88	70-130	7	35	mg/kg	12.28.2020 13:30	
Ethylbenzene	<0.00200	0.100	0.0974	97	0.0906	91	71-129	7	35	mg/kg	12.28.2020 13:30	
m,p-Xylenes	<0.00400	0.200	0.205	103	0.190	95	70-135	8	35	mg/kg	12.28.2020 13:30	
o-Xylene	<0.00200	0.100	0.101	101	0.0935	94	71-133	8	35	mg/kg	12.28.2020 13:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		104		97		70-130	%	12.28.2020 13:30
4-Bromofluorobenzene	111		109		107		70-130	%	12.28.2020 13:30

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3146209 Matrix: Soil Date Prep: 12.28.2020
Parent Sample Id: 682650-002 MS Sample Id: 682650-002 S MSD Sample Id: 682650-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0862	86	0.0994	100	70-130	14	35	mg/kg	12.28.2020 21:22	
Toluene	0.0198	0.0998	0.0912	72	0.0919	72	70-130	1	35	mg/kg	12.28.2020 21:22	
Ethylbenzene	0.00766	0.0998	0.0915	84	0.0955	88	71-129	4	35	mg/kg	12.28.2020 21:22	
m,p-Xylenes	0.0286	0.200	0.189	80	0.199	86	70-135	5	35	mg/kg	12.28.2020 21:22	
o-Xylene	0.00960	0.0998	0.0962	87	0.0999	91	71-133	4	35	mg/kg	12.28.2020 21:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	12.28.2020 21:22
4-Bromofluorobenzene	108		110		70-130	%	12.28.2020 21:22

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

XENCO LABORATORIES

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: 682649

www.xenco.com Page 1 of 1

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

Work Order Comments

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

Project Name:	Ross Ranch 6 Batt	Turn Around	
Project Number:	TE012920159	Routine ☐	
P.O. Number:		Rush: 24HR	
Sampler's Name:	Benjamin Belill	Due Date:	

SAMPLE RECEIPT

Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	0.8/0.6	Thermometer ID	1-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:	2

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
CH01B	S	12/23/20	1019	4'	1	X	X	X	
CH01C	↓	↓	1058	6'	↓	X	X	X	

BJB 12/23/2020

Work Order Notes

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

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 BJ Belill	Cloe Clifton 12-28-20 1005	12/28/20 @ 1005	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 12.28.2020 10.05.00 AM

Work Order #: 682649

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)?	.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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 12.28.2020

Checklist reviewed by: Jessica Kramer Date: 12.28.2020

Jessica Kramer

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Certificate of Analysis Summary 682650

LT Environmental, Inc., Arvada, CO

Project Name: Ross Ranch 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Mon 12.28.2020 10:05
Report Date: 12.30.2020 07:28
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	682650-001		682650-002		682650-003		682650-004		682650-005		682650-006	
	Field Id:	CH04		CH04 A		CH04 B		CH05		CH05 A		CH05 B	
	Depth:	0.5- ft		2- ft		4- ft		0.5- ft		2- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	12.24.2020 08:10		12.24.2020 08:30		12.24.2020 08:50		12.24.2020 09:30		12.24.2020 09:45		12.24.2020 10:10	
BTEX by EPA 8021B	***Extracted:***	12.28.2020 13:49		12.28.2020 13:49		12.28.2020 13:49		12.28.2020 13:49		12.28.2020 13:49		12.28.2020 13:49	
	Analyzed:	12.28.2020 17:48		12.28.2020 15:33		12.28.2020 17:25		12.28.2020 18:10		12.28.2020 19:07		12.28.2020 19:30	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.0998	0.0998	<0.00199	0.00199	<0.00200	0.00200	<0.0992	0.0992	<0.000497	0.000497	<0.00200	0.00200
Toluene		37.9	0.399	0.0198	0.00199	0.177	0.00200	3.58	0.397	0.0424	0.00199	<0.00200	0.00200
Ethylbenzene		20.4	0.399	0.00766	0.00199	0.0593	0.00200	6.74	0.397	0.0704	0.00199	<0.00200	0.00200
m,p-Xylenes		92.9	0.798	0.0286	0.00398	0.338	0.00399	29.5	0.794	0.373	0.00398	<0.00399	0.00399
o-Xylene		35.1	0.399	0.00960	0.00199	0.118	0.00200	11.3	0.397	0.162	0.00199	<0.00200	0.00200
Total Xylenes		128	0.399	0.0382	0.00199	0.456	0.00200	40.8	0.397	0.535	0.00199	<0.00200	0.00200
Total BTEX		186	0.0998	0.0657	0.00199	0.692	0.00200	51.1	0.0992	0.648	0.000497	<0.00200	0.00200
Chloride by EPA 300	***Extracted:***	12.28.2020 15:00		12.28.2020 15:00		12.28.2020 15:00		12.28.2020 15:00		12.28.2020 15:00		12.28.2020 15:00	
	Analyzed:	12.28.2020 16:05		12.28.2020 16:11		12.28.2020 16:17		12.28.2020 16:35		12.28.2020 16:41		12.28.2020 16:47	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		6070	50.0	1570	49.9	349	10.1	465	10.0	849	9.98	331	10.1
TPH by SW8015 Mod	***Extracted:***	12.28.2020 12:00		12.28.2020 12:00		12.28.2020 12:00		12.28.2020 12:00		12.28.2020 12:00		12.28.2020 12:00	
	Analyzed:	12.28.2020 15:35		12.28.2020 14:32		12.28.2020 15:55		12.28.2020 16:15		12.28.2020 16:35		12.28.2020 16:55	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		381	50.0	<50.2	50.2	<50.1	50.1	171	50.1	<49.8	49.8	<50.0	50.0
Diesel Range Organics (DRO)		4850	50.0	96.8	50.2	81.2	50.1	4980	50.1	81.8	49.8	81.7	50.0
Motor Oil Range Hydrocarbons (MRO)		761	50.0	<50.2	50.2	<50.1	50.1	<50.1	50.1	<49.8	49.8	<50.0	50.0
Total GRO-DRO		5230	50.0	96.8	50.2	81.2	50.1	5150	50.1	81.8	49.8	81.7	50.0
Total TPH		5990	50.0	96.8	50.2	81.2	50.1	5150	50.1	81.8	49.8	81.7	50.0

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 682650

for

LT Environmental, Inc.

Project Manager: Dan Moir

Ross Ranch 6 Battery

TE012920159

12.30.2020

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-23)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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12.30.2020

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

Reference: Eurofins Xenco, LLC Report No(s): **682650**
Ross Ranch 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 682650. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 682650 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 682650

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH04	S	12.24.2020 08:10	0.5 ft	682650-001
CH04 A	S	12.24.2020 08:30	2 ft	682650-002
CH04 B	S	12.24.2020 08:50	4 ft	682650-003
CH05	S	12.24.2020 09:30	0.5 ft	682650-004
CH05 A	S	12.24.2020 09:45	2 ft	682650-005
CH05 B	S	12.24.2020 10:10	4 ft	682650-006

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CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Ross Ranch 6 Battery

Project ID: *TE012920159*
Work Order Number(s): *682650*

Report Date: *12.30.2020*
Date Received: *12.28.2020*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 682650

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH04**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-001	Date Collected:	12.24.2020 08:10	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6070**	50.0	mg/kg	12.28.2020 16:05		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**381**	50.0	mg/kg	12.28.2020 15:35		1
Diesel Range Organics (DRO)	C10C28DRO	**4850**	50.0	mg/kg	12.28.2020 15:35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**761**	50.0	mg/kg	12.28.2020 15:35		1
Total GRO-DRO	PHC628	**5230**	50.0	mg/kg	12.28.2020 15:35		1
Total TPH	PHC635	**5990**	50.0	mg/kg	12.28.2020 15:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-135	12.28.2020 15:35	
o-Terphenyl	84-15-1	105	%	70-135	12.28.2020 15:35	

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Certificate of Analytical Results 682650

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH04**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-001	Date Collected:	12.24.2020 08:10	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0998	0.0998	mg/kg	12.28.2020 17:48	U	200
Toluene	108-88-3	**37.9**	0.399	mg/kg	12.28.2020 17:48		200
Ethylbenzene	100-41-4	**20.4**	0.399	mg/kg	12.28.2020 17:48		200
m,p-Xylenes	179601-23-1	**92.9**	0.798	mg/kg	12.28.2020 17:48		200
o-Xylene	95-47-6	**35.1**	0.399	mg/kg	12.28.2020 17:48		200
Total Xylenes	1330-20-7	**128**	0.399	mg/kg	12.28.2020 17:48		200
Total BTEX		**186**	0.0998	mg/kg	12.28.2020 17:48		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	12.28.2020 17:48	
1,4-Difluorobenzene	540-36-3	94	%	70-130	12.28.2020 17:48	

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Certificate of Analytical Results 682650

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH04 A**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-002	Date Collected:	12.24.2020 08:30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1570**	49.9	mg/kg	12.28.2020 16:11		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	12.28.2020 14:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	**96.8**	50.2	mg/kg	12.28.2020 14:32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	12.28.2020 14:32	U	1
Total GRO-DRO	PHC628	**96.8**	50.2	mg/kg	12.28.2020 14:32		1
Total TPH	PHC635	**96.8**	50.2	mg/kg	12.28.2020 14:32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	12.28.2020 14:32	
o-Terphenyl	84-15-1	108	%	70-135	12.28.2020 14:32	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH04 A**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-002	Date Collected:	12.24.2020 08:30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	12.28.2020 15:33	U	1
Toluene	108-88-3	**0.0198**	0.00199	mg/kg	12.28.2020 15:33		1
Ethylbenzene	100-41-4	**0.00766**	0.00199	mg/kg	12.28.2020 15:33		1
m,p-Xylenes	179601-23-1	**0.0286**	0.00398	mg/kg	12.28.2020 15:33		1
o-Xylene	95-47-6	**0.00960**	0.00199	mg/kg	12.28.2020 15:33		1
Total Xylenes	1330-20-7	**0.0382**	0.00199	mg/kg	12.28.2020 15:33		1
Total BTEX		**0.0657**	0.00199	mg/kg	12.28.2020 15:33		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	12.28.2020 15:33	
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.28.2020 15:33	

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Certificate of Analytical Results 682650

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH04 B**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-003	Date Collected:	12.24.2020 08:50	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**349**	10.1	mg/kg	12.28.2020 16:17		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	12.28.2020 15:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	**81.2**	50.1	mg/kg	12.28.2020 15:55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.28.2020 15:55	U	1
Total GRO-DRO	PHC628	**81.2**	50.1	mg/kg	12.28.2020 15:55		1
Total TPH	PHC635	**81.2**	50.1	mg/kg	12.28.2020 15:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	12.28.2020 15:55	
o-Terphenyl	84-15-1	108	%	70-135	12.28.2020 15:55	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH04 B**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-003	Date Collected:	12.24.2020 08:50	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.28.2020 17:25	U	1
Toluene	108-88-3	**0.177**	0.00200	mg/kg	12.28.2020 17:25		1
Ethylbenzene	100-41-4	**0.0593**	0.00200	mg/kg	12.28.2020 17:25		1
m,p-Xylenes	179601-23-1	**0.338**	0.00399	mg/kg	12.28.2020 17:25		1
o-Xylene	95-47-6	**0.118**	0.00200	mg/kg	12.28.2020 17:25		1
Total Xylenes	1330-20-7	**0.456**	0.00200	mg/kg	12.28.2020 17:25		1
Total BTEX		**0.692**	0.00200	mg/kg	12.28.2020 17:25		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	91	%	70-130	12.28.2020 17:25	
4-Bromofluorobenzene	460-00-4	100	%	70-130	12.28.2020 17:25	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH05**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-004	Date Collected:	12.24.2020 09:30	Sample Depth:	0.5 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**465**	10.0	mg/kg	12.28.2020 16:35		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	**171**	50.1	mg/kg	12.28.2020 16:15		1
Diesel Range Organics (DRO)	C10C28DRO	**4980**	50.1	mg/kg	12.28.2020 16:15		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	12.28.2020 16:15	U	1
Total GRO-DRO	PHC628	**5150**	50.1	mg/kg	12.28.2020 16:15		1
Total TPH	PHC635	**5150**	50.1	mg/kg	12.28.2020 16:15		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-135	12.28.2020 16:15	
o-Terphenyl	84-15-1	101	%	70-135	12.28.2020 16:15	

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Ross Ranch 6 Battery

Sample Id:	**CH05**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-004	Date Collected:	12.24.2020 09:30	Sample Depth:	0.5 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0992	0.0992	mg/kg	12.28.2020 18:10	U	200
Toluene	108-88-3	**3.58**	0.397	mg/kg	12.28.2020 18:10		200
Ethylbenzene	100-41-4	**6.74**	0.397	mg/kg	12.28.2020 18:10		200
m,p-Xylenes	179601-23-1	**29.5**	0.794	mg/kg	12.28.2020 18:10		200
o-Xylene	95-47-6	**11.3**	0.397	mg/kg	12.28.2020 18:10		200
Total Xylenes	1330-20-7	**40.8**	0.397	mg/kg	12.28.2020 18:10		200
Total BTEX		**51.1**	0.0992	mg/kg	12.28.2020 18:10		200

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	12.28.2020 18:10	
4-Bromofluorobenzene	460-00-4	111	%	70-130	12.28.2020 18:10	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH05 A**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-005	Date Collected:	12.24.2020 09:45	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**849**	9.98	mg/kg	12.28.2020 16:41		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	12.28.2020 16:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	**81.8**	49.8	mg/kg	12.28.2020 16:35		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	12.28.2020 16:35	U	1
Total GRO-DRO	PHC628	**81.8**	49.8	mg/kg	12.28.2020 16:35		1
Total TPH	PHC635	**81.8**	49.8	mg/kg	12.28.2020 16:35		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	12.28.2020 16:35	
o-Terphenyl	84-15-1	116	%	70-135	12.28.2020 16:35	

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Ross Ranch 6 Battery

Sample Id:	**CH05 A**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-005	Date Collected:	12.24.2020 09:45	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture:	
Seq Number:	3146209			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000497	0.000497	mg/kg	12.28.2020 19:07	U	1
Toluene	108-88-3	**0.0424**	0.00199	mg/kg	12.28.2020 19:07		1
Ethylbenzene	100-41-4	**0.0704**	0.00199	mg/kg	12.28.2020 19:07		1
m,p-Xylenes	179601-23-1	**0.373**	0.00398	mg/kg	12.28.2020 19:07		1
o-Xylene	95-47-6	**0.162**	0.00199	mg/kg	12.28.2020 19:07		1
Total Xylenes	1330-20-7	**0.535**	0.00199	mg/kg	12.28.2020 19:07		1
Total BTEX		**0.648**	0.000497	mg/kg	12.28.2020 19:07		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	12.28.2020 19:07	
4-Bromofluorobenzene	460-00-4	128	%	70-130	12.28.2020 19:07	

