Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	VGWU 47H
District RP	1RP-1438
Facility ID	
Application ID	pPAC0719237372

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	102 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☑ Yes ☐ No

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

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

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

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

Form C-141 State of New Mexico
Page 4 Oil Conservation Division

Incident ID	
District RP	1RP-1438
Facility ID	
Application ID	pPAC0719237372

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: Jason Michelson Title: Project Manager

Signature: Jason Michelson Date: 2/12/2020

email: JMichelson@chevron.com Telephone: 832-854-5601

OCD Only

Received by: _____ Date: _____

Form C-141 State of New Mexico
Page 6 Oil Conservation Division

Incident ID	nPAC0718639786
District RP	1RP-1438
Facility ID	
Application ID	pPAC0719237372

Closure

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

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

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

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

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

☑ Description of remediation activities

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

Printed Name: Jason Michelson Title: Project Manager

Signature: Jason Michelson Date: 2/12/2020

email: JMichelson@chevron.com Telephone: 832-854-5601

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Bradford Billings Date: 08/02/2021

Printed Name: Bradford Billings Title: Envi. Spec. A

3100 Plains Highway
P. O. Box 301
Lovington, New Mexico 88260
joel@etechenv.com
Office: (575) 396-2378 Fax: (575) 396-1429

REMEDIATION SUMMARY &

CLOSURE REQUEST

CENTRAL VACUUM UNIT No. 47H
Eddy County, New Mexico
Unit Letter "A" (NE/NE), Section 31, Township 17 South, Range 25 East
Latitude 32.796975° North, Longitude 103.490644° West
NMOCD Reference # 1RP-1483

Prepared For:

Chevron Environmental Management Company
1500 Louisiana St., Office 38116
Houston, TX 77002

Prepared By:
Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260

February 2020

Joel W. Lowry
Project Manager

Daniel Dominquez
Project Manager

TABLE OF CONTENTS

1.0 INTRODUCTION & BACKGROUND INFORMATION..... 1
2.0 NMOCD SITE CHARACTERIZATION..... 2
2.1 Closure Criteria for Soils Impacted by a Release..... 3
3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES..... 3
4.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN..... 7
5.0 QA/QC PROCEDURES..... 7
5.1 Soil Sampling..... 7
5.2 Decontamination of Equipment..... 7
5.3 Laboratory Protocol..... 7
6.0 SITE CLOSURE REQUEST..... 8
7.0 LIMITATIONS..... 8
8.0 DISTRIBUTION..... 9

FIGURES

Figure 1 – Site Location Map
Figure 2 – Aerial Proximity Map
Figure 3 – Site & Sample Location Map (Delineation)
Figure 4 – Site & Sample Location Map (Excavation Confirmation)

TABLES

Table 1 – Concentrations of Benzene, BTEX, TPH & Chloride in Soil

APPENDICES

Appendix A – Groundwater Information
Appendix B – Soil Boring Logs
Appendix C – Laboratory Analytical Reports
Appendix D – Photographic Log
Appendix E – Site Assessment Report
Appendix F – Initial Form C-141

1.0 INTRODUCTION & BACKGROUND INFORMATION

Etech Environmental & Safety Solutions (Etech), on behalf of Chevron Environmental Management Company (CEMC) has prepared this *Remediation Summary & Closure Request* for the Site known as the Central Vacuum Unit No. 47H (CVU No. 47H) The legal description of the release site is Unit Letter "A" (NE/NE), Section 31, Township 17 South, Range 25 East, in Lea County, New Mexico. The geographic coordinates of the release site are 32.796975° North latitude and 103.490644° West longitude. The property affected by the release is owned by the State of New Mexico and administered by the New Mexico State Land Office (NMSLO). A Site Location Map is provided as Figure 1.

Between January 31, 2006, and March 25, 2015, a reserve pit on the north side of the CVU No. 47H pumping unit was remediated in accordance with the NMOCD. During the course of remediation activities, approximately 2,722 cubic yards (cy) of impacted soil was excavated and transported to Sundance Services, Inc for disposal. On June 10, 2015, a *Remediation and Pit Closure Activities Report* was submitted to the NMOCD, documenting NMOCD-approved corrective actions and laboratory analytical results from confirmation soil samples, along with Final NMOCD Form C-144. Please reference the *Remediation and Pit Closure Activities Report,* dated April 2015, for additional details regarding remediation activities and laboratory analytical results from confirmation soil samples.

During the course of remediation activities associated with the reserve pit, elevated chloride concentrations were detected in the area south-southeast of the reserve pit. At the request of the NMOCD, remediation of impacted soil south-southeast of the reserve pit would be completed and reported under a an NMOCD Form C-141. On October 1, 2015, CEMC filed an NMOCD Form C-141 documenting elevated chloride concentrations present in soil south-southeast of the remediated reserve pit. The Site was assigned Remediation Permit No. 1RP-1483. A copy of the Initial Form C-141 is provided as Appendix F.

On July 25, 2018, CEMC submitted a *Site Assessment Report* to the NMOCD, documenting recent assessment activities including the results electromagnetic (EM) and electrical resistivity (ER) surveys that had been conducted at the Site, along with laboratory analytical results from six (6) investigative soil borings (SB-5 through SB-10) that were advanced toward the south-southeast of the former reserve pit. The *Site Assessment Report* proposed the installation of six (6) additional soil borings and one (1) groundwater monitoring well. The *Site Assessment Report* was subsequently approved. Please reference the *Site Assessment Report*, dated July 25, 2018, for additional details regarding the EM and ER surveys and laboratory analytical results from delineation soil samples. Copies of soil boring logs are provided as Appendix B. Laboratory analytical reports are provided as Appendix C.

Beginning September 12, 2018, six (6) additional investigative soil borings (SB-11 through SB-16) were advanced at the Site. The soil borings were advanced to a total depth of approximately 90 feet below ground surface (bgs). In addition, one (1) groundwater monitoring well (MW-1) was installed southeast of the former reserve pit. The monitor well was advanced to 130 feet bgs. During the installation of the groundwater monitoring well, groundwater was encountered at a depth of approximately 106.31 feet bgs. On October 31, 2018, the groundwater monitoring well was sampled for concentrations of chloride in accordance with EPA Method 300 and TDS in accordance with Method SM 2540C. Laboratory analytical results from the groundwater sample

indicated the chloride concentration was 155 milligram per liter (mg/L); the TDS concentration was 678 mg/L. Laboratory analytical results from soil samples collected during the advancement of investigative soil borings SB-6 through SB-11 and MW-1 indicated concentrations of chloride were below the NMOCD Closure Criteria in each of the submitted soil samples.

On March 5, 2019, a *Site Assessment Report* was prepared detailing field activities conducted to date and laboratory analytical results from delineation soil samples. The *Site Assessment Report* proposed remediation activities designed to advance the Site toward an NMOCD-approved closure. The *Site Assessment Report* proposed excavating impacted soil affected above the NMOCD Reclamation Standard present within the uppermost 4 feet identified during the advancement of investigative soil borings south-southeast of the former reserve pit and installing a 20-mil poly liner within the floor of the excavated area atop areas where chloride impacts appear to extent past 4 feet bgs. Whether the *2019 Site Assessment Report* and associated proposed remediation plan was reviewed and/or approved remains unclear. A copy of the *2019 Site Assessment Report* is provided as Appendix F.

2.0 NMOCD SITE CHARACTERIZATION

A search of the groundwater databases maintained by the New Mexico Office of the State Engineer (NMOSE) and the United States Geological Survey was conducted in an effort to determine the horizontal distance to known water sources within a half-mile radius of the Site. Depth to groundwater information was determined based on field observations and gauging data from groundwater monitor well MW-1, along with numeric models based on available water well data and published information. Groundwater information is provided in Appendix A.