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Certificate of Analytical Results 682650

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH05 B**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-006	Date Collected:	12.24.2020 10:10	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 15:00	% Moisture:	
Seq Number:	3146199			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**331**	10.1	mg/kg	12.28.2020 16:47		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	12.28.2020 12:00	% Moisture:	
Seq Number:	3146196			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	12.28.2020 16:55	U	1
Diesel Range Organics (DRO)	C10C28DRO	**81.7**	50.0	mg/kg	12.28.2020 16:55		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	12.28.2020 16:55	U	1
Total GRO-DRO	PHC628	**81.7**	50.0	mg/kg	12.28.2020 16:55		1
Total TPH	PHC635	**81.7**	50.0	mg/kg	12.28.2020 16:55		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	12.28.2020 16:55	
o-Terphenyl	84-15-1	112	%	70-135	12.28.2020 16:55	

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LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH05 B**	Matrix:	Soil	Date Received:	12.28.2020 10:05
Lab Sample Id:	682650-006	Date Collected:	12.24.2020 10:10	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	12.28.2020 13:49	% Moisture: Basis:	Wet Weight
Seq Number:	3146209				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	12.28.2020 19:30	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	12.28.2020 19:30	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	12.28.2020 19:30	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	12.28.2020 19:30	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	12.28.2020 19:30	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	12.28.2020 19:30	U	1
Total BTEX		<0.00200	0.00200	mg/kg	12.28.2020 19:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	93	%	70-130	12.28.2020 19:30	
4-Bromofluorobenzene	460-00-4	107	%	70-130	12.28.2020 19:30	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 682650

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LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3146199 — Matrix: Solid — Date Prep: 12.28.2020
MB Sample Id: 7717983-1-BLK — LCS Sample Id: 7717983-1-BKS — LCSD Sample Id: 7717983-1-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	258	103	258	103	90-110	0	20	mg/kg	12.28.2020 15:29	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3146199 — Matrix: Soil — Date Prep: 12.28.2020
Parent Sample Id: 682649-001 — MS Sample Id: 682649-001 S — MSD Sample Id: 682649-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.1	202	203	100	203	100	90-110	0	20	mg/kg	12.28.2020 15:48	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3146199 — Matrix: Soil — Date Prep: 12.28.2020
Parent Sample Id: 682651-003 — MS Sample Id: 682651-003 S — MSD Sample Id: 682651-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	1470	200	1680	105	1670	100	90-110	1	20	mg/kg	12.28.2020 17:11	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3146196 — Matrix: Solid — Date Prep: 12.28.2020
MB Sample Id: 7717992-1-BLK — LCS Sample Id: 7717992-1-BKS — LCSD Sample Id: 7717992-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1100	110	1160	116	70-135	5	35	mg/kg	12.28.2020 13:52	
Diesel Range Organics (DRO)	<50.0	1000	1050	105	1020	102	70-135	3	35	mg/kg	12.28.2020 13:52	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	117		118		106		70-135	%	12.28.2020 13:52
o-Terphenyl	114		92		107		70-135	%	12.28.2020 13:52

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3146196 — Matrix: Solid — Date Prep: 12.28.2020
MB Sample Id: 7717992-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	12.28.2020 13:32	

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

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QC Summary 682650

LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3146196 Matrix: Soil Date Prep: 12.28.2020
Parent Sample Id: 682650-002 MS Sample Id: 682650-002 S MSD Sample Id: 682650-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1200	120	1290	129	70-135	7	35	mg/kg	12.28.2020 14:55	
Diesel Range Organics (DRO)	96.8	1000	1210	111	1090	99	70-135	10	35	mg/kg	12.28.2020 14:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		107		70-135	%	12.28.2020 14:55
o-Terphenyl	106		114		70-135	%	12.28.2020 14:55

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3146209 Matrix: Solid Date Prep: 12.28.2020
MB Sample Id: 7717957-1-BLK LCS Sample Id: 7717957-1-BKS LCSD Sample Id: 7717957-1-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	0.0977	98	0.0915	92	70-130	7	35	mg/kg	12.28.2020 13:30	
Toluene	<0.00200	0.100	0.0938	94	0.0877	88	70-130	7	35	mg/kg	12.28.2020 13:30	
Ethylbenzene	<0.00200	0.100	0.0974	97	0.0906	91	71-129	7	35	mg/kg	12.28.2020 13:30	
m,p-Xylenes	<0.00400	0.200	0.205	103	0.190	95	70-135	8	35	mg/kg	12.28.2020 13:30	
o-Xylene	<0.00200	0.100	0.101	101	0.0935	94	71-133	8	35	mg/kg	12.28.2020 13:30	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		104		97		70-130	%	12.28.2020 13:30
4-Bromofluorobenzene	111		109		107		70-130	%	12.28.2020 13:30

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3146209 Matrix: Soil Date Prep: 12.28.2020
Parent Sample Id: 682650-002 MS Sample Id: 682650-002 S MSD Sample Id: 682650-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0862	86	0.0994	100	70-130	14	35	mg/kg	12.28.2020 21:22	
Toluene	0.0198	0.0998	0.0912	72	0.0919	72	70-130	1	35	mg/kg	12.28.2020 21:22	
Ethylbenzene	0.00766	0.0998	0.0915	84	0.0955	88	71-129	4	35	mg/kg	12.28.2020 21:22	
m,p-Xylenes	0.0286	0.200	0.189	80	0.199	86	70-135	5	35	mg/kg	12.28.2020 21:22	
o-Xylene	0.00960	0.0998	0.0962	87	0.0999	91	71-133	4	35	mg/kg	12.28.2020 21:22	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		101		70-130	%	12.28.2020 21:22
4-Bromofluorobenzene	108		110		70-130	%	12.28.2020 21:22

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

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

Work Order No: 682650

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 St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 701-2610	Email:	dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

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

Project Name:	Ross Ranch 6 Battery	Turn Around	
Project Number:	TE012920159	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Robert McAfee	Due Date:	

SAMPLE RECEIPT				
Temperature (°C):	0.8/0.6	Temp Blank:	Yes No	Wet Ice: Yes No
Received Intact:	Yes No	Thermometer ID		T-NM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:		-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:		6

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
CH04	S	12/24/20	0810	0.5'	1	X	X	X
CH04A			0830	2'				
CH04B			0850	4'				
CH05			0930	0.5'				
CH05A			0945	2'				
CH05B	↓	↓	1010	4'	↓	↓	↓	↓

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
	Cive Cuffin	12/28/20 @ 1005	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 12.28.2020 10.05.00 AM

Work Order #: 682650

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)?	.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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 12.28.2020

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 12.28.2020

Jessica Kramer

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Certificate of Analysis Summary 684138

LT Environmental, Inc., Arvada, CO

Project Name: Ross Ranch 6 Battery

Project Id: TE012920159
Contact: Joseph Hernandez
Project Location:

Date Received in Lab: Fri 01.08.2021 16:50
Report Date: 01.14.2021 09:42
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684138-001					
	Field Id:	CH06					
	Depth:	2- ft					
	Matrix:	SOIL					
	Sampled:	01.08.2021 10:14					
BTEX by EPA 8021B	***Extracted:***	01.11.2021 17:21					
	Analyzed:	01.12.2021 09:57					
	Units/RL:	mg/kg	RL				
Benzene		<0.00199	0.00199				
Toluene		<0.00199	0.00199				
Ethylbenzene		0.00841	0.00199				
m,p-Xylenes		0.00736	0.00398				
o-Xylene		<0.00199	0.00199				
Total Xylenes		0.00736	0.00199				
Total BTEX		0.0158	0.00199				
Chloride by EPA 300	***Extracted:***	01.11.2021 12:00					
	Analyzed:	01.11.2021 22:03					
	Units/RL:	mg/kg	RL				
Chloride		1330	50.1				
TPH by SW8015 Mod	***Extracted:***	01.11.2021 17:00					
	Analyzed:	01.12.2021 02:04					
	Units/RL:	mg/kg	RL				
Gasoline Range Hydrocarbons (GRO)		<50.3	50.3				
Diesel Range Organics (DRO)		<50.3	50.3				
Motor Oil Range Hydrocarbons (MRO)		<50.3	50.3				
Total GRO-DRO		<50.3	50.3				
Total TPH		<50.3	50.3				

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 684138

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

Ross Ranch 6 Battery

TE012920159

01.14.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.14.2021

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

Reference: Eurofins Xenco, LLC Report No(s): **684138**
Ross Ranch 6 Battery
Project Address:

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684138. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684138 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684138

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH06	S	01.08.2021 10:14	2 ft	684138-001

CASE NARRATIVE

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Client Name: LT Environmental, Inc.

Project Name: Ross Ranch 6 Battery

Project ID: *TE012920159*
Work Order Number(s): *684138*

Report Date: *01.14.2021*
Date Received: *01.08.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684138

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH06**	Matrix:	Soil	Date Received:	01.08.2021 16:50
Lab Sample Id:	684138-001	Date Collected:	01.08.2021 10:14	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.11.2021 12:00	% Moisture:	
Seq Number:	3147501			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1330**	50.1	mg/kg	01.11.2021 22:03		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.11.2021 17:00	% Moisture:	
Seq Number:	3147532			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	01.12.2021 02:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	01.12.2021 02:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	01.12.2021 02:04	U	1
Total GRO-DRO	PHC628	<50.3	50.3	mg/kg	01.12.2021 02:04	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	01.12.2021 02:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	01.12.2021 02:04	
o-Terphenyl	84-15-1	108	%	70-135	01.12.2021 02:04	

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Certificate of Analytical Results 684138

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH06**	Matrix:	Soil	Date Received:	01.08.2021 16:50
Lab Sample Id:	684138-001	Date Collected:	01.08.2021 10:14	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.11.2021 17:21	% Moisture:	
Seq Number:	3147500			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.12.2021 09:57	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.12.2021 09:57	U	1
Ethylbenzene	100-41-4	**0.00841**	0.00199	mg/kg	01.12.2021 09:57		1
m,p-Xylenes	179601-23-1	**0.00736**	0.00398	mg/kg	01.12.2021 09:57		1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.12.2021 09:57	U	1
Total Xylenes	1330-20-7	**0.00736**	0.00199	mg/kg	01.12.2021 09:57		1
Total BTEX		**0.0158**	0.00199	mg/kg	01.12.2021 09:57		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	01.12.2021 09:57	
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.12.2021 09:57	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 684138

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LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Solid — Date Prep: 01.11.2021
MB Sample Id: 7718893-1-BLK — LCS Sample Id: 7718893-1-BKS — LCSD Sample Id: 7718893-1-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	256	102	258	103	90-110	1	20	mg/kg	01.11.2021 19:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Soil — Date Prep: 01.11.2021
Parent Sample Id: 684049-001 — MS Sample Id: 684049-001 S — MSD Sample Id: 684049-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5210	200	5410	100	5410	99	90-110	0	20	mg/kg	01.11.2021 19:57	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Soil — Date Prep: 01.11.2021
Parent Sample Id: 684049-011 — MS Sample Id: 684049-011 S — MSD Sample Id: 684049-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	15.3	199	214	100	215	100	90-110	0	20	mg/kg	01.11.2021 21:21	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147532 — Matrix: Solid — Date Prep: 01.11.2021
MB Sample Id: 7718944-1-BLK — LCS Sample Id: 7718944-1-BKS — LCSD Sample Id: 7718944-1-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	1040	104	1090	109	70-135	5	35	mg/kg	01.11.2021 18:29	
Diesel Range Organics (DRO)	<50.0	1000	1070	107	1000	100	70-135	7	35	mg/kg	01.11.2021 18:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	93		112		119		70-135	%	01.11.2021 18:29
o-Terphenyl	105		106		111		70-135	%	01.11.2021 18:29

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147532 — Matrix: Solid — Date Prep: 01.11.2021
MB Sample Id: 7718944-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.11.2021 18:09	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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QC Summary 684138

LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147532 Matrix: Soil Date Prep: 01.11.2021
Parent Sample Id: 684058-021 MS Sample Id: 684058-021 S MSD Sample Id: 684058-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1220	122	1110	111	70-135	9	35	mg/kg	01.11.2021 19:29	
Diesel Range Organics (DRO)	<50.2	1000	1200	120	1210	121	70-135	1	35	mg/kg	01.11.2021 19:29	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	121		112		70-135	%	01.11.2021 19:29
o-Terphenyl	98		108		70-135	%	01.11.2021 19:29

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147500 Matrix: Solid Date Prep: 01.11.2021
MB Sample Id: 7718953-1-BLK LCS Sample Id: 7718953-1-BKS LCSD Sample Id: 7718953-1-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	0.0985	99	0.0939	94	70-130	5	35	mg/kg	01.12.2021 00:49	
Toluene	<0.00200	0.100	0.0946	95	0.0899	90	70-130	5	35	mg/kg	01.12.2021 00:49	
Ethylbenzene	<0.00200	0.100	0.0954	95	0.0945	95	71-129	1	35	mg/kg	01.12.2021 00:49	
m,p-Xylenes	<0.00400	0.200	0.199	100	0.195	98	70-135	2	35	mg/kg	01.12.2021 00:49	
o-Xylene	<0.00200	0.100	0.0989	99	0.0960	96	71-133	3	35	mg/kg	01.12.2021 00:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		100		99		70-130	%	01.12.2021 00:49
4-Bromofluorobenzene	121		108		111		70-130	%	01.12.2021 00:49

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147500 Matrix: Soil Date Prep: 01.11.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.116	115	0.0889	89	70-130	26	35	mg/kg	01.12.2021 01:34	
Toluene	<0.00202	0.101	0.111	110	0.0836	84	70-130	28	35	mg/kg	01.12.2021 01:34	
Ethylbenzene	<0.00202	0.101	0.0962	95	0.0965	97	71-129	0	35	mg/kg	01.12.2021 01:34	
m,p-Xylenes	<0.00403	0.202	0.238	118	0.190	95	70-135	22	35	mg/kg	01.12.2021 01:34	
o-Xylene	<0.00202	0.101	0.116	115	0.0914	91	71-133	24	35	mg/kg	01.12.2021 01:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		86		70-130	%	01.12.2021 01:34
4-Bromofluorobenzene	112		105		70-130	%	01.12.2021 01:34

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

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

Work Order No: 684138

Page 1 of 1

Project Manager:	Joseph Hernandez	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 701-2610	Email:	dmoir@ltenv.com rmcafee@ltenv.com

Work Order Comments

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

Project Name:	Ross Ranch (11/25/20) 6 3rd Hnx	Turn Around	
Project Number:	TE01292015 9	Routine	☒
P.O. Number:	113887 1001	Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	0.4 / 0.4	Thermometer ID		
Received Intact:	Yes No	T-WM-007		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:	1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
CH06	S	1-98-21	1014	2'	1	X	X	X

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

Discrete

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		Cice Cuffs	1-8-21 1650	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 01.08.2021 04.50.00 PM

Work Order #: 684138

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 *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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.11.2021

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 01.11.2021

Jessica Kramer

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Certificate of Analysis Summary 684140

LT Environmental, Inc., Arvada, CO

Project Name: Ross Ranch 6 Battery

Project Id: TE012920159
Contact: Joseph Hernandez
Project Location:

Date Received in Lab: Fri 01.08.2021 16:50
Report Date: 01.14.2021 09:43
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684140-001					
	Field Id:	CH06 A					
	Depth:	8- ft					
	Matrix:	SOIL					
	Sampled:	01.08.2021 11:23					
BTEX by EPA 8021B	***Extracted:***	01.11.2021 17:21					
	Analyzed:	01.12.2021 02:54					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00401 0.00401					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Chloride by EPA 300	***Extracted:***	01.11.2021 12:00					
	Analyzed:	01.11.2021 22:09					
	Units/RL:	mg/kg RL					
Chloride		448 9.92					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 16:03					
	Analyzed:	01.12.2021 18:13					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9					
Diesel Range Organics (DRO)		<49.9 49.9					
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9					
Total GRO-DRO		<49.9 49.9					
Total TPH		<49.9 49.9					

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 684140

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

Ross Ranch 6 Battery

TE012920159

01.14.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.14.2021

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

Reference: Eurofins Xenco, LLC Report No(s): **684140**
Ross Ranch 6 Battery
Project Address:

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684140. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684140 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684140

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH06 A	S	01.08.2021 11:23	8 ft	684140-001

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CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Ross Ranch 6 Battery

Project ID: *TE012920159*
Work Order Number(s): *684140*

Report Date: *01.14.2021*
Date Received: *01.08.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684140

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH06 A**	Matrix:	Soil	Date Received:	01.08.2021 16:50
Lab Sample Id:	684140-001	Date Collected:	01.08.2021 11:23	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.11.2021 12:00	% Moisture:	
Seq Number:	3147501			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**448**	9.92	mg/kg	01.11.2021 22:09		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 16:03	% Moisture:	
Seq Number:	3147632			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.12.2021 18:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.12.2021 18:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.12.2021 18:13	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	01.12.2021 18:13	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.12.2021 18:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	01.12.2021 18:13	
o-Terphenyl	84-15-1	122	%	70-135	01.12.2021 18:13	

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Certificate of Analytical Results 684140

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH06 A**	Matrix:	Soil	Date Received:	01.08.2021 16:50
Lab Sample Id:	684140-001	Date Collected:	01.08.2021 11:23	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.11.2021 17:21	% Moisture:	
Seq Number:	3147500			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.12.2021 02:54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.12.2021 02:54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.12.2021 02:54	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.12.2021 02:54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.12.2021 02:54	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.12.2021 02:54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.12.2021 02:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	01.12.2021 02:54	
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.12.2021 02:54	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 684140

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LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Solid — Date Prep: 01.11.2021
MB Sample Id: 7718893-1-BLK — LCS Sample Id: 7718893-1-BKS — LCSD Sample Id: 7718893-1-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	256	102	258	103	90-110	1	20	mg/kg	01.11.2021 19:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Soil — Date Prep: 01.11.2021
Parent Sample Id: 684049-001 — MS Sample Id: 684049-001 S — MSD Sample Id: 684049-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5210	200	5410	100	5410	99	90-110	0	20	mg/kg	01.11.2021 19:57	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Soil — Date Prep: 01.11.2021
Parent Sample Id: 684049-011 — MS Sample Id: 684049-011 S — MSD Sample Id: 684049-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	15.3	199	214	100	215	100	90-110	0	20	mg/kg	01.11.2021 21:21	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK — LCS Sample Id: 7719038-1-BKS — LCSD Sample Id: 7719038-1-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	1020	102	1020	102	70-135	0	35	mg/kg	01.12.2021 17:33	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1000	100	70-135	6	35	mg/kg	01.12.2021 17:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		93		108		70-135	%	01.12.2021 17:33
o-Terphenyl	85		107		93		70-135	%	01.12.2021 17:33

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.12.2021 17:13	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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QC Summary 684140

LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147632 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	1190	118	1190	119	70-135	0	35	mg/kg	01.12.2021 18:34	
Diesel Range Organics (DRO)	<50.3	1010	1100	109	1050	105	70-135	5	35	mg/kg	01.12.2021 18:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		113		70-135	%	01.12.2021 18:34
o-Terphenyl	114		106		70-135	%	01.12.2021 18:34

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147500 Matrix: Solid Date Prep: 01.11.2021
MB Sample Id: 7718953-1-BLK LCS Sample Id: 7718953-1-BKS LCSD Sample Id: 7718953-1-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	0.0985	99	0.0939	94	70-130	5	35	mg/kg	01.12.2021 00:49	
Toluene	<0.00200	0.100	0.0946	95	0.0899	90	70-130	5	35	mg/kg	01.12.2021 00:49	
Ethylbenzene	<0.00200	0.100	0.0954	95	0.0945	95	71-129	1	35	mg/kg	01.12.2021 00:49	
m,p-Xylenes	<0.00400	0.200	0.199	100	0.195	98	70-135	2	35	mg/kg	01.12.2021 00:49	
o-Xylene	<0.00200	0.100	0.0989	99	0.0960	96	71-133	3	35	mg/kg	01.12.2021 00:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		100		99		70-130	%	01.12.2021 00:49
4-Bromofluorobenzene	121		108		111		70-130	%	01.12.2021 00:49

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147500 Matrix: Soil Date Prep: 01.11.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.116	115	0.0889	89	70-130	26	35	mg/kg	01.12.2021 01:34	
Toluene	<0.00202	0.101	0.111	110	0.0836	84	70-130	28	35	mg/kg	01.12.2021 01:34	
Ethylbenzene	<0.00202	0.101	0.0962	95	0.0965	97	71-129	0	35	mg/kg	01.12.2021 01:34	
m,p-Xylenes	<0.00403	0.202	0.238	118	0.190	95	70-135	22	35	mg/kg	01.12.2021 01:34	
o-Xylene	<0.00202	0.101	0.116	115	0.0914	91	71-133	24	35	mg/kg	01.12.2021 01:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		86		70-130	%	01.12.2021 01:34
4-Bromofluorobenzene	112		105		70-130	%	01.12.2021 01:34

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 684140

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
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Page 1 of 1

Project Manager:	Joseph Hernandez	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	tmorrissey@ltenv.com kjennings@ltenv.com tcasey@ltenv.com

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) 6 Bell Hay	Turn Around	
Project Number:	TE 012 920 059	Routine	☒
P.O. Number:	113887 1091	Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	0.6/0.4	Thermometer ID	
Received Intact:	Yes No	TNM-007	
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	1

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)
CH06A	S	1-08-21	1123	8'	1	X	X	X

Work Order Notes

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

Sample Comments

Discrete

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
Travis Casey	Clive Cuffo	1-8-21 1650	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 01.08.2021 04.50.00 PM

Work Order #: 684140

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 *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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.11.2021

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 01.13.2021

Jessica Kramer

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Certificate of Analysis Summary 684142

LT Environmental, Inc., Arvada, CO

Project Name: Ross Ranch 6 Battery

Project Id: TE012920159
Contact: Joseph Hernandez
Project Location:

Date Received in Lab: Fri 01.08.2021 16:50
Report Date: 01.14.2021 09:44
Project Manager: Jessica Kramer

Analysis Requested								
	Lab Id:	684142-001						
	Field Id:	CH07						
	Depth:	2- ft						
	Matrix:	SOIL						
	Sampled:	01.08.2021 12:30						
BTEX by EPA 8021B	***Extracted:***	01.11.2021 17:21						
	Analyzed:	01.12.2021 10:42						
	Units/RL:	mg/kg	RL					
Benzene		<0.00200	0.00200					
Toluene		<0.00200	0.00200					
Ethylbenzene		<0.00200	0.00200					
m,p-Xylenes		<0.00399	0.00399					
o-Xylene		<0.00200	0.00200					
Total Xylenes		<0.00200	0.00200					
Total BTEX		<0.00200	0.00200					
Chloride by EPA 300	***Extracted:***	01.11.2021 12:00						
	Analyzed:	01.11.2021 22:15						
	Units/RL:	mg/kg	RL					
Chloride		113	9.92					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 16:03						
	Analyzed:	01.12.2021 19:14						
	Units/RL:	mg/kg	RL					
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8					
Diesel Range Organics (DRO)		<49.8	49.8					
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8					
Total GRO-DRO		<49.8	49.8					
Total TPH		<49.8	49.8					

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 684142

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

Ross Ranch 6 Battery

TE012920159

01.14.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.14.2021

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

Reference: Eurofins Xenco, LLC Report No(s): **684142**
Ross Ranch 6 Battery
Project Address:

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684142. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684142 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684142

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH07	S	01.08.2021 12:30	2 ft	684142-001

CASE NARRATIVE

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Client Name: LT Environmental, Inc.

Project Name: Ross Ranch 6 Battery

Project ID: *TE012920159*
Work Order Number(s): *684142*

Report Date: *01.14.2021*
Date Received: *01.08.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684142

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH07**	Matrix:	Soil	Date Received:	01.08.2021 16:50
Lab Sample Id:	684142-001	Date Collected:	01.08.2021 12:30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.11.2021 12:00	% Moisture:	
Seq Number:	3147501			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**113**	9.92	mg/kg	01.11.2021 22:15		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 16:03	% Moisture:	
Seq Number:	3147632			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.12.2021 19:14	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.12.2021 19:14	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.12.2021 19:14	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	01.12.2021 19:14	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.12.2021 19:14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-135	01.12.2021 19:14	
o-Terphenyl	84-15-1	107	%	70-135	01.12.2021 19:14	

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Certificate of Analytical Results 684142

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH07**	Matrix:	Soil	Date Received:	01.08.2021 16:50
Lab Sample Id:	684142-001	Date Collected:	01.08.2021 12:30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.11.2021 17:21	% Moisture:	
Seq Number:	3147500			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.12.2021 10:42	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.12.2021 10:42	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.12.2021 10:42	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.12.2021 10:42	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.12.2021 10:42	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.12.2021 10:42	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.12.2021 10:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.12.2021 10:42	
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.12.2021 10:42	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 684142

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LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Solid — Date Prep: 01.11.2021
MB Sample Id: 7718893-1-BLK — LCS Sample Id: 7718893-1-BKS — LCSD Sample Id: 7718893-1-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	256	102	258	103	90-110	1	20	mg/kg	01.11.2021 19:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Soil — Date Prep: 01.11.2021
Parent Sample Id: 684049-001 — MS Sample Id: 684049-001 S — MSD Sample Id: 684049-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5210	200	5410	100	5410	99	90-110	0	20	mg/kg	01.11.2021 19:57	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Soil — Date Prep: 01.11.2021
Parent Sample Id: 684049-011 — MS Sample Id: 684049-011 S — MSD Sample Id: 684049-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	15.3	199	214	100	215	100	90-110	0	20	mg/kg	01.11.2021 21:21	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK — LCS Sample Id: 7719038-1-BKS — LCSD Sample Id: 7719038-1-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	1020	102	1020	102	70-135	0	35	mg/kg	01.12.2021 17:33	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1000	100	70-135	6	35	mg/kg	01.12.2021 17:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		93		108		70-135	%	01.12.2021 17:33
o-Terphenyl	85		107		93		70-135	%	01.12.2021 17:33

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.12.2021 17:13	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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QC Summary 684142

LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147632 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	1190	118	1190	119	70-135	0	35	mg/kg	01.12.2021 18:34	
Diesel Range Organics (DRO)	<50.3	1010	1100	109	1050	105	70-135	5	35	mg/kg	01.12.2021 18:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		113		70-135	%	01.12.2021 18:34
o-Terphenyl	114		106		70-135	%	01.12.2021 18:34

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147500 Matrix: Solid Date Prep: 01.11.2021
MB Sample Id: 7718953-1-BLK LCS Sample Id: 7718953-1-BKS LCSD Sample Id: 7718953-1-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	0.0985	99	0.0939	94	70-130	5	35	mg/kg	01.12.2021 00:49	
Toluene	<0.00200	0.100	0.0946	95	0.0899	90	70-130	5	35	mg/kg	01.12.2021 00:49	
Ethylbenzene	<0.00200	0.100	0.0954	95	0.0945	95	71-129	1	35	mg/kg	01.12.2021 00:49	
m,p-Xylenes	<0.00400	0.200	0.199	100	0.195	98	70-135	2	35	mg/kg	01.12.2021 00:49	
o-Xylene	<0.00200	0.100	0.0989	99	0.0960	96	71-133	3	35	mg/kg	01.12.2021 00:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		100		99		70-130	%	01.12.2021 00:49
4-Bromofluorobenzene	121		108		111		70-130	%	01.12.2021 00:49

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147500 Matrix: Soil Date Prep: 01.11.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.116	115	0.0889	89	70-130	26	35	mg/kg	01.12.2021 01:34	
Toluene	<0.00202	0.101	0.111	110	0.0836	84	70-130	28	35	mg/kg	01.12.2021 01:34	
Ethylbenzene	<0.00202	0.101	0.0962	95	0.0965	97	71-129	0	35	mg/kg	01.12.2021 01:34	
m,p-Xylenes	<0.00403	0.202	0.238	118	0.190	95	70-135	22	35	mg/kg	01.12.2021 01:34	
o-Xylene	<0.00202	0.101	0.116	115	0.0914	91	71-133	24	35	mg/kg	01.12.2021 01:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		86		70-130	%	01.12.2021 01:34
4-Bromofluorobenzene	112		105		70-130	%	01.12.2021 01:34

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 684142

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

Project Manager:	Joseph Hernandez	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	tmorrissey@ltenv.com kjennings@ltenv.com tcasey@ltenv.com

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) CB Battery	Turn Around	
Project Number:	IE012920159	Routine	☒
P.O. Number:	1138871001	Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	2.6/0.4	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:	1	

ANALYSIS REQUEST

Work Order Notes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
CH07	S	1-08-21	1239	2'	1	X	X	X	Discrete

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
Travis Casey	Cloe Cuffa	1-8-21 1650	2		
			4		
			6		

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 01.08.2021 04.50.00 PM

Work Order #: 684142

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 *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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.11.2021

Checklist reviewed by: Jessica Kramer Date: 01.11.2021

Jessica Kramer

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Certificate of Analysis Summary 684143

LT Environmental, Inc., Arvada, CO

Project Name: Ross Ranch 6 Battery

Project Id: TE012920159
Contact: Joseph Hernandez
Project Location:

Date Received in Lab: Fri 01.08.2021 16:50
Report Date: 01.14.2021 09:46
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684143-001					
	Field Id:	CH07 A					
	Depth:	8- ft					
	Matrix:	SOIL					
	Sampled:	01.08.2021 13:09					
BTEX by EPA 8021B	***Extracted:***	01.11.2021 17:21					
	Analyzed:	01.12.2021 10:20					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00401 0.00401					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Chloride by EPA 300	***Extracted:***	01.11.2021 12:00					
	Analyzed:	01.11.2021 22:21					
	Units/RL:	mg/kg RL					
Chloride		51.0 10.0					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 16:03					
	Analyzed:	01.12.2021 19:34					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8					
Diesel Range Organics (DRO)		<49.8 49.8					
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8					
Total GRO-DRO		<49.8 49.8					
Total TPH		<49.8 49.8					

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 684143

for

LT Environmental, Inc.