What is the shallowest depth to groundwater beneath the area affected by the release?	~102 Ft.	
Did the release impact groundwater or surface water?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes	☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of any occupied permanent residence, school, hospital, institution or church?	☐ Yes	☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes	☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes	☒ No
Are the lateral extents of the release within the incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes	☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes	☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes	☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes	☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes	☒ No
Did the release impact areas not on an exploration, development, production or storage site?	☒ Yes	☐ No

NMOCD Siting Criteria data was gathered from available resources including Bureau of Land Management (BLM) shapefiles; topographic maps; NMOSE and USGS databases; and aerial imagery. The results are depicted on Figure 1 – Site Location Map and Figure 2 – Aerial Proximity Map.

2.1 NMOCD SITE CHARACTERIZATION

Based on depth to groundwater information and NMOCD Siting Criteria, the NMOCD Closure Criteria for the Site is as follows:

Closure Criteria for Soil Impacted by a Release			
Probable Depth to Groundwater	**Constituent**	**Method**	**Limit**
~102 Ft.	Chloride	EPA 300.0 or SM4500 Cl B	20000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2500 mg/kg
	DRO + GRO	EPA SW-846 Method 8015M	1000 mg/kg
	BTEX	EPA SW-846 Methods 8021b or 8260b	50 mg/kg
	Benzene	EPA SW-846 Methods 8021b or 8260b	10 mg/kg

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On October 8, 2019, Etech conducted an initial investigation at the Site. During the initial investigation, a series of test trenches (TT #1 through TT #8) were advanced in an effort to further characterize impacted soil present within the uppermost 4 feet of the affected area. During the advancement of the test trenches, soil samples were collected from the surface, at 1 foot bgs and from the deepest interval achieved. The collected soil samples were submitted to Xenco Laboratories of Midland, Texas for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from less than the applicable laboratory sample detection limit in soil sample TT #3 @ Surf. to 1,150 mg/kg in soil sample TT #4 @ 1.5. Chloride concentrations were below the NMOCD Closure Criteria (20,000 mg/kg) in each of the submitted soil samples. Analytical results indicated chloride concentrations were below the NMOCD Reclamation Standard (600 mg/kg) in each of the soil samples submitted for the uppermost 4 feet with the exception of soil samples TT #1 @ 1' (628 mg/kg), TT #3 @ 2' (717 mg/kg), TT #4 @ 1.5' (1,150 mg/kg), TT #7 @ 1' (689 mg/kg), TT #8 @ 1' (3,140 mg/kg), TT #8 @ 2' (2,380 mg/kg) and TT #8 @ 3' (2,510 mg/kg). Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". Soil sample locations from the initial investigation are depicted on Figure 3 - Site & Sample Location Map (Initial Investigation). Laboratory analytical reports are provided as Appendix C.

On October 22, 2019, remediation activities commenced at the release site. Impacted soil affected above the NMOCD Reclamation Standard present within the uppermost 4 feet identified during the site assessments was excavated and transported to and NMOCD-permitted surface waste facility. The floor of the excavation was advanced until laboratory analytical results from excavation confirmation soil samples indicated concentrations of BTEX, TPH and chloride concentrations were below the NMOCD Reclamation Standard or 4 feet bgs, whichever was less. The uppermost 4 feet of the excavation sidewalls were advanced until laboratory analytical results from excavation confirmation soil samples indicated BTEX, TPH and chloride concentrations

were below the NMOCD Reclamation Standard. Excavation confirmation sample locations are depicted on Figure 4 - Site & Sample Location Map (Excavation Confirmation).

Between October 22 and 25, 2019, Etech collected twenty-five (25) excavation confirmation soil samples (NW1, NW2, NW3, EW1, EW2, EW3, EW4, SW1, WW3, WW 4, Floor 1b, Floor 2b, Floor 3b, Floor 4c, Floor 5b, Floor 6b, Floor 7, Floor 8, Floor 9, South Excavation NW, South Excavation EW, South Excavation WW, South Excavation SWb, South Excavation SWb and MW1) from the floor and sidewalls of the excavated area in the eastern portion of the Site. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Chloride concentrations were below the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples Floor 1b, which exhibited a chloride concentration of 641 mg/kg, South Excavation Floor, which exhibited a chloride concentration of 648 mg/kg and soil sample MW1, which exhibited a chloride concentration of 843 mg/kg. In addition, three (3) composite stockpile characterization soil samples (Stockpile A, Stockpile 5 and Stockpile 7) were collected from the excavated soil and submitted to the laboratory for analysis of chloride. Laboratory analytical results indicated chloride concentrations ranged from 168 mg/kg in soil sample Stockpile 7 to 530 mg/kg in soil sample Stockpile 5. Impacted soil in the areas characterized by soil samples Floor 1b, South Excavation Floor and MW1 was excavated. In accordance with the NMOCD, excavated soil characterized by soil samples Stockpile A, Stockpile 5 and Stockpile 7 was transported to an NMOCD-permitted surface waste facility.

On October 31, 2019, Etech collected two (2) excavation confirmation soil samples (East Excavation Floor 1C and South Excavation Floor B) and submitted them to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

On November 5, 2019, Etech collected twenty-four (24) excavation confirmation soil samples (MESW 1 through MESW 24) from the middle excavation and submitted them to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated benzene and BTEX concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples. Analytical results indicated TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. TPH concentrations were below the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples MESW 11 (110 mg/kg), MESW 19 103 (mg/kg) and MESW 20 (123 mg/kg). Chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. Chloride concentrations were below the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples MESW 5 (860 mg/kg), MESW 7 (817 mg/kg), MESW 13 (699 mg/kg), MESW 14 (1,930 mg/kg), MESW 15 (2,530 mg/kg) MESW 16 (1,800 mg/kg) and MESW 20 (656 mg/kg). Impacted soil affected above the NMOCD Reclamation Standard in the areas characterized by soil samples MESW 5, MESW 7, MESW 11, MESW 19 and MESW 20 was excavated. Further excavation of impacted soil in the areas characterized by soil samples MESW 13, MESW 14, MESW 15 and MESW 16 was precluded due to presence of an active pumping unit and associated piping. Non-impacted soil within the areas characterized by soil samples MESW 8 and MESW 21 through MESW 24 was excavated during the removal of other exceedances.

On November 11, 2019, Etech collected four (4) excavation confirmation soil samples (MESW 5b, MESW 7b, MESW 11b and MESW 25) and submitted them to the laboratory for analysis of BTEX, TPH and chloride. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and NMOCD Reclamation Standard in each of the submitted soil samples.

On November 12, 2019, Etech collected nineteen (19) excavation confirmation soil samples (NW 1b, EW 1b, EW 2b, EW 3b, EW 4b, SW 1b, WW 1, WW 2, WW 3b, WW 4b, Floor 1d, Floor 2c, Floor 3c, Floor 4d, Floor 5c, Floor 6c, Floor 7b, Floor 8b and Floor 9b) from the floor and sidewalls of the excavated area in western portion of the Site and submitted them to the laboratory for analysis of BTEX and TPH concentrations. Laboratory analytical results indicated benzene and BTEX concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples. Analytical results indicated TPH concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of soil sample Floor 6c (4,080 mg/kg). TPH concentrations were below the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil sample Floor 7b (265 mg/kg). Soil samples WW1 and WW2 were also analyzed for concentrations of chloride, which were determined to be below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard. Impacted soil affected above the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in the areas characterized by soil samples Floor 6c and Floor 7b was excavated.

On November 13, 2019, Etech collected thirty-three (33) excavation confirmation soil samples (MEFL 1 through MEFL 33) from the from the floor of the excavated area in the central portion of the Site. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

In addition, Etech collected five (5) excavation confirmation soil samples (SENWc, SEEW, SEWW, SESW and SE Floor) from the floor and sidewalls of excavated area in the southern portion of the Site. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On November 15, 2019, Etech collected two (2) excavation confirmation soil samples (Floor 6d and Floor 7c) from the floor of the excavated area in the eastern portion of the Site and submitted them to the laboratory for analysis of TPH concentrations. Laboratory analytical results indicated TPH concentrations were below the NMOCD Closure Criteria.

On November 18, 2019, upon receiving laboratory analytical results from excavation confirmation soil samples collected from the excavated area in the eastern portion of the Site, the excavated area was backfilled with locally sourced, non-impacted “like” material.

On November 19, 2019, upon receiving laboratory analytical results from excavation confirmation soil samples collected from the excavated area in the southern and central portions of the Site, three (30) 20-mil polyurethane liners were installed within the excavated areas at 4 feet bgs atop

impacted soil exhibiting chloride concentrations above 600 mg/kg in the areas characterized by soil samples SE Floor, MEFL1, MEFL7, MEFL13, MEFL14, MEFL23, MEFL24 and MEFL28. During the installation of the liners, an approximate 6-inch layer of pad material was installed below and above the liner in an effort to ensure the liner's integrity during backfilling activities. This engineering control is designed to inhibit the vertical migration of contaminants left in-situ. Upon installing the liners on the floor of the excavated area, the excavation was backfilled with locally sourced, non-impacted "like" material.

On November 25 and 26, 2019, Etech advanced twelve (12) test trenches (WENT1, WENT2, WENT3, WEET1, WEET2, WEWT1, WEWT1b, WEWT1c, WEWT1d and WEWT1e) in the western portion of the Site in an effort to further characterize soil impacts. During the advancement of the test trenches, twelve (12) soil samples (WENT1, WENT2, WENT3, WEET1, WEET2, WEWT1, WEWT1b, WEWT1c, WEWT1d and WEWT1e) were collected and submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH and chloride concentrations were below the NMOCD Closure Criteria and/or the NMOCD Reclamation Standard in each of the submitted soil samples.

In addition, Etech collected four (4) excavation confirmation soil samples from the floor of the excavated area in the western portion of the Site. The collected soil samples were submitted to the laboratory for analysis of TPH and chloride concentrations. Laboratory analytical results indicated TPH and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples.

On December 3, 2019, Etech collected ten (10) excavation confirmation soil samples (WEF5, WEF6, WEF 7, WEF 8, WEF 9, WENSW, WEESW, WESSW, WEWSW1 and WEWSW2) from the floor and sidewalls of the excavated area in the western portion of the Site. The collected soil samples were submitted to the laboratory for analysis of BTEX, TPH and chloride concentrations. Laboratory analytical results indicated BTEX, TPH and chloride concentrations were below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil sample WEWSW2, which exhibited a chloride concentration of 604 mg/kg. Impacted soil in the area characterized by soil sample WEWSW2 was excavated.

On December 5, 2019, Etech collected one (1) excavation confirmation soil sample (WEWSW2b) from the sidewall of the excavated area in the western portion of the Site. The collected soil sample was submitted to the laboratory for analysis of chloride concentrations. Laboratory analytical results indicated the chloride concentration was below the NMOCD Closure Criteria and/or NMOCD Reclamation Standard.

On December 6, 2019, upon receiving laboratory analytical results from excavation confirmation soil samples collected from the excavated area in the western portion of the Site, a 20-mil polyurethane liner was installed within the excavated area at 4 feet bgs atop impacted soil exhibiting chloride concentrations above 600 mg/kg in the areas characterized by soil samples WEF1, WEF2, WEF3, WEF4, WEF5, and WEF8. During the installation of the liner, an approximate 6-inch layer of pad material was installed below and above the liner in an effort to ensure the liner's integrity during backfilling activities. This engineering control is designed to inhibit the vertical migration of contaminants left in-situ. Upon installing the liners on the floor of the excavated area, the excavation was backfilled with locally sourced, non-impacted "like" material.

Between October 24 and December 5, 2019, approximately 2,835 cubic yards of impacted material was transported to Sundance Services, Inc (NM-01-0003) for disposal. Prior to backfilling, the final dimensions of the excavated area in the eastern portion of the Site were approximately 110 feet in length, 18 to 40 feet in width and 2 to 4 feet in depth. The final dimensions of the excavated area in the central portion of the Site were approximately 125 feet in length, 115 to 120 feet in width and 4 feet in depth. The final dimensions of the excavated area in the western portion of the Site were approximately 80 feet in length, 15 to 45 feet in width and 4 feet in depth. The final dimensions of the excavated area in the southern portion of the Site were approximately 15 feet in length, 15 feet in width and 4 feet in depth.

4.0 RESTORATION, RECLAMATION AND RE-VEGETATION PLAN

Upon receiving laboratory analytical results from confirmation soil samples, excavated areas were backfilled with locally sourced, non-impacted "like" material placed at or near original relative positions. Areas affected by remediation and closure activities were contoured and/or compacted to achieve erosion control, stability and preservation of surface water flow to the extent practicable. Affected areas not on production pads and/or lease roads will be reseeded with an NMSLO-approved seed mixture free of noxious weeds during the first favorable growing season following closure of the site.

5.0 QA/QC PROCEDURES

5.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories of Midland, Texas, for BTEX, TPH, and chloride analyses using the methods described below:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method 300.0.

5.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

5.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

Released to Imaging: 8/2/2021 4:21:03 PM

6.0 SITE CLOSURE REQUEST

Laboratory analytical results from excavation confirmation soil samples collected from the floor and sidewalls of the excavated areas indicate concentrations of benzene, BTEX, TPH and chloride were below the NMOCD Closure Criteria in each of the submitted soil samples. Analytical results from excavation confirmation soil samples collected from within the uppermost 4 feet of the affected area indicated concentrations of benzene, BTEX, TPH and chloride were below the NMOCD Reclamation Standard in each of the submitted soil samples with the exception of soil samples MESW13 (699 mg/kg), MESW14 (1,930 mg/kg), MESW15 (2,530 mg/kg) and MESW16 (1,800 mg/kg). Further advancement of the excavation in the areas characterized by soil samples MESW 13, MESW 14, MESW 15 and MESW 16 was limited due to its proximity to an active pumping unit.

Upon excavating impacted soil affected above the NMOCD Closure Criteria and/or NMOCD Reclamation Standard, a 20-mil polyurethane liner was installed within the floor of the excavation at 4 Ft bgs atop soil exhibiting chloride concentrations above 600 mg/kg. Based on laboratory analytical results from excavation confirmation soil samples and field activities conducted to date, Etech recommends CEMC provide the NMOCD and NMSLO copies of this *Remediation Summary & Closure Request* along with the applicable pages from the Final Form C-141 and request the NMOCD grant closure to the Central Vacuum Unit No. 47H Site.

7.0 LIMITATIONS

Etech Environmental & Safety Solutions, Inc. has prepared this *Remediation Summary & Closure Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in referenced materials and statements. Etech has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Etech has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Chevron Environmental Management Company. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech Environmental & Safety Solutions, Inc and Chevron Environmental Management Company.