Project Manager: Joseph Hernandez

Ross Ranch 6 Battery

TE012920159

01.14.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.14.2021

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

Reference: Eurofins Xenco, LLC Report No(s): **684143**
Ross Ranch 6 Battery
Project Address:

Joseph Hernandez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684143. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684143 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684143

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH07 A	S	01.08.2021 13:09	8 ft	684143-001

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CASE NARRATIVE

Client Name: LT Environmental, Inc.

Project Name: Ross Ranch 6 Battery

Project ID: *TE012920159*
Work Order Number(s): *684143*

Report Date: *01.14.2021*
Date Received: *01.08.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684143

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH07 A**	Matrix:	Soil	Date Received:	01.08.2021 16:50
Lab Sample Id:	684143-001	Date Collected:	01.08.2021 13:09	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.11.2021 12:00	% Moisture:	
Seq Number:	3147501			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**51.0**	10.0	mg/kg	01.11.2021 22:21		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 16:03	% Moisture:	
Seq Number:	3147632			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	01.12.2021 19:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	01.12.2021 19:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	01.12.2021 19:34	U	1
Total GRO-DRO	PHC628	<49.8	49.8	mg/kg	01.12.2021 19:34	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	01.12.2021 19:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-135	01.12.2021 19:34	
o-Terphenyl	84-15-1	98	%	70-135	01.12.2021 19:34	

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Certificate of Analytical Results 684143

LT Environmental, Inc., Arvada, CO

Ross Ranch 6 Battery

Sample Id:	**CH07 A**	Matrix:	Soil	Date Received:	01.08.2021 16:50
Lab Sample Id:	684143-001	Date Collected:	01.08.2021 13:09	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.11.2021 17:21	% Moisture:	
Seq Number:	3147500			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.12.2021 10:20	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.12.2021 10:20	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.12.2021 10:20	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.12.2021 10:20	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.12.2021 10:20	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.12.2021 10:20	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.12.2021 10:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	01.12.2021 10:20	
4-Bromofluorobenzene	460-00-4	124	%	70-130	01.12.2021 10:20	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 684143

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LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Solid — Date Prep: 01.11.2021
MB Sample Id: 7718893-1-BLK — LCS Sample Id: 7718893-1-BKS — LCSD Sample Id: 7718893-1-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	256	102	258	103	90-110	1	20	mg/kg	01.11.2021 19:40	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Soil — Date Prep: 01.11.2021
Parent Sample Id: 684049-001 — MS Sample Id: 684049-001 S — MSD Sample Id: 684049-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	5210	200	5410	100	5410	99	90-110	0	20	mg/kg	01.11.2021 19:57	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147501 — Matrix: Soil — Date Prep: 01.11.2021
Parent Sample Id: 684049-011 — MS Sample Id: 684049-011 S — MSD Sample Id: 684049-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	15.3	199	214	100	215	100	90-110	0	20	mg/kg	01.11.2021 21:21	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK — LCS Sample Id: 7719038-1-BKS — LCSD Sample Id: 7719038-1-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	1020	102	1020	102	70-135	0	35	mg/kg	01.12.2021 17:33	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1000	100	70-135	6	35	mg/kg	01.12.2021 17:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		93		108		70-135	%	01.12.2021 17:33
o-Terphenyl	85		107		93		70-135	%	01.12.2021 17:33

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.12.2021 17:13	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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QC Summary 684143

LT Environmental, Inc.

Ross Ranch 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147632 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	1190	118	1190	119	70-135	0	35	mg/kg	01.12.2021 18:34	
Diesel Range Organics (DRO)	<50.3	1010	1100	109	1050	105	70-135	5	35	mg/kg	01.12.2021 18:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		113		70-135	%	01.12.2021 18:34
o-Terphenyl	114		106		70-135	%	01.12.2021 18:34

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147500 Matrix: Solid Date Prep: 01.11.2021
MB Sample Id: 7718953-1-BLK LCS Sample Id: 7718953-1-BKS LCSD Sample Id: 7718953-1-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	0.0985	99	0.0939	94	70-130	5	35	mg/kg	01.12.2021 00:49	
Toluene	<0.00200	0.100	0.0946	95	0.0899	90	70-130	5	35	mg/kg	01.12.2021 00:49	
Ethylbenzene	<0.00200	0.100	0.0954	95	0.0945	95	71-129	1	35	mg/kg	01.12.2021 00:49	
m,p-Xylenes	<0.00400	0.200	0.199	100	0.195	98	70-135	2	35	mg/kg	01.12.2021 00:49	
o-Xylene	<0.00200	0.100	0.0989	99	0.0960	96	71-133	3	35	mg/kg	01.12.2021 00:49	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		100		99		70-130	%	01.12.2021 00:49
4-Bromofluorobenzene	121		108		111		70-130	%	01.12.2021 00:49

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147500 Matrix: Soil Date Prep: 01.11.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.116	115	0.0889	89	70-130	26	35	mg/kg	01.12.2021 01:34	
Toluene	<0.00202	0.101	0.111	110	0.0836	84	70-130	28	35	mg/kg	01.12.2021 01:34	
Ethylbenzene	<0.00202	0.101	0.0962	95	0.0965	97	71-129	0	35	mg/kg	01.12.2021 01:34	
m,p-Xylenes	<0.00403	0.202	0.238	118	0.190	95	70-135	22	35	mg/kg	01.12.2021 01:34	
o-Xylene	<0.00202	0.101	0.116	115	0.0914	91	71-133	24	35	mg/kg	01.12.2021 01:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		86		70-130	%	01.12.2021 01:34
4-Bromofluorobenzene	112		105		70-130	%	01.12.2021 01:34

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 684143

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

Project Manager:	Joseph Hernandez	Bill to: (if different)	Kyle Littrell
Company Name:	LT Environmental, Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A St. Bldg 1, Unit 222	Address:	3104 E Greene St.
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	tmorrissey@ltenv.com kjennings@ltenv.com tcasey@ltenv.com

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) G Batt	Turn Around	
Project Number:	TE012920154	Routine	☒
P.O. Number:	11388 71001	Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	0.6/0.4	Thermometer ID	TNM007
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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
CH07A	S	1-08-21	1309	8'	1	X	X	X	Discrete

Work Order Notes

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

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
Travis Casey		1/8/21 16:50	2		
			4		
			6		

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.

Date/ Time Received: 01.08.2021 04.50.00 PM

Work Order #: 684143

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 *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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.11.2021

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 01.11.2021

Jessica Kramer

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Certificate of Analysis Summary 684371

WSP USA, Dallas, TX

Project Name: Ross Ranch (11/28/20) 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 01.12.2021 13:30
Report Date: 01.15.2021 09:26
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684371-001					
	Field Id:	CH08					
	Depth:	1- ft					
	Matrix:	SOIL					
	Sampled:	01.11.2021 09:49					
BTEX by EPA 8021B	***Extracted:***	01.13.2021 15:23					
	Analyzed:	01.14.2021 09:18					
	Units/RL:	mg/kg RL					
Benzene		<0.00202 0.00202					
Toluene		<0.00202 0.00202					
Ethylbenzene		<0.00202 0.00202					
m,p-Xylenes		<0.00403 0.00403					
o-Xylene		<0.00202 0.00202					
Total Xylenes		<0.00202 0.00202					
Total BTEX		<0.00202 0.00202					
Chloride by EPA 300	***Extracted:***	01.12.2021 16:30					
	Analyzed:	01.12.2021 19:28					
	Units/RL:	mg/kg RL					
Chloride		315 9.90					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 18:00					
	Analyzed:	01.13.2021 03:09					
	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					

BRL - Below Reporting Limit

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

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Analytical Report 684371

for

WSP USA

Project Manager: Dan Moir

Ross Ranch (11/28/20) 6 Battery

TE012920159

01.15.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.15.2021

Project Manager: **Dan Moir**
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **684371**
Ross Ranch (11/28/20) 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684371. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684371 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684371

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH08	S	01.11.2021 09:49	1 ft	684371-001

CASE NARRATIVE

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Client Name: WSP USA

Project Name: Ross Ranch (11/28/20) 6 Battery

Project ID:	*TE012920159*	Report Date:	*01.15.2021*
Work Order Number(s):	*684371*	Date Received:	*01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684371

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH08**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684371-001	Date Collected:	01.11.2021 09:49	Sample Depth:	1 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.12.2021 16:30	% Moisture:	
Seq Number:	3147631			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**315**	9.90	mg/kg	01.12.2021 19:28		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 18:00	% Moisture:	
Seq Number:	3147633			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.13.2021 03:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.13.2021 03:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.13.2021 03:09	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	01.13.2021 03:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.13.2021 03:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-135	01.13.2021 03:09	
o-Terphenyl	84-15-1	112	%	70-135	01.13.2021 03:09	

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Certificate of Analytical Results 684371

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH08**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684371-001	Date Collected:	01.11.2021 09:49	Sample Depth:	1 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.13.2021 15:23	% Moisture:	
Seq Number:	3147860			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	01.14.2021 09:18	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	01.14.2021 09:18	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	01.14.2021 09:18	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	01.14.2021 09:18	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	01.14.2021 09:18	U	1
Total Xylenes	1330-20-7	<0.00202	0.00202	mg/kg	01.14.2021 09:18	U	1
Total BTEX		<0.00202	0.00202	mg/kg	01.14.2021 09:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	01.14.2021 09:18	
4-Bromofluorobenzene	460-00-4	115	%	70-130	01.14.2021 09:18	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 684371

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719043-1-BLK — LCS Sample Id: 7719043-1-BKS — LCSD Sample Id: 7719043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	256	102	90-110	0	20	mg/kg	01.12.2021 19:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684371-001 — MS Sample Id: 684371-001 S — MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	199	525	106	527	106	90-110	0	20	mg/kg	01.12.2021 19:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684392-001 — MS Sample Id: 684392-001 S — MSD Sample Id: 684392-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.6	200	227	102	227	102	90-110	0	20	mg/kg	01.12.2021 20:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147633 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719039-1-BLK — LCS Sample Id: 7719039-1-BKS — LCSD Sample Id: 7719039-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1100	110	70-135	5	35	mg/kg	01.13.2021 02:29	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	1180	118	70-135	16	35	mg/kg	01.13.2021 02:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		84		114		70-135	%	01.13.2021 02:29
o-Terphenyl	88		89		96		70-135	%	01.13.2021 02:29

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147633 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719039-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.13.2021 02:10	

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

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QC Summary 684371

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147633 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1190	119	1030	103	70-135	14	35	mg/kg	01.13.2021 03:28	
Diesel Range Organics (DRO)	<50.2	1000	1090	109	1170	117	70-135	7	35	mg/kg	01.13.2021 03:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		117		70-135	%	01.13.2021 03:28
o-Terphenyl	108		106		70-135	%	01.13.2021 03:28

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Solid Date Prep: 01.13.2021
MB Sample Id: 7719047-1-BLK LCS Sample Id: 7719047-1-BKS LCSD Sample Id: 7719047-1-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	0.0935	94	0.100	100	70-130	7	35	mg/kg	01.14.2021 06:51	
Toluene	<0.00200	0.100	0.0883	88	0.0913	91	70-130	3	35	mg/kg	01.14.2021 06:51	
Ethylbenzene	<0.00200	0.100	0.0914	91	0.0953	95	71-129	4	35	mg/kg	01.14.2021 06:51	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.191	96	70-135	5	35	mg/kg	01.14.2021 06:51	
o-Xylene	<0.00200	0.100	0.0936	94	0.0965	97	71-133	3	35	mg/kg	01.14.2021 06:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		101		70-130	%	01.14.2021 06:51
4-Bromofluorobenzene	111		110		113		70-130	%	01.14.2021 06:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Soil Date Prep: 01.13.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 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	0.0976	98	0.0954	94	70-130	2	35	mg/kg	01.14.2021 07:36	
Toluene	<0.00200	0.100	0.0923	92	0.0879	87	70-130	5	35	mg/kg	01.14.2021 07:36	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0891	88	71-129	6	35	mg/kg	01.14.2021 07:36	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.181	90	70-135	7	35	mg/kg	01.14.2021 07:36	
o-Xylene	<0.00200	0.100	0.0973	97	0.0913	90	71-133	6	35	mg/kg	01.14.2021 07:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	01.14.2021 07:36
4-Bromofluorobenzene	108		106		70-130	%	01.14.2021 07:36

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 684371

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)

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

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) 6 Battery	Turn Around	
Project Number:	TE012920159	Routine	☐
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	1.4/1.2	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:	1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH08	S	1/11/2021	949	1'	1	X	X	X

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
		1-12-21 1330	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.12.2021 01.30.00 PM

Work Order #: 684371

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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.12.2021

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 01.13.2021

Jessica Kramer

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Certificate of Analysis Summary 684373

WSP USA, Dallas, TX

Project Name: Ross Ranch (11/28/20) 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 01.12.2021 13:30
Report Date: 01.15.2021 09:27
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684373-001					
	Field Id:	CH08 A					
	Depth:	2- ft					
	Matrix:	SOIL					
	Sampled:	01.11.2021 10:05					
BTEX by EPA 8021B	***Extracted:***	01.13.2021 15:23					
	Analyzed:	01.14.2021 09:41					
	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:***	01.12.2021 16:30					
	Analyzed:	01.12.2021 19:45					
	Units/RL:	mg/kg RL					
Chloride		105 10.0					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 18:00					
	Analyzed:	01.13.2021 04:08					
	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					

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 684373

for

WSP USA

Project Manager: Dan Moir

Ross Ranch (11/28/20) 6 Battery

TE012920159

01.15.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins | Environment Testing Xenco

01.15.2021

Project Manager: **Dan Moir**
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **684373**
Ross Ranch (11/28/20) 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684373. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684373 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684373

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH08 A	S	01.11.2021 10:05	2 ft	684373-001

CASE NARRATIVE

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Client Name: WSP USA

Project Name: Ross Ranch (11/28/20) 6 Battery

Project ID:	*TE012920159*	Report Date:	*01.15.2021*
Work Order Number(s):	*684373*	Date Received:	*01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684373