Released to Imaging: 8/2/2021 4:21:03 PM

8.0 DISTRIBUTION

Copy 1: New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1220 South St. Francis Drive
Santa Fe, NM 87505

Copy 2: New Mexico State Land Office
Hobbs Field Office
2827 North Dal Paso Street
Suite 117
Hobbs, NM 88240

Copy 3: Chevron Environmental Management Company
1500 Louisiana St.
Office 38116
Houston, TX 77002

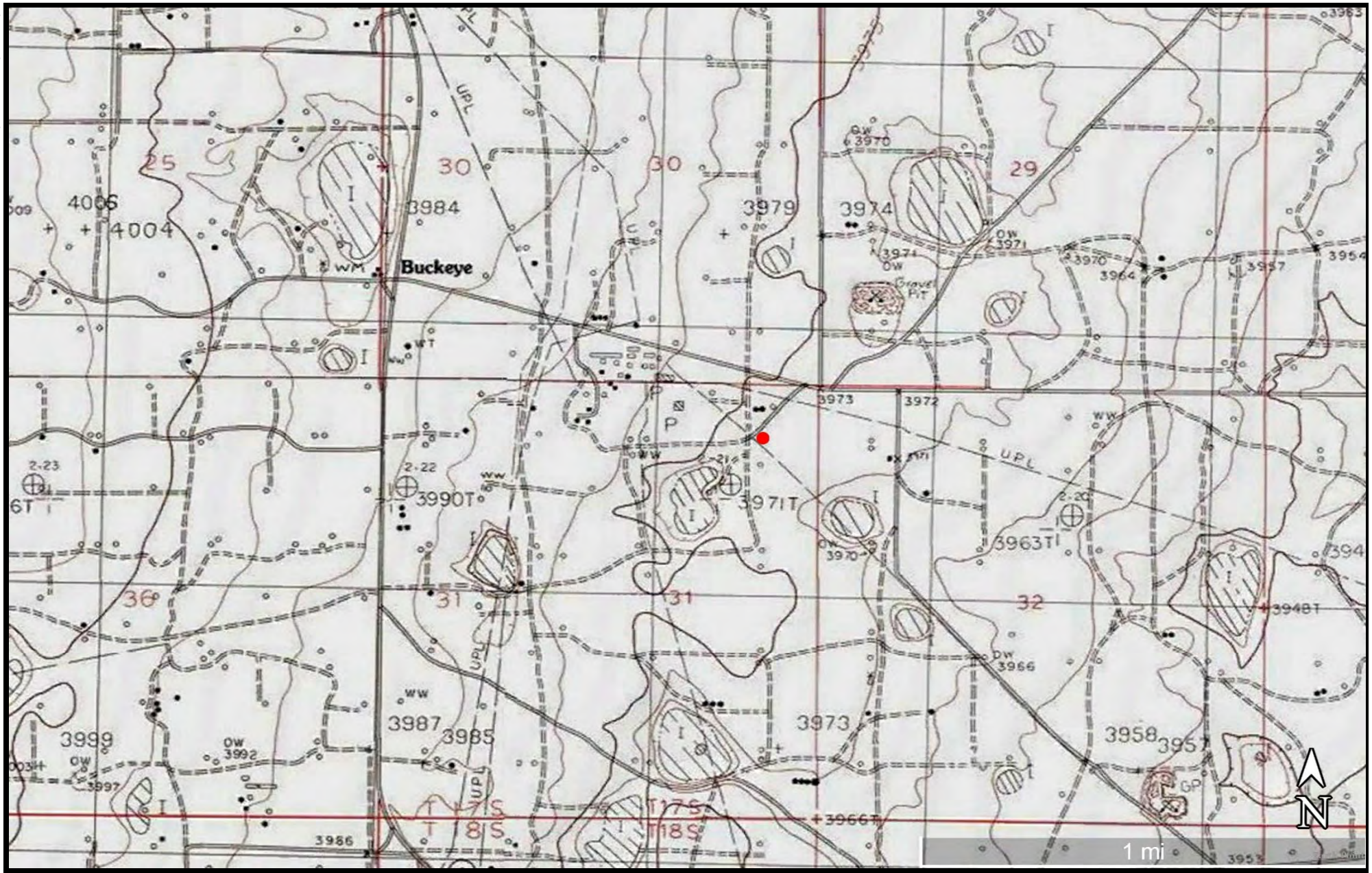
Copy 4: Etech Environmental & Safety Solutions, Inc.
3100 Plains Highway
Lovington, New Mexico 88260

(electronic submission)

Released to Imaging: 8/2/2021 4:21:03 PM

FIGURES

Released to Imaging: 8/2/2021 4:21:03 PM
Received by OCD: 2/13/2020 11:53:52 AM



Legend:

- Site Location

Figure 1
Topographic Map
Chevron Environmental Management Company
Central Vacuum Unit No. 47H
GPS: 32.796975, -103.490644
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 12/30/19