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH08 A**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684373-001	Date Collected:	01.11.2021 10:05	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.12.2021 16:30	% Moisture:	
Seq Number:	3147631			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**105**	10.0	mg/kg	01.12.2021 19:45		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 18:00	% Moisture:	
Seq Number:	3147633			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.13.2021 04:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.13.2021 04:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.13.2021 04:08	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	01.13.2021 04:08	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.13.2021 04:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	01.13.2021 04:08	
o-Terphenyl	84-15-1	106	%	70-135	01.13.2021 04:08	

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Certificate of Analytical Results 684373

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH08 A**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684373-001	Date Collected:	01.11.2021 10:05	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.13.2021 15:23	% Moisture:	
Seq Number:	3147860			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.14.2021 09:41	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.14.2021 09:41	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.14.2021 09:41	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.14.2021 09:41	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.14.2021 09:41	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.14.2021 09:41	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.14.2021 09:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	01.14.2021 09:41	
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.14.2021 09:41	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 684373

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WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719043-1-BLK — LCS Sample Id: 7719043-1-BKS — LCSD Sample Id: 7719043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	256	102	90-110	0	20	mg/kg	01.12.2021 19:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684371-001 — MS Sample Id: 684371-001 S — MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	199	525	106	527	106	90-110	0	20	mg/kg	01.12.2021 19:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684392-001 — MS Sample Id: 684392-001 S — MSD Sample Id: 684392-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.6	200	227	102	227	102	90-110	0	20	mg/kg	01.12.2021 20:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147633 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719039-1-BLK — LCS Sample Id: 7719039-1-BKS — LCSD Sample Id: 7719039-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1100	110	70-135	5	35	mg/kg	01.13.2021 02:29	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	1180	118	70-135	16	35	mg/kg	01.13.2021 02:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		84		114		70-135	%	01.13.2021 02:29
o-Terphenyl	88		89		96		70-135	%	01.13.2021 02:29

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147633 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719039-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.13.2021 02:10	

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

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QC Summary 684373

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147633 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1190	119	1030	103	70-135	14	35	mg/kg	01.13.2021 03:28	
Diesel Range Organics (DRO)	<50.2	1000	1090	109	1170	117	70-135	7	35	mg/kg	01.13.2021 03:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		117		70-135	%	01.13.2021 03:28
o-Terphenyl	108		106		70-135	%	01.13.2021 03:28

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Solid Date Prep: 01.13.2021
MB Sample Id: 7719047-1-BLK LCS Sample Id: 7719047-1-BKS LCSD Sample Id: 7719047-1-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	0.0935	94	0.100	100	70-130	7	35	mg/kg	01.14.2021 06:51	
Toluene	<0.00200	0.100	0.0883	88	0.0913	91	70-130	3	35	mg/kg	01.14.2021 06:51	
Ethylbenzene	<0.00200	0.100	0.0914	91	0.0953	95	71-129	4	35	mg/kg	01.14.2021 06:51	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.191	96	70-135	5	35	mg/kg	01.14.2021 06:51	
o-Xylene	<0.00200	0.100	0.0936	94	0.0965	97	71-133	3	35	mg/kg	01.14.2021 06:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		101		70-130	%	01.14.2021 06:51
4-Bromofluorobenzene	111		110		113		70-130	%	01.14.2021 06:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Soil Date Prep: 01.13.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 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	0.0976	98	0.0954	94	70-130	2	35	mg/kg	01.14.2021 07:36	
Toluene	<0.00200	0.100	0.0923	92	0.0879	87	70-130	5	35	mg/kg	01.14.2021 07:36	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0891	88	71-129	6	35	mg/kg	01.14.2021 07:36	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.181	90	70-135	7	35	mg/kg	01.14.2021 07:36	
o-Xylene	<0.00200	0.100	0.0973	97	0.0913	90	71-133	6	35	mg/kg	01.14.2021 07:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	01.14.2021 07:36
4-Bromofluorobenzene	108		106		70-130	%	01.14.2021 07:36

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 684373

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

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

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) 6 Battery	Turn Around	
Project Number:	TE012920159	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	1.4/1.2	Thermometer ID	
Received Intact:	(Yes) No	T-WM-007	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH08A	S	1/11/2021	1005	2'	1	X	X	X

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
		1-12-21 1330	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.12.2021 01.30.00 PM

Work Order #: 684373

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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.12.2021

Checklist reviewed by: Jessica Kramer Date: 01.13.2021

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 684375

WSP USA, Dallas, TX

Project Name: Ross Ranch (11/28/20) 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 01.12.2021 13:30
Report Date: 01.15.2021 09:27
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684375-001					
	Field Id:	CH09					
	Depth:	2- ft					
	Matrix:	SOIL					
	Sampled:	01.11.2021 10:33					
BTEX by EPA 8021B	***Extracted:***	01.13.2021 15:23					
	Analyzed:	01.14.2021 10:03					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00399 0.00399					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Chloride by EPA 300	***Extracted:***	01.12.2021 16:30					
	Analyzed:	01.12.2021 19:51					
	Units/RL:	mg/kg RL					
Chloride		125 50.1					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 18:00					
	Analyzed:	01.13.2021 04:27					
	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					

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Analytical Report 684375

for

WSP USA

Project Manager: Dan Moir

Ross Ranch (11/28/20) 6 Battery

TE012920159

01.15.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins | Environment Testing Xenco

01.15.2021

Project Manager: **Dan Moir**
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **684375**
Ross Ranch (11/28/20) 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684375. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684375 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684375

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH09	S	01.11.2021 10:33	2 ft	684375-001

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: WSP USA

Project Name: Ross Ranch (11/28/20) 6 Battery

Project ID:	*TE012920159*	Report Date:	*01.15.2021*
Work Order Number(s):	*684375*	Date Received:	*01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684375

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH09**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684375-001	Date Collected:	01.11.2021 10:33	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.12.2021 16:30	% Moisture:	
Seq Number:	3147631			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**125**	50.1	mg/kg	01.12.2021 19:51		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 18:00	% Moisture:	
Seq Number:	3147633			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.13.2021 04:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.13.2021 04:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.13.2021 04:27	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	01.13.2021 04:27	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.13.2021 04:27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	01.13.2021 04:27	
o-Terphenyl	84-15-1	118	%	70-135	01.13.2021 04:27	

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Certificate of Analytical Results 684375

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH09**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684375-001	Date Collected:	01.11.2021 10:33	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.13.2021 15:23	% Moisture:	
Seq Number:	3147860			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.14.2021 10:03	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.14.2021 10:03	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.14.2021 10:03	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.14.2021 10:03	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.14.2021 10:03	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.14.2021 10:03	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.14.2021 10:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	01.14.2021 10:03	
4-Bromofluorobenzene	460-00-4	123	%	70-130	01.14.2021 10:03	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 684375

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WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719043-1-BLK — LCS Sample Id: 7719043-1-BKS — LCSD Sample Id: 7719043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	256	102	90-110	0	20	mg/kg	01.12.2021 19:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684371-001 — MS Sample Id: 684371-001 S — MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	199	525	106	527	106	90-110	0	20	mg/kg	01.12.2021 19:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684392-001 — MS Sample Id: 684392-001 S — MSD Sample Id: 684392-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.6	200	227	102	227	102	90-110	0	20	mg/kg	01.12.2021 20:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147633 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719039-1-BLK — LCS Sample Id: 7719039-1-BKS — LCSD Sample Id: 7719039-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1100	110	70-135	5	35	mg/kg	01.13.2021 02:29	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	1180	118	70-135	16	35	mg/kg	01.13.2021 02:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		84		114		70-135	%	01.13.2021 02:29
o-Terphenyl	88		89		96		70-135	%	01.13.2021 02:29

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147633 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719039-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.13.2021 02:10	

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

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QC Summary 684375

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147633 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1190	119	1030	103	70-135	14	35	mg/kg	01.13.2021 03:28	
Diesel Range Organics (DRO)	<50.2	1000	1090	109	1170	117	70-135	7	35	mg/kg	01.13.2021 03:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		117		70-135	%	01.13.2021 03:28
o-Terphenyl	108		106		70-135	%	01.13.2021 03:28

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Solid Date Prep: 01.13.2021
MB Sample Id: 7719047-1-BLK LCS Sample Id: 7719047-1-BKS LCSD Sample Id: 7719047-1-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	0.0935	94	0.100	100	70-130	7	35	mg/kg	01.14.2021 06:51	
Toluene	<0.00200	0.100	0.0883	88	0.0913	91	70-130	3	35	mg/kg	01.14.2021 06:51	
Ethylbenzene	<0.00200	0.100	0.0914	91	0.0953	95	71-129	4	35	mg/kg	01.14.2021 06:51	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.191	96	70-135	5	35	mg/kg	01.14.2021 06:51	
o-Xylene	<0.00200	0.100	0.0936	94	0.0965	97	71-133	3	35	mg/kg	01.14.2021 06:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		101		70-130	%	01.14.2021 06:51
4-Bromofluorobenzene	111		110		113		70-130	%	01.14.2021 06:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Soil Date Prep: 01.13.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 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	0.0976	98	0.0954	94	70-130	2	35	mg/kg	01.14.2021 07:36	
Toluene	<0.00200	0.100	0.0923	92	0.0879	87	70-130	5	35	mg/kg	01.14.2021 07:36	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0891	88	71-129	6	35	mg/kg	01.14.2021 07:36	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.181	90	70-135	7	35	mg/kg	01.14.2021 07:36	
o-Xylene	<0.00200	0.100	0.0973	97	0.0913	90	71-133	6	35	mg/kg	01.14.2021 07:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	01.14.2021 07:36
4-Bromofluorobenzene	108		106		70-130	%	01.14.2021 07:36

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

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)

Work Order No: 684375

www.xenco.com Page 1 of 1

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

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) 6 Battery	Turn Around	
Project Number:	TE012920159	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	1.4/1.2	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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH09	S	1/11/2021	1033	2'	1	X	X	X

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			1-12-21 1330	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.12.2021 01.30.00 PM

Work Order #: 684375

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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.12.2021

Checklist reviewed by: Jessica Kramer Date: 01.13.2021

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 684377

WSP USA, Dallas, TX

Project Name: Ross Ranch (11/28/20) 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 01.12.2021 13:30
Report Date: 01.15.2021 09:28
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684377-001					
	Field Id:	CH09A					
	Depth:	8- ft					
	Matrix:	SOIL					
	Sampled:	01.11.2021 11:20					
BTEX by EPA 8021B	***Extracted:***	01.13.2021 15:23					
	Analyzed:	01.14.2021 10:26					
	Units/RL:	mg/kg RL					
Benzene		<0.00201 0.00201					
Toluene		<0.00201 0.00201					
Ethylbenzene		<0.00201 0.00201					
m,p-Xylenes		<0.00402 0.00402					
o-Xylene		<0.00201 0.00201					
Total Xylenes		<0.00201 0.00201					
Total BTEX		<0.00201 0.00201					
Chloride by EPA 300	***Extracted:***	01.12.2021 16:30					
	Analyzed:	01.12.2021 19:57					
	Units/RL:	mg/kg RL					
Chloride		26.5 10.0					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 18:00					
	Analyzed:	01.13.2021 04:46					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2					
Diesel Range Organics (DRO)		<50.2 50.2					
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2					
Total GRO-DRO		<50.2 50.2					
Total TPH		<50.2 50.2					

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Analytical Report 684377

for

WSP USA

Project Manager: Dan Moir

Ross Ranch (11/28/20) 6 Battery

TE012920159

01.15.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.15.2021

Project Manager: **Dan Moir**
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **684377**
Ross Ranch (11/28/20) 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684377. 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.

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684377

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH09A	S	01.11.2021 11:20	8 ft	684377-001

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: WSP USA

Project Name: Ross Ranch (11/28/20) 6 Battery

Project ID: *TE012920159*
Work Order Number(s): *684377*

Report Date: *01.15.2021*
Date Received: *01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684377

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH09A**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684377-001	Date Collected:	01.11.2021 11:20	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.12.2021 16:30	% Moisture:	
Seq Number:	3147631			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**26.5**	10.0	mg/kg	01.12.2021 19:57		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 18:00	% Moisture:	
Seq Number:	3147633			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.13.2021 04:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.13.2021 04:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.13.2021 04:46	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	01.13.2021 04:46	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.13.2021 04:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-135	01.13.2021 04:46	
o-Terphenyl	84-15-1	122	%	70-135	01.13.2021 04:46	

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Certificate of Analytical Results 684377

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH09A**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684377-001	Date Collected:	01.11.2021 11:20	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.13.2021 15:23	% Moisture:	
Seq Number:	3147860			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.14.2021 10:26	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.14.2021 10:26	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.14.2021 10:26	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.14.2021 10:26	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.14.2021 10:26	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.14.2021 10:26	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.14.2021 10:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	01.14.2021 10:26	
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.14.2021 10:26	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 684377

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719043-1-BLK — LCS Sample Id: 7719043-1-BKS — LCSD Sample Id: 7719043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	256	102	90-110	0	20	mg/kg	01.12.2021 19:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684371-001 — MS Sample Id: 684371-001 S — MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	199	525	106	527	106	90-110	0	20	mg/kg	01.12.2021 19:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684392-001 — MS Sample Id: 684392-001 S — MSD Sample Id: 684392-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.6	200	227	102	227	102	90-110	0	20	mg/kg	01.12.2021 20:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147633 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719039-1-BLK — LCS Sample Id: 7719039-1-BKS — LCSD Sample Id: 7719039-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1100	110	70-135	5	35	mg/kg	01.13.2021 02:29	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	1180	118	70-135	16	35	mg/kg	01.13.2021 02:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		84		114		70-135	%	01.13.2021 02:29
o-Terphenyl	88		89		96		70-135	%	01.13.2021 02:29

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147633 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719039-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.13.2021 02:10	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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QC Summary 684377

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147633 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1190	119	1030	103	70-135	14	35	mg/kg	01.13.2021 03:28	
Diesel Range Organics (DRO)	<50.2	1000	1090	109	1170	117	70-135	7	35	mg/kg	01.13.2021 03:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		117		70-135	%	01.13.2021 03:28
o-Terphenyl	108		106		70-135	%	01.13.2021 03:28

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Solid Date Prep: 01.13.2021
MB Sample Id: 7719047-1-BLK LCS Sample Id: 7719047-1-BKS LCSD Sample Id: 7719047-1-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	0.0935	94	0.100	100	70-130	7	35	mg/kg	01.14.2021 06:51	
Toluene	<0.00200	0.100	0.0883	88	0.0913	91	70-130	3	35	mg/kg	01.14.2021 06:51	
Ethylbenzene	<0.00200	0.100	0.0914	91	0.0953	95	71-129	4	35	mg/kg	01.14.2021 06:51	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.191	96	70-135	5	35	mg/kg	01.14.2021 06:51	
o-Xylene	<0.00200	0.100	0.0936	94	0.0965	97	71-133	3	35	mg/kg	01.14.2021 06:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		101		70-130	%	01.14.2021 06:51
4-Bromofluorobenzene	111		110		113		70-130	%	01.14.2021 06:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Soil Date Prep: 01.13.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 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	0.0976	98	0.0954	94	70-130	2	35	mg/kg	01.14.2021 07:36	
Toluene	<0.00200	0.100	0.0923	92	0.0879	87	70-130	5	35	mg/kg	01.14.2021 07:36	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0891	88	71-129	6	35	mg/kg	01.14.2021 07:36	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.181	90	70-135	7	35	mg/kg	01.14.2021 07:36	
o-Xylene	<0.00200	0.100	0.0973	97	0.0913	90	71-133	6	35	mg/kg	01.14.2021 07:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	01.14.2021 07:36
4-Bromofluorobenzene	108		106		70-130	%	01.14.2021 07:36

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

XENCO LABORATORIES

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) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: 684377

www.xenco.com Page 1 of 1

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

Work Order Comments

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

		Turn Around	
Project Name:	Ross Ranch (11/28/20) 6 Battery	Routine	☒
Project Number:	TE012920159	Rush:	
P.O. Number:			
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT	Temp Blank: (Yes) No	Wet Ice: (Yes) No
Temperature (°C):	1.4/1.2	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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
CH09A	S	1/11/2021	1120	8'	1	X	X	X	

Work Order Notes

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

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 [signature]	[signature]	1·12·21 1330	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.12.2021 01.30.00 PM

Work Order #: 684377

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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.12.2021

Cloe Clifton

Checklist reviewed by: Jessica Kramer Date: 01.13.2021

Jessica Kramer

eurofins | Environment Testing Xenco

Certificate of Analysis Summary 684379

WSP USA, Dallas, TX

Project Name: Ross Ranch (11/28/20) 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 01.12.2021 13:30
Report Date: 01.15.2021 09:30
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684379-001					
	Field Id:	CH10					
	Depth:	2- ft					
	Matrix:	SOIL					
	Sampled:	01.11.2021 11:40					
BTEX by EPA 8021B	***Extracted:***	01.13.2021 15:23					
	Analyzed:	01.14.2021 10:48					
	Units/RL:	mg/kg RL					
Benzene		<0.00198 0.00198					
Toluene		<0.00198 0.00198					
Ethylbenzene		<0.00198 0.00198					
m,p-Xylenes		<0.00397 0.00397					
o-Xylene		<0.00198 0.00198					
Total Xylenes		<0.00198 0.00198					
Total BTEX		<0.00198 0.00198					
Chloride by EPA 300	***Extracted:***	01.12.2021 16:30					
	Analyzed:	01.12.2021 20:03					
	Units/RL:	mg/kg RL					
Chloride		25.1 10.1					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 18:00					
	Analyzed:	01.13.2021 05:06					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2					
Diesel Range Organics (DRO)		<50.2 50.2					
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2					
Total GRO-DRO		<50.2 50.2					
Total TPH		<50.2 50.2					

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Analytical Report 684379

for

WSP USA

Project Manager: Dan Moir

Ross Ranch (11/28/20) 6 Battery

TE012920159

01.15.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins | Environment Testing Xenco

01.15.2021

Project Manager: **Dan Moir**
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **684379**
Ross Ranch (11/28/20) 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684379. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684379 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684379

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH10	S	01.11.2021 11:40	2 ft	684379-001

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: WSP USA

Project Name: Ross Ranch (11/28/20) 6 Battery

Project ID:	*TE012920159*	Report Date:	*01.15.2021*
Work Order Number(s):	*684379*	Date Received:	*01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

eurofins | Environment Testing Xenco

Certificate of Analytical Results 684379

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH10**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684379-001	Date Collected:	01.11.2021 11:40	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.12.2021 16:30	% Moisture:	
Seq Number:	3147631			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**25.1**	10.1	mg/kg	01.12.2021 20:03		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 18:00	% Moisture:	
Seq Number:	3147633			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.13.2021 05:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.13.2021 05:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.13.2021 05:06	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	01.13.2021 05:06	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.13.2021 05:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-135	01.13.2021 05:06	
o-Terphenyl	84-15-1	98	%	70-135	01.13.2021 05:06	

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Certificate of Analytical Results 684379

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH10**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684379-001	Date Collected:	01.11.2021 11:40	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.13.2021 15:23	% Moisture:	
Seq Number:	3147860			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	01.14.2021 10:48	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	01.14.2021 10:48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	01.14.2021 10:48	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	01.14.2021 10:48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	01.14.2021 10:48	U	1
Total Xylenes	1330-20-7	<0.00198	0.00198	mg/kg	01.14.2021 10:48	U	1
Total BTEX		<0.00198	0.00198	mg/kg	01.14.2021 10:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.14.2021 10:48	
4-Bromofluorobenzene	460-00-4	114	%	70-130	01.14.2021 10:48	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 684379

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WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719043-1-BLK — LCS Sample Id: 7719043-1-BKS — LCSD Sample Id: 7719043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	256	102	90-110	0	20	mg/kg	01.12.2021 19:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684371-001 — MS Sample Id: 684371-001 S — MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	199	525	106	527	106	90-110	0	20	mg/kg	01.12.2021 19:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684392-001 — MS Sample Id: 684392-001 S — MSD Sample Id: 684392-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.6	200	227	102	227	102	90-110	0	20	mg/kg	01.12.2021 20:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147633 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719039-1-BLK — LCS Sample Id: 7719039-1-BKS — LCSD Sample Id: 7719039-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	1050	105	1100	110	70-135	5	35	mg/kg	01.13.2021 02:29	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	1180	118	70-135	16	35	mg/kg	01.13.2021 02:29	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	92		84		114		70-135	%	01.13.2021 02:29
o-Terphenyl	88		89		96		70-135	%	01.13.2021 02:29

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147633 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719039-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.13.2021 02:10	

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

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QC Summary 684379

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147633 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	1190	119	1030	103	70-135	14	35	mg/kg	01.13.2021 03:28	
Diesel Range Organics (DRO)	<50.2	1000	1090	109	1170	117	70-135	7	35	mg/kg	01.13.2021 03:28	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	108		117		70-135	%	01.13.2021 03:28
o-Terphenyl	108		106		70-135	%	01.13.2021 03:28

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Solid Date Prep: 01.13.2021
MB Sample Id: 7719047-1-BLK LCS Sample Id: 7719047-1-BKS LCSD Sample Id: 7719047-1-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	0.0935	94	0.100	100	70-130	7	35	mg/kg	01.14.2021 06:51	
Toluene	<0.00200	0.100	0.0883	88	0.0913	91	70-130	3	35	mg/kg	01.14.2021 06:51	
Ethylbenzene	<0.00200	0.100	0.0914	91	0.0953	95	71-129	4	35	mg/kg	01.14.2021 06:51	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.191	96	70-135	5	35	mg/kg	01.14.2021 06:51	
o-Xylene	<0.00200	0.100	0.0936	94	0.0965	97	71-133	3	35	mg/kg	01.14.2021 06:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		101		70-130	%	01.14.2021 06:51
4-Bromofluorobenzene	111		110		113		70-130	%	01.14.2021 06:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Soil Date Prep: 01.13.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 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	0.0976	98	0.0954	94	70-130	2	35	mg/kg	01.14.2021 07:36	
Toluene	<0.00200	0.100	0.0923	92	0.0879	87	70-130	5	35	mg/kg	01.14.2021 07:36	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0891	88	71-129	6	35	mg/kg	01.14.2021 07:36	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.181	90	70-135	7	35	mg/kg	01.14.2021 07:36	
o-Xylene	<0.00200	0.100	0.0973	97	0.0913	90	71-133	6	35	mg/kg	01.14.2021 07:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	01.14.2021 07:36
4-Bromofluorobenzene	108		106		70-130	%	01.14.2021 07:36

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 684379

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:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	Dan.Moir@wsp.com, Joe.Hernandez@wsp.com

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) 6 Battery	Turn Around	
Project Number:	TE012920159	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	1.4/1.2	Thermometer ID		
Received Intact:	(Yes) No	T-WM-002		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH10	S	1/11/2021	1140	2'	1	X	X	X

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
	Cloe Clifton	12.21 1330	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.12.2021 01.30.00 PM

Work Order #: 684379

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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.12.2021

Checklist reviewed by: Jessica Kramer Date: 01.13.2021

Jessica Kramer

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Certificate of Analysis Summary 684381

WSP USA, Dallas, TX

Project Name: Ross Ranch (11/28/20) 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 01.12.2021 13:30
Report Date: 01.15.2021 09:29
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684381-001					
	Field Id:	CH10A					
	Depth:	8- ft					
	Matrix:	SOIL					
	Sampled:	01.11.2021 12:40					
BTEX by EPA 8021B	***Extracted:***	01.13.2021 15:23					
	Analyzed:	01.14.2021 11:11					
	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:***	01.12.2021 16:30					
	Analyzed:	01.12.2021 20:21					
	Units/RL:	mg/kg RL					
Chloride		96.3 50.3					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 16:03					
	Analyzed:	01.12.2021 20:34					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9					
Diesel Range Organics (DRO)		<49.9 49.9					
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9					
Total GRO-DRO		<49.9 49.9					
Total TPH		<49.9 49.9					

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Analytical Report 684381

for

WSP USA

Project Manager: Dan Moir

Ross Ranch (11/28/20) 6 Battery

TE012920159

01.15.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.15.2021

Project Manager: **Dan Moir**
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **684381**
Ross Ranch (11/28/20) 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684381. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684381 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684381

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH10A	S	01.11.2021 12:40	8 ft	684381-001

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: WSP USA

Project Name: Ross Ranch (11/28/20) 6 Battery

Project ID: *TE012920159*
Work Order Number(s): *684381*

Report Date: *01.15.2021*
Date Received: *01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684381

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH10A**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684381-001	Date Collected:	01.11.2021 12:40	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.12.2021 16:30	% Moisture:	
Seq Number:	3147631			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**96.3**	50.3	mg/kg	01.12.2021 20:21		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 16:03	% Moisture:	
Seq Number:	3147632			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.12.2021 20:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.12.2021 20:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.12.2021 20:34	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	01.12.2021 20:34	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.12.2021 20:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-135	01.12.2021 20:34	
o-Terphenyl	84-15-1	98	%	70-135	01.12.2021 20:34	

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Certificate of Analytical Results 684381

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH10A**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684381-001	Date Collected:	01.11.2021 12:40	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.13.2021 15:23	% Moisture:	
Seq Number:	3147860			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	01.14.2021 11:11	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	01.14.2021 11:11	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	01.14.2021 11:11	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	01.14.2021 11:11	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	01.14.2021 11:11	U	1
Total Xylenes	1330-20-7	<0.00199	0.00199	mg/kg	01.14.2021 11:11	U	1
Total BTEX		<0.00199	0.00199	mg/kg	01.14.2021 11:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.14.2021 11:11	
4-Bromofluorobenzene	460-00-4	114	%	70-130	01.14.2021 11:11	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 684381

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719043-1-BLK — LCS Sample Id: 7719043-1-BKS — LCSD Sample Id: 7719043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	256	102	90-110	0	20	mg/kg	01.12.2021 19:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684371-001 — MS Sample Id: 684371-001 S — MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	199	525	106	527	106	90-110	0	20	mg/kg	01.12.2021 19:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684392-001 — MS Sample Id: 684392-001 S — MSD Sample Id: 684392-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.6	200	227	102	227	102	90-110	0	20	mg/kg	01.12.2021 20:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK — LCS Sample Id: 7719038-1-BKS — LCSD Sample Id: 7719038-1-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	1020	102	1020	102	70-135	0	35	mg/kg	01.12.2021 17:33	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1000	100	70-135	6	35	mg/kg	01.12.2021 17:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		93		108		70-135	%	01.12.2021 17:33
o-Terphenyl	85		107		93		70-135	%	01.12.2021 17:33

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.12.2021 17:13	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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QC Summary 684381

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147632 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	1190	118	1190	119	70-135	0	35	mg/kg	01.12.2021 18:34	
Diesel Range Organics (DRO)	<50.3	1010	1100	109	1050	105	70-135	5	35	mg/kg	01.12.2021 18:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		113		70-135	%	01.12.2021 18:34
o-Terphenyl	114		106		70-135	%	01.12.2021 18:34

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Solid Date Prep: 01.13.2021
MB Sample Id: 7719047-1-BLK LCS Sample Id: 7719047-1-BKS LCSD Sample Id: 7719047-1-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	0.0935	94	0.100	100	70-130	7	35	mg/kg	01.14.2021 06:51	
Toluene	<0.00200	0.100	0.0883	88	0.0913	91	70-130	3	35	mg/kg	01.14.2021 06:51	
Ethylbenzene	<0.00200	0.100	0.0914	91	0.0953	95	71-129	4	35	mg/kg	01.14.2021 06:51	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.191	96	70-135	5	35	mg/kg	01.14.2021 06:51	
o-Xylene	<0.00200	0.100	0.0936	94	0.0965	97	71-133	3	35	mg/kg	01.14.2021 06:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		101		70-130	%	01.14.2021 06:51
4-Bromofluorobenzene	111		110		113		70-130	%	01.14.2021 06:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Soil Date Prep: 01.13.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 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	0.0976	98	0.0954	94	70-130	2	35	mg/kg	01.14.2021 07:36	
Toluene	<0.00200	0.100	0.0923	92	0.0879	87	70-130	5	35	mg/kg	01.14.2021 07:36	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0891	88	71-129	6	35	mg/kg	01.14.2021 07:36	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.181	90	70-135	7	35	mg/kg	01.14.2021 07:36	
o-Xylene	<0.00200	0.100	0.0973	97	0.0913	90	71-133	6	35	mg/kg	01.14.2021 07:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	01.14.2021 07:36
4-Bromofluorobenzene	108		106		70-130	%	01.14.2021 07:36

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 684381

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:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849 Email:		Dan.Moir@wsp.com, Joe.Hernandez@wsp.com

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) 6 Battery	Turn Around	
Project Number:	TE012920159	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	1.4/1.2	Thermometer ID	
Received Intact:	(Yes) No		TNM-007
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH10A	S	1/11/2021	1240	8'	1	X	X	X

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
Spencer Lo	Cloe Clifton	7.12.21 1330	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.12.2021 01.30.00 PM

Work Order #: 684381

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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.12.2021

Checklist reviewed by: Jessica Kramer Date: 01.13.2021

Jessica Kramer

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Certificate of Analysis Summary 684383