Released to Imaging: 8/2/2021 4:21:03 PM
Received by OCD: 2/13/2020 11:53:52 AM

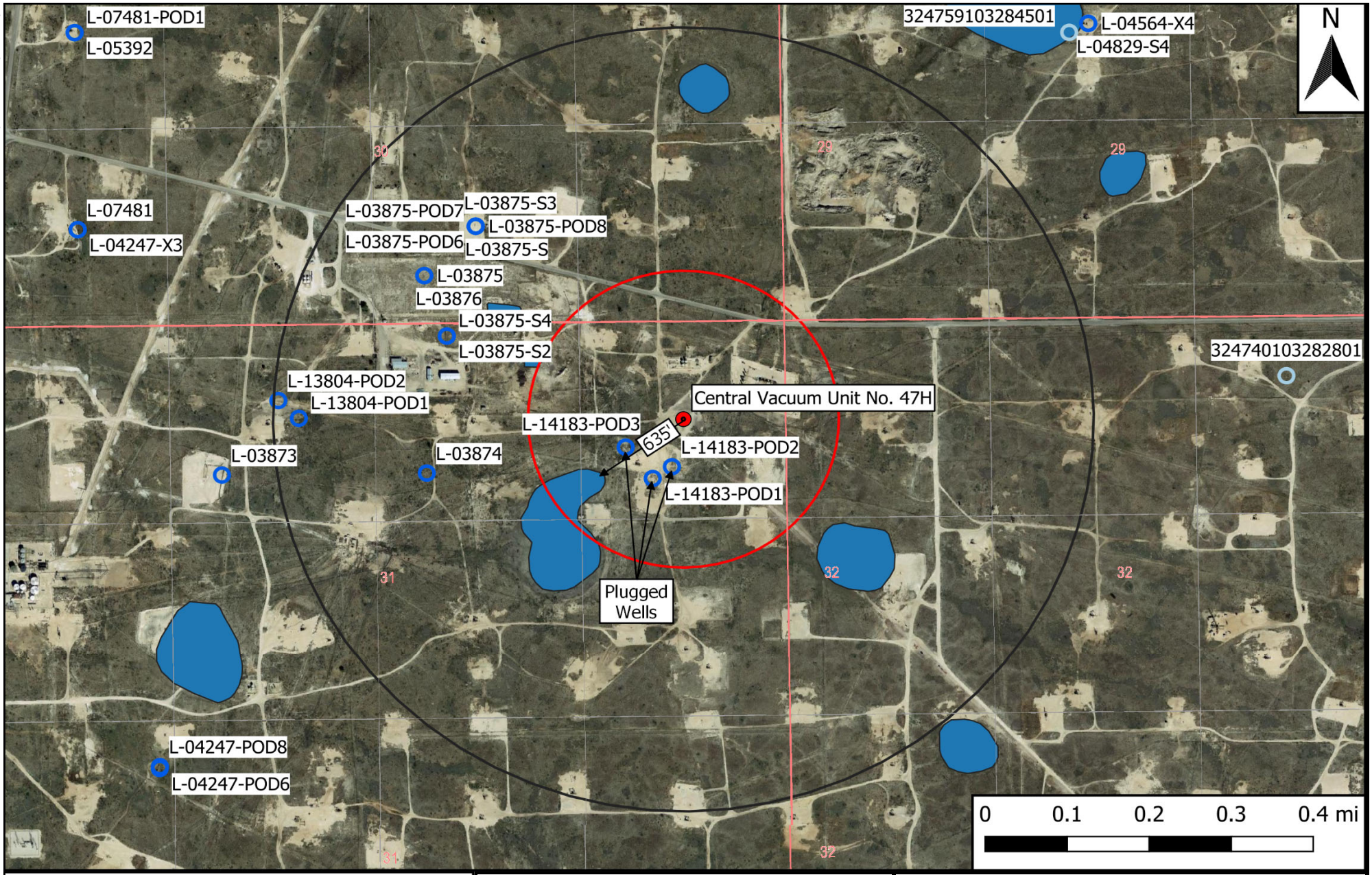
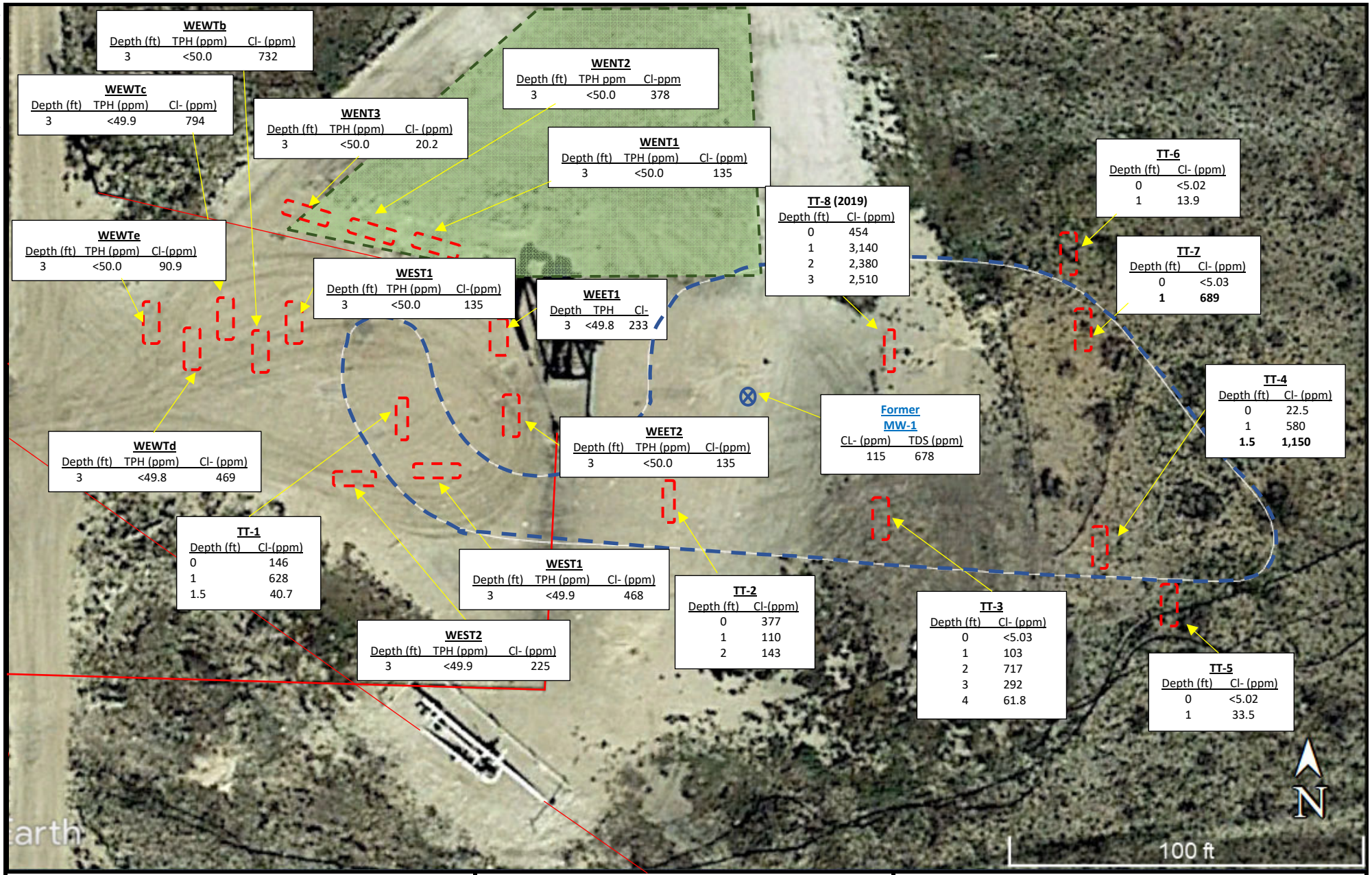


Figure 2
Aerial Map
Chevron Environmental Management Company
Central Vacuum Unit No. 47H
GPS: 32.796975, -103.490644
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 2/6/20

Released to Imaging: 8/2/2021 4:21:03 PM
Received by OCD: 2/13/2020 11:53:52 AM



Legend:

- Historic Remediation
- Monitor Well
- GHD Proposed Excavation
- Utilities
- Test Trench

Figure 3

Site and Sample Location Map - Initial Investigation

Chevron Environmental Management Company

Central Vacuum Unit No. 47H

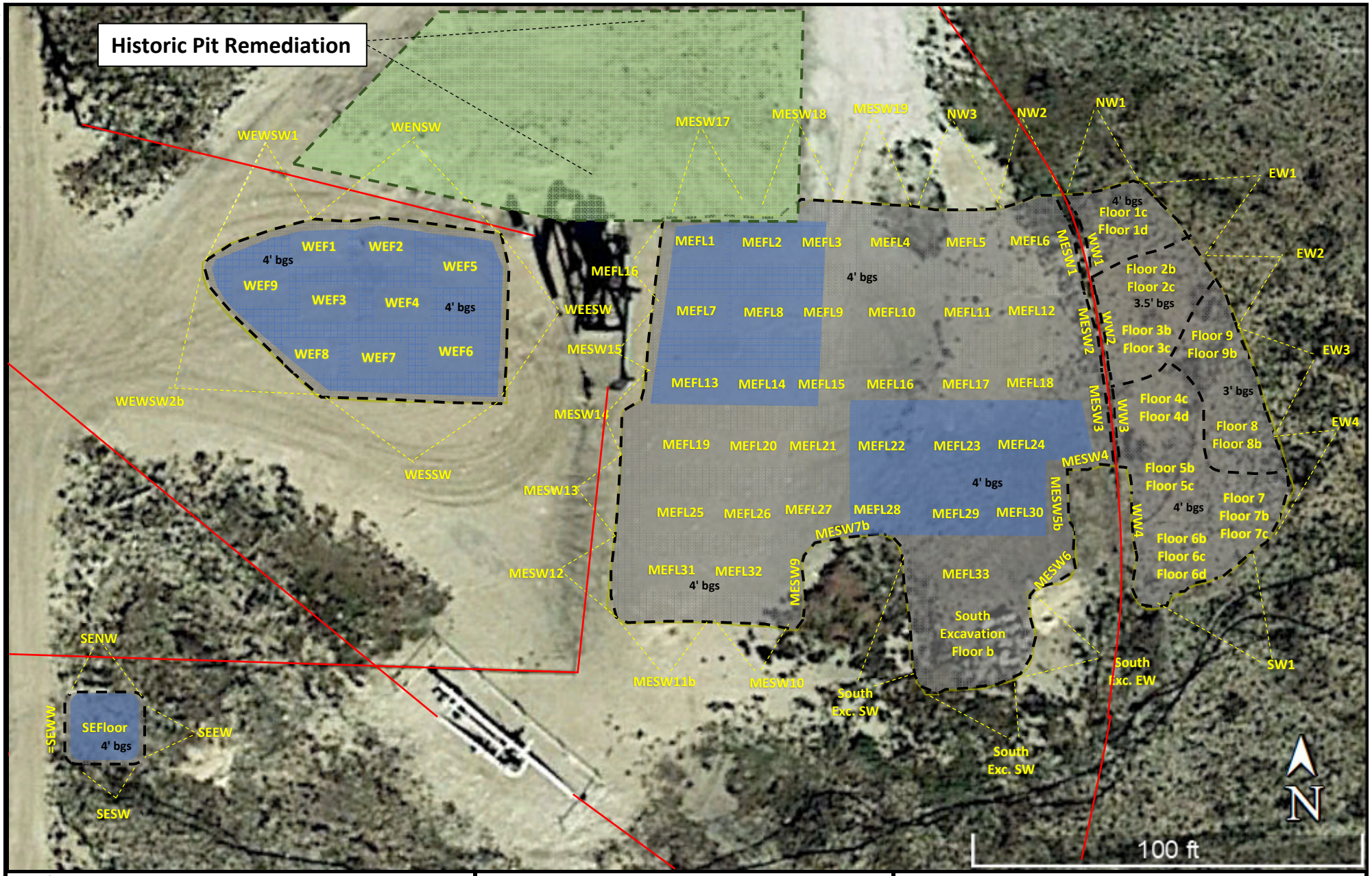
GPS: 32.796975, -103.490644

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: Checked: jwl Date: 2/6/20

Released to Imaging: 8/2/2021 4:21:03 PM
Received by OCD: 2/13/2020 11:53:52 AM



Legend:

- Excavated Areas
- Historic Remediation
- Utilities
- SW1 — Sample Location
- Lined Area

Figure 4

Site and Sample Location Map - Confirmation
Chevron Environmental Management Company
Central Vacuum Unit No. 47H
GPS: 32.796975, -103.490644
Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: Checked: jwl Date: 2/6/20

TABLES

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
Chevron Environmental Management Company
Central Vacuum Unit No. 47H
NMOCD Ref. #: 1RP-1483

Sample ID	Date	Depth	Location	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E 300
					Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
TT#1@Surf	10/8/19	Surface	Pad	Excavated	--	--	--	--	--	--	--	146
TT#1@1'	10/8/19	1'	Pad	Excavated	--	--	--	--	--	--	--	**628**
TT#1@1.5'	10/8/19	1.5'	Pad	Excavated	--	--	--	--	--	--	--	40.7
TT#2@Surf	10/8/19	Surface	Pad	Excavated	--	--	--	--	--	--	--	377
TT#2@1'	10/8/19	1'	Pad	Excavated	--	--	--	--	--	--	--	110
TT#2@2'	10/8/19	2'	Pad	Excavated	--	--	--	--	--	--	--	143
TT#2@2.5'	10/8/19	2.5'	Pad	Excavated	--	--	--	--	--	--	--	165
TT#3@Surf	10/8/19	Surface	Pad	Excavated	--	--	--	--	--	--	--	<5.03
TT#3@1'	10/8/19	1'	Pad	Excavated	--	--	--	--	--	--	--	103
TT#3@2'	10/8/19	2'	Pad	Excavated	--	--	--	--	--	--	--	717
TT#3@3'	10/8/19	3'	Pad	Excavated	--	--	--	--	--	--	--	292
TT#3@4'	10/8/19	4'	Pad	Excavated	--	--	--	--	--	--	--	61.8
TT#4@Surf	10/8/19	Surface	Pad	Excavated	--	--	--	--	--	--	--	22.5
TT#4@1'	10/8/19	1'	Pasture	Excavated	--	--	--	--	--	--	--	580
TT#4@1.5'	10/8/19	1.5'	Pasture	Excavated	--	--	--	--	--	--	--	**1,150**
TT#5@Surf	10/8/19	Surface	Pasture	In-Situ	--	--	--	--	--	--	--	<5.02
TT#5@1'	10/8/19	1'	Pasture	In-Situ	--	--	--	--	--	--	--	13.9
TT#6@Surf	10/8/19	Surface	Pasture	In-Situ	--	--	--	--	--	--	--	<5.02
TT#6@1'	10/8/19	1'	Pasture	In-Situ	--	--	--	--	--	--	--	33.5
TT#7@Surf	10/8/19	Surface	Pasture	Excavated	--	--	--	--	--	--	--	<5.03
TT#7@1'	10/8/19	1'	Pasture	Excavated	--	--	--	--	--	--	--	**689**
TT#8@Surf	10/8/19	Surface	Pad	Excavated	--	--	--	--	--	--	--	454
TT#8@1'	10/8/19	1'	Pad	Excavated	--	--	--	--	--	--	--	**3,140**
TT#8@2'	10/8/19	2'	Pad	Excavated	--	--	--	--	--	--	--	**2,380**
TT#8@3'	10/8/19	3'	Pad	Excavated	--	--	--	--	--	--	--	**2,510**
Closure Reclamation Standard					**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Closure Criteria					**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**20,000**

NOTES:

- = Not analyzed for constituent

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
Chevron Environmental Management Company
Central Vacuum Unit No. 47H
NMOCD Ref. #: 1RP-1483

Sample ID	Date	Depth	Location	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E 300
					Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
NW1	10/22/19	2'	Pasture	In Situ	--	--	--	--	--	--	--	67.9
NW2	10/24/19	2'	Pasture	In Situ	--	--	--	--	--	--	--	70
NW3	10/24/19	2'	Pasture	In Situ	--	--	--	--	--	--	--	311
EW1	10/22/19	2'	Pasture	In Situ	--	--	--	--	--	--	--	282
EW2	10/22/19	1.5'	Pasture	In Situ	--	--	--	--	--	--	--	183
EW3	10/22/19	1.5'	Pasture	In Situ	--	--	--	--	--	--	--	315
EW4	10/22/19	1'	Pasture	In Situ	--	--	--	--	--	--	--	162
SW1	10/22/19	1'	Pasture	In Situ	--	--	--	--	--	--	--	52
WW3	10/23/19	2'	Pasture	In Situ	--	--	--	--	--	--	--	243
WW4	10/23/19	2'	Pasture	In Situ	--	--	--	--	--	--	--	5.2
Floor1b	10/23/19	3.5'	Pasture	Excavated	--	--	--	--	--	--	--	**641**
Floor2b	10/23/19	3.5'	Pasture	In Situ	--	--	--	--	--	--	--	218
Floor3b	10/23/19	3.5'	Pasture	In Situ	--	--	--	--	--	--	--	39.7
Floor4c	10/23/19	4'	Pasture	In Situ	--	--	--	--	--	--	--	275
Floor5b	10/23/19	3.5'	Pasture	In Situ	--	--	--	--	--	--	--	413
Floor6b	10/23/19	3.5'	Pasture	Excavated	--	--	--	--	--	--	--	108
Floor7	10/23/19	3'	Pasture	Excavated	--	--	--	--	--	--	--	18.9
Floor8	10/23/19	3'	Pasture	In Situ	--	--	--	--	--	--	--	23.8
Floor9	10/23/19	3'	Pasture	In Situ	--	--	--	--	--	--	--	6.35
South Excavation NW	10/24/19	2'	Pasture	Excavated	--	--	--	--	--	--	--	88.2
South Excavation EW	10/24/19	2'	Pasture	In Situ	--	--	--	--	--	--	--	380
South Excavation WW	10/24/19	2'	Pasture	In Situ	--	--	--	--	--	--	--	173
South Excavation SWb	10/24/19	2'	Pasture	In Situ	--	--	--	--	--	--	--	50
South Excavation Floor	10/24/19	2'	Pasture	Excavated	--	--	--	--	--	--	--	**648**
MW1	10/25/19	2'	Pad	Excavated	--	--	--	--	--	--	--	**843**
Stockpile A	10/25/19	NA	NA	Disposed	--	--	--	--	--	--	--	400
Stockpile 5	10/25/19	NA	NA	Disposed	--	--	--	--	--	--	--	530
Stockpile 7	10/25/19	NA	NA	Disposed	--	--	--	--	--	--	--	168
East Excavation Floor 1C	10/31/19	4'	Pasture	In Situ	--	--	--	--	--	--	--	576
South Excavation Floor B	10/31/19	4'	Pasture	In Situ	--	--	--	--	--	--	--	546
Closure Reclamation Standard					**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Closure Criteria					**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**20,000**

NOTES:

- = Not analyzed for constituent

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
Chevron Environmental Management Company
Central Vacuum Unit No. 47H
NMOCD Ref. #: 1RP-1483

Sample ID	Date	Depth	Location	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E 300
					Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
MESW 1	11/5/19	2'	Pasture	In Situ	<0.0201	0.0710	<50.0	<50.0	<50.0	<50.0	<50.0	547
MESW 2	11/5/19	2'	Pasture	In Situ	<0.0199	0.0934	<50.0	<50.0	<50.0	<50.0	<50.0	461
MESW 3	11/5/19	2'	Pasture	In Situ	<0.0199	0.157	<49.9	<49.9	<49.9	<49.9	<49.9	474
MESW 4	11/5/19	2'	Pasture	In Situ	<0.0198	0.0208	<49.8	<49.8	<49.8	<49.8	<49.8	376
MESW 5	11/5/19	2'	Pasture	Excavated	<0.0200	0.124	<50.0	<50.0	<50.0	<50.0	<50.0	**860**
MESW 6	11/5/19	2'	Pasture	In Situ	<0.0202	0.0737	<49.8	<49.8	<49.8	<49.8	<49.8	481
MESW 7	11/5/19	2'	Pasture	Excavated	0.0306	0.162	<49.9	<49.9	<49.9	<49.9	<49.9	**817**
MESW 8	11/5/19	2'	Pasture	Excavated	<0.0202	0.0929	<49.9	<49.9	<49.9	<49.9	<49.9	468
MESW 9	11/5/19	2'	Pad	In Situ	0.0286	0.0286	<50.0	<50.0	<50.0	<50.0	<50.0	14.5
MESW 10	11/5/19	2'	Pad	In Situ	0.0252	0.259	<50.0	79.9	79.9	<50.0	79.9	279
MESW 11	11/5/19	2'	Pad	Excavated	0.0237	0.445	<49.9	110	110	<49.9	110	550
MESW 12	11/5/19	2'	Pad	In Situ	0.0202	0.0456	<49.8	<49.8	<49.8	<49.8	<49.8	590
MESW 13	11/5/19	2'	Pad	In Situ	0.0253	3.24	<50.0	96.60	96.60	<50.0	96.60	**699**
MESW 14	11/5/19	2'	Pad	In Situ	<0.0202	0.0344	<50.0	<50.0	<50.0	<50.0	<50.0	**1,930**
MESW 15	11/5/19	2'	Pad	In Situ	0.0205	0.0431	<49.9	<49.9	<49.9	<49.9	<49.9	**2,530**
MESW 16	11/5/19	2'	Pad	In Situ	<0.0201	0.723	<50.0	<50.0	<50.0	<50.0	<50.0	**1,800**
MESW 17	11/5/19	2'	Pad	In Situ	0.0324	0.354	<50.0	<50.0	<50.0	<50.0	<50.0	144
MESW 18	11/5/19	2'	Pad	In Situ	<0.0200	0.762	<49.9	<49.9	<49.9	<49.9	<49.9	228
MESW 19	11/5/19	2'	Pad	Excavated	0.0304	1.10	<49.8	103	103	<49.8	**103**	192
MESW 20	11/5/19	2'	Pad	Excavated	0.0372	3.22	<49.9	123	123	<49.9	**123**	**656**
MESW 21	11/5/19	2'	Pad	Excavated	<0.0198	0.588	<50.0	61.7	61.7	<50.0	61.7	164
MESW 22	11/5/19	2'	Pad	Excavated	<0.0199	<0.0199	<50.0	<50.0	<50.0	<50.0	<50.0	149
MESW 23	11/5/19	2'	Pad	Excavated	<0.0198	0.63	<49.9	<49.9	<49.9	<49.9	<49.9	19.9
MESW 24	11/5/19	2'	Pad	Excavated	<0.0200	<0.0200	<50.0	<50.0	<50.0	<50.0	<50.0	366
MESW 5b	11/11/19	2'	Pasture	In Situ	0.0819	0.0819	<49.9	<49.9	<49.9	<49.9	<49.9	310
MESW 7b	11/11/19	2'	Pasture	In Situ	0.103	0.103	<49.9	<49.9	<49.9	<49.9	<49.9	181
MESW 11b	11/11/19	2'	Pad	In Situ	0.0700	0.156	<50.0	<50.0	<50.0	<50.0	<50.0	563
MESW 25	11/11/19	2'	Pad	In Situ	0.0501	3.49	<49.9	<49.9	<49.9	<49.9	<49.9	541
Closure Reclamation Standard					**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Closure Criteria					**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**20,000**

NOTES:

- = Not analyzed for constituent

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
Chevron Environmental Management Company
Central Vacuum Unit No. 47H
NMOCD Ref. #: 1RP-1483

Sample ID	Date	Depth	Location	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E 300
					Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
NW1b	11/12/19	2'	Pasture	In Situ	<0.00201	0.0183	<49.9	<49.9	<49.9	<49.9	<49.9	--
EW1b	11/12/19	2'	Pasture	In Situ	<0.00200	0.0139	<50.0	<50.0	<50.0	<50.0	<50.0	--
EW2b	11/12/19	1.5'	Pasture	In Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	--
EW3b	11/12/19	1.5'	Pasture	In Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	--
EW4b	11/12/19	1'	Pasture	In Situ	<0.00201	<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	--
SW1b	11/12/19	1'	Pasture	In Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	--
WW1	11/12/19	2'	Pasture	In Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	47.5
WW2	11/12/19	2'	Pasture	In Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	97.1
WW3b	11/12/19	2'	Pasture	In Situ	<0.00198	0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	--
WW4b	11/12/19	2'	Pasture	In Situ	<0.00198	<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	--
Floor1d	11/12/19	4'	Pasture	In Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	--
Floor2c	11/12/19	3.5'	Pasture	In Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	--
Floor3c	11/12/19	3.5'	Pasture	In Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	--
Floor4d	11/12/19	4'	Pasture	In Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	--
Floor5c	11/12/19	3.5'	Pasture	In Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	--
Floor6c	11/12/19	3.5'	Pasture	Excavated	<0.00200	<0.00200	<50.0	2,900	**2,900**	1,180	**4,080**	--
Floor7b	11/12/19	3'	Pasture	Excavated	<0.00202	<0.00202	<50.0	180	180	84.9	265	--
Floor8b	11/12/19	3'	Pasture	In Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	--
Floor9b	11/12/19	3'	Pasture	In Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	--
SENWc	11/13/19	2'	Pasture	In Situ	<0.00100	0.0111	<50.2	<50.2	<50.2	<50.2	<50.2	248
SEEW	11/13/19	2'	Pasture	In Situ	<0.000990	<0.000990	<50.3	<50.3	<50.3	<50.3	<50.3	289
SEWW	11/13/19	2'	Pasture	In Situ	<0.00100	0.00116	<50.3	<50.3	<50.3	<50.3	<50.3	415
SESW	11/13/19	2'	Pasture	In Situ	<0.00101	<0.00101	<50.3	<50.3	<50.3	<50.3	<50.3	371
SE Floor	11/13/19	4'	Pasture	In Situ	<0.000996	<0.000996	<49.9	<49.9	<49.9	<49.9	<49.9	954
Closure Reclamation Standard					**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Closure Criteria					**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**20,000**

NOTES:

- = Not analyzed for constituent

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
Chevron Environmental Management Company
Central Vacuum Unit No. 47H
NMOCD Ref. #: 1RP-1483