WSP USA, Dallas, TX

Project Name: Ross Ranch (11/28/20) 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 01.12.2021 13:30
Report Date: 01.15.2021 09:25
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684383-001					
	Field Id:	CH11					
	Depth:	2- ft					
	Matrix:	SOIL					
	Sampled:	01.11.2021 13:40					
BTEX by EPA 8021B	***Extracted:***	01.13.2021 15:23					
	Analyzed:	01.14.2021 11:33					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00399 0.00399					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Chloride by EPA 300	***Extracted:***	01.12.2021 16:30					
	Analyzed:	01.12.2021 20:27					
	Units/RL:	mg/kg RL					
Chloride		17.1 10.1					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 16:03					
	Analyzed:	01.12.2021 20:53					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9					
Diesel Range Organics (DRO)		<49.9 49.9					
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9					
Total GRO-DRO		<49.9 49.9					
Total TPH		<49.9 49.9					

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 684383

for

WSP USA

Project Manager: Dan Moir

Ross Ranch (11/28/20) 6 Battery

TE012920159

01.15.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.15.2021

Project Manager: **Dan Moir**
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **684383**
Ross Ranch (11/28/20) 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684383. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684383 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684383

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH11	S	01.11.2021 13:40	2 ft	684383-001

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CASE NARRATIVE

Client Name: WSP USA

Project Name: Ross Ranch (11/28/20) 6 Battery

Project ID:	*TE012920159*	Report Date:	*01.15.2021*
Work Order Number(s):	*684383*	Date Received:	*01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684383

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH11**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684383-001	Date Collected:	01.11.2021 13:40	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.12.2021 16:30	% Moisture:	
Seq Number:	3147631			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**17.1**	10.1	mg/kg	01.12.2021 20:27		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 16:03	% Moisture:	
Seq Number:	3147632			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	01.12.2021 20:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	01.12.2021 20:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	01.12.2021 20:53	U	1
Total GRO-DRO	PHC628	<49.9	49.9	mg/kg	01.12.2021 20:53	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	01.12.2021 20:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	01.12.2021 20:53	
o-Terphenyl	84-15-1	116	%	70-135	01.12.2021 20:53	

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Certificate of Analytical Results 684383

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH11**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684383-001	Date Collected:	01.11.2021 13:40	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.13.2021 15:23	% Moisture:	
Seq Number:	3147860			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.14.2021 11:33	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.14.2021 11:33	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.14.2021 11:33	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	01.14.2021 11:33	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.14.2021 11:33	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.14.2021 11:33	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.14.2021 11:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	01.14.2021 11:33	
1,4-Difluorobenzene	540-36-3	100	%	70-130	01.14.2021 11:33	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

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QC Summary 684383

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719043-1-BLK — LCS Sample Id: 7719043-1-BKS — LCSD Sample Id: 7719043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	256	102	90-110	0	20	mg/kg	01.12.2021 19:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684371-001 — MS Sample Id: 684371-001 S — MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	199	525	106	527	106	90-110	0	20	mg/kg	01.12.2021 19:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684392-001 — MS Sample Id: 684392-001 S — MSD Sample Id: 684392-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.6	200	227	102	227	102	90-110	0	20	mg/kg	01.12.2021 20:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK — LCS Sample Id: 7719038-1-BKS — LCSD Sample Id: 7719038-1-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	1020	102	1020	102	70-135	0	35	mg/kg	01.12.2021 17:33	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1000	100	70-135	6	35	mg/kg	01.12.2021 17:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		93		108		70-135	%	01.12.2021 17:33
o-Terphenyl	85		107		93		70-135	%	01.12.2021 17:33

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.12.2021 17:13	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

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QC Summary 684383

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147632 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	1190	118	1190	119	70-135	0	35	mg/kg	01.12.2021 18:34	
Diesel Range Organics (DRO)	<50.3	1010	1100	109	1050	105	70-135	5	35	mg/kg	01.12.2021 18:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		113		70-135	%	01.12.2021 18:34
o-Terphenyl	114		106		70-135	%	01.12.2021 18:34

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Solid Date Prep: 01.13.2021
MB Sample Id: 7719047-1-BLK LCS Sample Id: 7719047-1-BKS LCSD Sample Id: 7719047-1-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	0.0935	94	0.100	100	70-130	7	35	mg/kg	01.14.2021 06:51	
Toluene	<0.00200	0.100	0.0883	88	0.0913	91	70-130	3	35	mg/kg	01.14.2021 06:51	
Ethylbenzene	<0.00200	0.100	0.0914	91	0.0953	95	71-129	4	35	mg/kg	01.14.2021 06:51	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.191	96	70-135	5	35	mg/kg	01.14.2021 06:51	
o-Xylene	<0.00200	0.100	0.0936	94	0.0965	97	71-133	3	35	mg/kg	01.14.2021 06:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		101		70-130	%	01.14.2021 06:51
4-Bromofluorobenzene	111		110		113		70-130	%	01.14.2021 06:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Soil Date Prep: 01.13.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 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	0.0976	98	0.0954	94	70-130	2	35	mg/kg	01.14.2021 07:36	
Toluene	<0.00200	0.100	0.0923	92	0.0879	87	70-130	5	35	mg/kg	01.14.2021 07:36	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0891	88	71-129	6	35	mg/kg	01.14.2021 07:36	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.181	90	70-135	7	35	mg/kg	01.14.2021 07:36	
o-Xylene	<0.00200	0.100	0.0973	97	0.0913	90	71-133	6	35	mg/kg	01.14.2021 07:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	01.14.2021 07:36
4-Bromofluorobenzene	108		106		70-130	%	01.14.2021 07:36

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

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

Work Order No: 684383

Page 1 of 1

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

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) 6 Battery	Turn Around	
Project Number:	TE012920159	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	1.4/1.2	Thermometer ID		
Received Intact:	Yes No	TNM-007		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No N/A	Total Containers:	1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH11	S	1/11/2021	1340	2'	1	X	X	X

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
	Cloe Cuplo	1.12.21 1338	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.12.2021 01.30.00 PM

Work Order #: 684383

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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.12.2021

Checklist reviewed by: Jessica Kramer Date: 01.13.2021

Jessica Kramer

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Certificate of Analysis Summary 684385

WSP USA, Dallas, TX

Project Name: Ross Ranch 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 01.12.2021 13:30
Report Date: 01.15.2021 09:32
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684385-001					
	Field Id:	CH11 A					
	Depth:	8- ft					
	Matrix:	SOIL					
	Sampled:	01.11.2021 14:20					
BTEX by EPA 8021B	***Extracted:***	01.13.2021 15:23					
	Analyzed:	01.14.2021 11:56					
	Units/RL:	mg/kg RL					
Benzene		<0.00200 0.00200					
Toluene		<0.00200 0.00200					
Ethylbenzene		<0.00200 0.00200					
m,p-Xylenes		<0.00401 0.00401					
o-Xylene		<0.00200 0.00200					
Total Xylenes		<0.00200 0.00200					
Total BTEX		<0.00200 0.00200					
Chloride by EPA 300	***Extracted:***	01.12.2021 16:30					
	Analyzed:	01.12.2021 20:33					
	Units/RL:	mg/kg RL					
Chloride		146 49.9					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 16:03					
	Analyzed:	01.12.2021 21:13					
	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					

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Analytical Report 684385

for

WSP USA

Project Manager: Dan Moir

Ross Ranch 6 Battery

TE012920159

01.15.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.15.2021

Project Manager: **Dan Moir**
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **684385**
Ross Ranch 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684385. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684385 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684385

WSP USA, Dallas, TX

Ross Ranch 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH11 A	S	01.11.2021 14:20	8 ft	684385-001

CASE NARRATIVE

eurofins | Environment Testing Xenco

Client Name: WSP USA

Project Name: Ross Ranch 6 Battery

Project ID: *TE012920159*
Work Order Number(s): *684385*

Report Date: *01.15.2021*
Date Received: *01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684385

WSP USA, Dallas, TX

Ross Ranch 6 Battery

Sample Id:	**CH11 A**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684385-001	Date Collected:	01.11.2021 14:20	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.12.2021 16:30	% Moisture:	
Seq Number:	3147631			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**146**	49.9	mg/kg	01.12.2021 20:33		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 16:03	% Moisture:	
Seq Number:	3147632			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	01.12.2021 21:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	01.12.2021 21:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	01.12.2021 21:13	U	1
Total GRO-DRO	PHC628	<50.1	50.1	mg/kg	01.12.2021 21:13	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	01.12.2021 21:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-135	01.12.2021 21:13	
o-Terphenyl	84-15-1	108	%	70-135	01.12.2021 21:13	

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Certificate of Analytical Results 684385

WSP USA, Dallas, TX

Ross Ranch 6 Battery

Sample Id:	**CH11 A**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684385-001	Date Collected:	01.11.2021 14:20	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.13.2021 15:23	% Moisture:	
Seq Number:	3147860			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.14.2021 11:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.14.2021 11:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.14.2021 11:56	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.14.2021 11:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.14.2021 11:56	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.14.2021 11:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.14.2021 11:56	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	01.14.2021 11:56	
1,4-Difluorobenzene	540-36-3	107	%	70-130	01.14.2021 11:56	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 684385

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WSP USA

Ross Ranch 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719043-1-BLK — LCS Sample Id: 7719043-1-BKS — LCSD Sample Id: 7719043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	256	102	90-110	0	20	mg/kg	01.12.2021 19:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684371-001 — MS Sample Id: 684371-001 S — MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	199	525	106	527	106	90-110	0	20	mg/kg	01.12.2021 19:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684392-001 — MS Sample Id: 684392-001 S — MSD Sample Id: 684392-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.6	200	227	102	227	102	90-110	0	20	mg/kg	01.12.2021 20:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK — LCS Sample Id: 7719038-1-BKS — LCSD Sample Id: 7719038-1-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	1020	102	1020	102	70-135	0	35	mg/kg	01.12.2021 17:33	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1000	100	70-135	6	35	mg/kg	01.12.2021 17:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		93		108		70-135	%	01.12.2021 17:33
o-Terphenyl	85		107		93		70-135	%	01.12.2021 17:33

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.12.2021 17:13	

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

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QC Summary 684385

WSP USA

Ross Ranch 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147632 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	1190	118	1190	119	70-135	0	35	mg/kg	01.12.2021 18:34	
Diesel Range Organics (DRO)	<50.3	1010	1100	109	1050	105	70-135	5	35	mg/kg	01.12.2021 18:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		113		70-135	%	01.12.2021 18:34
o-Terphenyl	114		106		70-135	%	01.12.2021 18:34

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Solid Date Prep: 01.13.2021
MB Sample Id: 7719047-1-BLK LCS Sample Id: 7719047-1-BKS LCSD Sample Id: 7719047-1-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	0.0935	94	0.100	100	70-130	7	35	mg/kg	01.14.2021 06:51	
Toluene	<0.00200	0.100	0.0883	88	0.0913	91	70-130	3	35	mg/kg	01.14.2021 06:51	
Ethylbenzene	<0.00200	0.100	0.0914	91	0.0953	95	71-129	4	35	mg/kg	01.14.2021 06:51	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.191	96	70-135	5	35	mg/kg	01.14.2021 06:51	
o-Xylene	<0.00200	0.100	0.0936	94	0.0965	97	71-133	3	35	mg/kg	01.14.2021 06:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		101		70-130	%	01.14.2021 06:51
4-Bromofluorobenzene	111		110		113		70-130	%	01.14.2021 06:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Soil Date Prep: 01.13.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 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	0.0976	98	0.0954	94	70-130	2	35	mg/kg	01.14.2021 07:36	
Toluene	<0.00200	0.100	0.0923	92	0.0879	87	70-130	5	35	mg/kg	01.14.2021 07:36	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0891	88	71-129	6	35	mg/kg	01.14.2021 07:36	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.181	90	70-135	7	35	mg/kg	01.14.2021 07:36	
o-Xylene	<0.00200	0.100	0.0973	97	0.0913	90	71-133	6	35	mg/kg	01.14.2021 07:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	01.14.2021 07:36
4-Bromofluorobenzene	108		106		70-130	%	01.14.2021 07:36

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

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)

Work Order No: 684385

www.xenco.com Page 1 of 1

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

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) 6 Battery	Turn Around	
Project Number:	TE012920159	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temperature (°C):	1.4/1.2	Temp Blank:	Yes (No)	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID		1-NM-007
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:		-0.3
Sample Custody Seals:	Yes (No) N/A	Total Containers:		1

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH11A	S	1/11/2021	1420	8'	1	X	X	X

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		Joe Clifton	1.12.21 1330	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.12.2021 01.30.00 PM

Work Order #: 684385

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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.12.2021

Checklist reviewed by: Jessica Kramer Date: 01.14.2021

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Certificate of Analysis Summary 684386

WSP USA, Dallas, TX

Project Name: Ross Ranch (11/28/20) 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 01.12.2021 13:30
Report Date: 01.15.2021 09:31
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684386-001					
	Field Id:	CH12					
	Depth:	2- ft					
	Matrix:	SOIL					
	Sampled:	01.11.2021 14:28					
BTEX by EPA 8021B	***Extracted:***	01.13.2021 15:23					
	Analyzed:	01.14.2021 12:18					
	Units/RL:	mg/kg RL					
Benzene		<0.00201 0.00201					
Toluene		<0.00201 0.00201					
Ethylbenzene		<0.00201 0.00201					
m,p-Xylenes		<0.00402 0.00402					
o-Xylene		<0.00201 0.00201					
Total Xylenes		<0.00201 0.00201					
Total BTEX		<0.00201 0.00201					
Chloride by EPA 300	***Extracted:***	01.12.2021 16:30					
	Analyzed:	01.12.2021 20:39					
	Units/RL:	mg/kg RL					
Chloride		11.6 9.92					
TPH by SW8015 Mod	***Extracted:***	01.12.2021 16:03					
	Analyzed:	01.12.2021 21:33					
	Units/RL:	mg/kg RL					
Gasoline Range Hydrocarbons (GRO)		<50.2 50.2					
Diesel Range Organics (DRO)		<50.2 50.2					
Motor Oil Range Hydrocarbons (MRO)		<50.2 50.2					
Total GRO-DRO		<50.2 50.2					
Total TPH		<50.2 50.2					

BRL - Below Reporting Limit

Jessica Kramer

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

eurofins | Environment Testing Xenco

Analytical Report 684386

for

WSP USA

Project Manager: Dan Moir

Ross Ranch (11/28/20) 6 Battery

TE012920159

01.15.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.15.2021

Project Manager: **Dan Moir**
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **684386**
Ross Ranch (11/28/20) 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684386. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684386 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684386

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH12	S	01.11.2021 14:28	2 ft	684386-001

CASE NARRATIVE

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Client Name: WSP USA

Project Name: Ross Ranch (11/28/20) 6 Battery

Project ID:	*TE012920159*	Report Date:	*01.15.2021*
Work Order Number(s):	*684386*	Date Received:	*01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684386

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH12**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684386-001	Date Collected:	01.11.2021 14:28	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.12.2021 16:30	% Moisture:	
Seq Number:	3147631			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**11.6**	9.92	mg/kg	01.12.2021 20:39		1

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 16:03	% Moisture:	
Seq Number:	3147632			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	01.12.2021 21:33	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	01.12.2021 21:33	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	01.12.2021 21:33	U	1
Total GRO-DRO	PHC628	<50.2	50.2	mg/kg	01.12.2021 21:33	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	01.12.2021 21:33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	01.12.2021 21:33	
o-Terphenyl	84-15-1	112	%	70-135	01.12.2021 21:33	

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Certificate of Analytical Results 684386

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH12**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684386-001	Date Collected:	01.11.2021 14:28	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.13.2021 15:23	% Moisture:	
Seq Number:	3147860			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	01.14.2021 12:18	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	01.14.2021 12:18	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	01.14.2021 12:18	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	01.14.2021 12:18	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	01.14.2021 12:18	U	1
Total Xylenes	1330-20-7	<0.00201	0.00201	mg/kg	01.14.2021 12:18	U	1
Total BTEX		<0.00201	0.00201	mg/kg	01.14.2021 12:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	121	%	70-130	01.14.2021 12:18	
1,4-Difluorobenzene	540-36-3	105	%	70-130	01.14.2021 12:18	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 684386

eurofins | Environment Testing Xenco

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719043-1-BLK — LCS Sample Id: 7719043-1-BKS — LCSD Sample Id: 7719043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	256	102	90-110	0	20	mg/kg	01.12.2021 19:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684371-001 — MS Sample Id: 684371-001 S — MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	199	525	106	527	106	90-110	0	20	mg/kg	01.12.2021 19:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684392-001 — MS Sample Id: 684392-001 S — MSD Sample Id: 684392-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.6	200	227	102	227	102	90-110	0	20	mg/kg	01.12.2021 20:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK — LCS Sample Id: 7719038-1-BKS — LCSD Sample Id: 7719038-1-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	1020	102	1020	102	70-135	0	35	mg/kg	01.12.2021 17:33	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1000	100	70-135	6	35	mg/kg	01.12.2021 17:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		93		108		70-135	%	01.12.2021 17:33
o-Terphenyl	85		107		93		70-135	%	01.12.2021 17:33

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.12.2021 17:13	

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

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QC Summary 684386

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147632 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	1190	118	1190	119	70-135	0	35	mg/kg	01.12.2021 18:34	
Diesel Range Organics (DRO)	<50.3	1010	1100	109	1050	105	70-135	5	35	mg/kg	01.12.2021 18:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		113		70-135	%	01.12.2021 18:34
o-Terphenyl	114		106		70-135	%	01.12.2021 18:34

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Solid Date Prep: 01.13.2021
MB Sample Id: 7719047-1-BLK LCS Sample Id: 7719047-1-BKS LCSD Sample Id: 7719047-1-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	0.0935	94	0.100	100	70-130	7	35	mg/kg	01.14.2021 06:51	
Toluene	<0.00200	0.100	0.0883	88	0.0913	91	70-130	3	35	mg/kg	01.14.2021 06:51	
Ethylbenzene	<0.00200	0.100	0.0914	91	0.0953	95	71-129	4	35	mg/kg	01.14.2021 06:51	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.191	96	70-135	5	35	mg/kg	01.14.2021 06:51	
o-Xylene	<0.00200	0.100	0.0936	94	0.0965	97	71-133	3	35	mg/kg	01.14.2021 06:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		101		70-130	%	01.14.2021 06:51
4-Bromofluorobenzene	111		110		113		70-130	%	01.14.2021 06:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Soil Date Prep: 01.13.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 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	0.0976	98	0.0954	94	70-130	2	35	mg/kg	01.14.2021 07:36	
Toluene	<0.00200	0.100	0.0923	92	0.0879	87	70-130	5	35	mg/kg	01.14.2021 07:36	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0891	88	71-129	6	35	mg/kg	01.14.2021 07:36	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.181	90	70-135	7	35	mg/kg	01.14.2021 07:36	
o-Xylene	<0.00200	0.100	0.0973	97	0.0913	90	71-133	6	35	mg/kg	01.14.2021 07:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	01.14.2021 07:36
4-Bromofluorobenzene	108		106		70-130	%	01.14.2021 07:36

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 684386

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:	WSP USA Inc., Permian office	Company Name:	XTO Energy
Address:	3300 North A Street	Address:	3104 East Green Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	(432) 236-3849	Email:	Dan.Moir@wsp.com, Joe.Hernandez@wsp.com

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) 6 Battery	Turn Around	
Project Number:	TE012920159	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	1.4/1.2	Thermometer ID	
Received Intact:	(Yes) No	T-NM-002	
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	+0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH12	S	1/11/2021	1428	2'	1	X	X	X

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
	Clee Clifton	1-12-21 1330	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.12.2021 01.30.00 PM

Work Order #: 684386

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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.12.2021

Checklist reviewed by: Jessica Kramer Date: 01.13.2021

Jessica Kramer

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Certificate of Analysis Summary 684388

WSP USA, Dallas, TX

Project Name: Ross Ranch (11/28/20) 6 Battery

Project Id: TE012920159
Contact: Dan Moir
Project Location:

Date Received in Lab: Tue 01.12.2021 13:30
Report Date: 01.15.2021 09:30
Project Manager: Jessica Kramer

Analysis Requested							
	Lab Id:	684388-001					
	Field Id:	CH12 A					
	Depth:	8- ft					
	Matrix:	SOIL					
	Sampled:	01.11.2021 15:13					
BTEX by EPA 8021B	***Extracted:***	01.13.2021 15:23					
	Analyzed:	01.14.2021 12:41					
	Units/RL:	mg/kg	RL				
Benzene		<0.00200	0.00200				
Toluene		<0.00200	0.00200				
Ethylbenzene		<0.00200	0.00200				
m,p-Xylenes		<0.00401	0.00401				
o-Xylene		<0.00200	0.00200				
Total Xylenes		<0.00200	0.00200				
Total BTEX		<0.00200	0.00200				
Chloride by EPA 300	***Extracted:***	01.12.2021 16:30					
	Analyzed:	01.12.2021 20:45					
	Units/RL:	mg/kg	RL				
Chloride		83.5	49.8				
TPH by SW8015 Mod	***Extracted:***	01.12.2021 16:03					
	Analyzed:	01.12.2021 21:53					
	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				

BRL - Below Reporting Limit

Jessica Kramer

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

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Analytical Report 684388

for

WSP USA

Project Manager: Dan Moir

Ross Ranch (11/28/20) 6 Battery

TE012920159

01.15.2021

Collected By: Client

1089 N Canal Street
Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8)
Xenco-Tampa: Florida (E87429), North Carolina (483)

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01.15.2021

Project Manager: **Dan Moir**
WSP USA
2777 N. Stemmons Freeway, Suite 1600
Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **684388**
Ross Ranch (11/28/20) 6 Battery
Project Address:

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 684388. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 684388 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Manager

A Small Business and Minority Company

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

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Sample Cross Reference 684388

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
CH12 A	S	01.11.2021 15:13	8 ft	684388-001

CASE NARRATIVE

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Client Name: WSP USA

Project Name: Ross Ranch (11/28/20) 6 Battery

Project ID:	*TE012920159*	Report Date:	*01.15.2021*
Work Order Number(s):	*684388*	Date Received:	*01.12.2021*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

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Certificate of Analytical Results 684388

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH12 A**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684388-001	Date Collected:	01.11.2021 15:13	Sample Depth:	8 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.12.2021 16:30	% Moisture:	
Seq Number:	3147631			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**83.5**	49.8	mg/kg	01.12.2021 20:45		5

Analytical Method:	TPH by SW8015 Mod			Prep Method:	SW8015P
Tech:	CAC				
Analyst:	CAC	Date Prep:	01.12.2021 16:03	% Moisture:	
Seq Number:	3147632			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	01.12.2021 21:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	01.12.2021 21:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	01.12.2021 21:53	U	1
Total GRO-DRO	PHC628	<50.0	50.0	mg/kg	01.12.2021 21:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	01.12.2021 21:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	01.12.2021 21:53	
o-Terphenyl	84-15-1	122	%	70-135	01.12.2021 21:53	

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Certificate of Analytical Results 684388

WSP USA, Dallas, TX

Ross Ranch (11/28/20) 6 Battery

Sample Id:	**CH12 A**	Matrix:	Soil	Date Received:	01.12.2021 13:30
Lab Sample Id:	684388-001	Date Collected:	01.11.2021 15:13	Sample Depth:	8 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5035A
Tech:	MAB				
Analyst:	MAB	Date Prep:	01.13.2021 15:23	% Moisture:	
Seq Number:	3147860			Basis:	Wet Weight

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	01.14.2021 12:41	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	01.14.2021 12:41	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	01.14.2021 12:41	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	01.14.2021 12:41	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	01.14.2021 12:41	U	1
Total Xylenes	1330-20-7	<0.00200	0.00200	mg/kg	01.14.2021 12:41	U	1
Total BTEX		<0.00200	0.00200	mg/kg	01.14.2021 12:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	01.14.2021 12:41	
4-Bromofluorobenzene	460-00-4	106	%	70-130	01.14.2021 12:41	

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Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 684388

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WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719043-1-BLK — LCS Sample Id: 7719043-1-BKS — LCSD Sample Id: 7719043-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<10.0	250	255	102	256	102	90-110	0	20	mg/kg	01.12.2021 19:16	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684371-001 — MS Sample Id: 684371-001 S — MSD Sample Id: 684371-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	315	199	525	106	527	106	90-110	0	20	mg/kg	01.12.2021 19:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3147631 — Matrix: Soil — Date Prep: 01.12.2021
Parent Sample Id: 684392-001 — MS Sample Id: 684392-001 S — MSD Sample Id: 684392-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	23.6	200	227	102	227	102	90-110	0	20	mg/kg	01.12.2021 20:57	

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK — LCS Sample Id: 7719038-1-BKS — LCSD Sample Id: 7719038-1-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	1020	102	1020	102	70-135	0	35	mg/kg	01.12.2021 17:33	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1000	100	70-135	6	35	mg/kg	01.12.2021 17:33	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	82		93		108		70-135	%	01.12.2021 17:33
o-Terphenyl	85		107		93		70-135	%	01.12.2021 17:33

Analytical Method: TPH by SW8015 Mod — Prep Method: SW8015P
Seq Number: 3147632 — Matrix: Solid — Date Prep: 01.12.2021
MB Sample Id: 7719038-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	01.12.2021 17:13	

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference 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

eurofins | Environment Testing Xenco

QC Summary 684388

WSP USA

Ross Ranch (11/28/20) 6 Battery

Analytical Method: **TPH by SW8015 Mod** Prep Method: SW8015P
Seq Number: 3147632 Matrix: Soil Date Prep: 01.12.2021
Parent Sample Id: 684140-001 MS Sample Id: 684140-001 S MSD Sample Id: 684140-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.3	1010	1190	118	1190	119	70-135	0	35	mg/kg	01.12.2021 18:34	
Diesel Range Organics (DRO)	<50.3	1010	1100	109	1050	105	70-135	5	35	mg/kg	01.12.2021 18:34	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	105		113		70-135	%	01.12.2021 18:34
o-Terphenyl	114		106		70-135	%	01.12.2021 18:34

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Solid Date Prep: 01.13.2021
MB Sample Id: 7719047-1-BLK LCS Sample Id: 7719047-1-BKS LCSD Sample Id: 7719047-1-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	0.0935	94	0.100	100	70-130	7	35	mg/kg	01.14.2021 06:51	
Toluene	<0.00200	0.100	0.0883	88	0.0913	91	70-130	3	35	mg/kg	01.14.2021 06:51	
Ethylbenzene	<0.00200	0.100	0.0914	91	0.0953	95	71-129	4	35	mg/kg	01.14.2021 06:51	
m,p-Xylenes	<0.00400	0.200	0.182	91	0.191	96	70-135	5	35	mg/kg	01.14.2021 06:51	
o-Xylene	<0.00200	0.100	0.0936	94	0.0965	97	71-133	3	35	mg/kg	01.14.2021 06:51	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		100		101		70-130	%	01.14.2021 06:51
4-Bromofluorobenzene	111		110		113		70-130	%	01.14.2021 06:51

Analytical Method: **BTEX by EPA 8021B** Prep Method: SW5035A
Seq Number: 3147860 Matrix: Soil Date Prep: 01.13.2021
Parent Sample Id: 684371-001 MS Sample Id: 684371-001 S MSD Sample Id: 684371-001 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	0.0976	98	0.0954	94	70-130	2	35	mg/kg	01.14.2021 07:36	
Toluene	<0.00200	0.100	0.0923	92	0.0879	87	70-130	5	35	mg/kg	01.14.2021 07:36	
Ethylbenzene	<0.00200	0.100	0.0947	95	0.0891	88	71-129	6	35	mg/kg	01.14.2021 07:36	
m,p-Xylenes	<0.00401	0.200	0.195	98	0.181	90	70-135	7	35	mg/kg	01.14.2021 07:36	
o-Xylene	<0.00200	0.100	0.0973	97	0.0913	90	71-133	6	35	mg/kg	01.14.2021 07:36	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	01.14.2021 07:36
4-Bromofluorobenzene	108		106		70-130	%	01.14.2021 07:36

MS/MSD Percent Recovery [D] = 100*(C-A) / B
Relative Percent Difference RPD = 200* | (C-E) / (C+E) |
LCS/LCSD Recovery [D] = 100 * (C) / [B]
Log Difference Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

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

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

Chain of Custody

Work Order No: 684388

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)

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

Work Order Comments

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

Project Name:	Ross Ranch (11/28/20) 6 Battery	Turn Around	
Project Number:	TE012920159	Routine	S
P.O. Number:		Rush:	
Sampler's Name:	Spencer Lo	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	1.4/1.2	Thermometer ID		
Received Intact:	(Yes) No	T-NM-002		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:	1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
CH12A	S	1/11/2021	1513	8'	1	X	X	X

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		Cole Clifton	1-12-21 1335	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA

Date/ Time Received: 01.12.2021 01.30.00 PM

Work Order #: 684388

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**	Samples received in bulk containers.
#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: Cloe Clifton Date: 01.12.2021

Checklist reviewed by: Jessica Kramer Date: 01.13.2021

Jessica Kramer

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

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

CONDITIONS

Action 29628

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	5380
	Action Number: 29628
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. The variance request for the confirmation samples every 500 ft2 is approved. All contaminated soil must be reclaimed/remediated and removed down to 4 feet below surface or until it meets strictest closure criteria. In the pasture area, 4 feet below the ground surface, soil contamination limits revert back to Table 1 standards of 2,500 mg/kg (GRO+DRO+MRO) or 1,000 mg/kg (GRO+DRO) and chlorides to 20,000 mg/kg. If equipment/high pressure pipelines hinder excavation, use a hydrovac to “safely” remove contaminated soil.	9/8/2021