Sample ID	Date	Depth	Location	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E 300
					Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
MEFL1	11/13/19	4'	Pad	Risked	<0.000998	0.000998	<49.9	<49.9	<49.9	<49.9	<49.9	651
MEFL2	11/13/19	4'	Pad	Risked	<0.00100	<0.00100	<50.0	<50.0	<50.0	<50.0	<50.0	516
MEFL3	11/13/19	4'	Pad	In Situ	<0.00101	<0.00101	<50.0	<50.0	<50.0	<50.0	<50.0	508
MEFL4	11/13/19	4'	Pasture	In Situ	<0.00101	<0.00101	<50.1	<50.1	<50.1	<50.1	<50.1	272
MEFL5	11/13/19	4'	Pasture	In Situ	<0.00100	<0.00100	<50.1	<50.1	<50.1	<50.1	<50.1	376
MEFL6	11/13/19	4'	Pasture	In Situ	<0.00101	<0.00101	<50.0	<50.0	<50.0	<50.0	<50.0	328
MEFL7	11/13/19	4'	Pad	Risked	<0.00100	<0.00100	<50.2	<50.2	<50.2	<50.2	<50.2	1,110
MEFL8	11/13/19	4'	Pad	Risked	<0.00101	<0.00101	<50.3	<50.3	<50.3	<50.3	<50.3	486
MEFL9	11/13/19	4'	Pad	In Situ	<0.00100	<0.00100	<50.3	<50.3	<50.3	<50.3	<50.3	471
MEFL10	11/13/19	4'	Pasture	In Situ	<0.00100	<0.00100	<50.1	<50.1	<50.1	<50.1	<50.1	154
MEFL11	11/13/19	4'	Pasture	In Situ	<0.00101	<0.00101	<50.3	<50.3	<50.3	<50.3	<50.3	413
MEFL12	11/13/19	4'	Pasture	In Situ	<0.000994	<0.000994	<50.1	<50.1	<50.1	<50.1	<50.1	306
MEFL13	11/13/19	4'	Pad	Risked	<0.000996	0.00873	<50.0	<50.0	<50.0	<50.0	<50.0	1,510
MEFL14	11/13/19	4'	Pad	Risked	<0.000998	0.0150	<50.3	<50.3	<50.3	<50.3	<50.3	864
MEFL15	11/13/19	4'	Pad	In Situ	<0.00100	0.00125	<50.2	<50.2	<50.2	<50.2	<50.2	363
MEFL16	11/13/19	4'	Pasture	In Situ	<0.000994	<0.000994	<50.2	<50.2	<50.2	<50.2	<50.2	213
MEFL17	11/13/19	4'	Pasture	In Situ	<0.000990	<0.000990	<50.0	<50.0	<50.0	<50.0	<50.0	564
MEFL18	11/13/19	4'	Pasture	In Situ	<0.00100	<0.00100	<49.9	<49.9	<49.9	<49.9	<49.9	407
MEFL19	11/13/19	4'	Pad	In Situ	<0.00101	0.00870	<49.8	<49.8	<49.8	<49.8	<49.8	445
MEFL20	11/13/19	4'	Pad	In Situ	<0.00101	0.0242	<50.0	<50.0	<50.0	<50.0	<50.0	537
MEFL21	11/13/19	4'	Pad	In Situ	<0.00100	<0.00100	<50.0	<50.0	<50.0	<50.0	<50.0	454
MEFL22	11/13/19	4'	Pasture	Risked	<0.00100	<0.00100	<49.9	<49.9	<49.9	<49.9	<49.9	427
MEFL23	11/13/19	4'	Pasture	Risked	<0.00101	<0.00101	<49.9	<49.9	<49.9	<49.9	<49.9	913
MEFL24	11/13/19	4'	Pasture	Risked	<0.00101	<0.00101	<50.1	<50.1	<50.1	<50.1	<50.1	855
MEFL25	11/13/19	4'	Pad	In Situ	<0.00101	<0.00101	<50.2	<50.2	<50.2	<50.2	<50.2	301
MEFL26	11/13/19	4'	Pad	In Situ	<0.000996	<0.000996	<50.0	<50.0	<50.0	<50.0	<50.0	461
MEFL27	11/13/19	4'	Pad	In Situ	<0.000998	<0.000998	<49.9	<49.9	<49.9	<49.9	<49.9	144
MEFL28	11/13/19	4'	Pasture	Risked	<0.000998	<0.000998	<49.8	<49.8	<49.8	<49.8	<49.8	681
MEFL29	11/13/19	4'	Pasture	Risked	<0.00100	<0.00100	<50.1	<50.1	<50.1	<50.1	<50.1	136
MEFL30	11/13/19	4'	Pasture	Risked	<0.00101	<0.00101	<50.1	<50.1	<50.1	<50.1	<50.1	367
MEFL31	11/13/19	4'	Pad	In Situ	<0.00101	<0.00101	<49.9	<49.9	<49.9	<49.9	<49.9	461
MEFL32	11/13/19	4'	Pad	In Situ	<0.00101	<0.00101	<50.0	59.9	59.9	<50.0	59.9	171
MEFL33	11/13/19	4'	Pasture	In Situ	<0.000998	<0.000998	<50.0	<50.0	<50.0	<50.0	<50.0	115
Floor6d	11/15/19	4'	Pasture	In Situ	--	--	<49.9	<49.9	<49.9	<49.9	<49.9	--
Floor7c	11/15/19	4'	Pasture	In Situ	--	--	<49.9	<49.9	<49.9	<49.9	<49.9	--
Closure Reclamation Standard					**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Closure Criteria					**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**20,000**

NOTES:

- = Not analyzed for constituent

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

TABLE 1
CONCENTRATIONS OF BENZENE, BTEX TPH AND CHLORIDE IN SOIL
Chevron Environmental Management Company
Central Vacuum Unit No. 47H
NMOCD Ref. #: 1RP-1483

Sample ID	Date	Depth	Location	Soil Status	SW 846 8021B		SW 846 8015M Ext.					E 300
					Benzene (mg/kg)	BTEX (mg/kg)	GRO C_6-C_{10} (mg/kg)	DRO C_{10}-C_{28} (mg/kg)	GRO + DRO C_6-C_{28} (mg/kg)	ORO C_{28}-C_{36} (mg/kg)	TPH C_6-C_{36} (mg/kg)	Chloride (mg/kg)
WENT1	11/25/19	3'	Pad	In Situ	--	--	<50.0	<50.0	<50.0	<50.0	<50.0	135
WENT2	11/25/19	3'	Pad	In Situ	--	--	<50.0	<50.0	<50.0	<50.0	<50.0	378
WENT3	11/25/19	3'	Pad	In Situ	--	--	<49.9	<49.9	<49.9	<49.9	<49.9	20.2
WEET1	11/25/19	3'	Pad	In Situ	--	--	<49.8	<49.8	<49.8	<49.8	<49.8	233
WEET2	11/25/19	3'	Pad	In Situ	--	--	<50.0	<50.0	<50.0	<50.0	<50.0	135
WEST1	11/25/19	3'	Pad	In Situ	--	--	<49.9	<49.9	<49.9	<49.9	<49.9	468
WEST2	11/25/19	3'	Pad	In Situ	--	--	<49.9	<49.9	<49.9	<49.9	<49.9	225
WEWT1	11/26/19	3'	Pad	In Situ	--	--	<49.8	<49.8	<49.8	<49.8	<49.8	304
WEWT1b	11/26/19	3'	Pad	Excavated	--	--	<50.0	<50.0	<50.0	<50.0	<50.0	**732**
WEWT1c	11/26/19	3'	Pad	Excavated	--	--	<49.9	<49.9	<49.9	<49.9	<49.9	**794**
WEWT1d	11/26/19	3'	Pad	In Situ	--	--	<49.8	<49.8	<49.8	<49.8	<49.8	469
WEWT1e	11/26/19	3'	Pad	In Situ	--	--	<50.0	<50.0	<50.0	<50.0	<50.0	90.9
WEF1	11/26/19	4'	Pad	Risked	--	--	<49.9	<49.9	<49.9	<49.9	<49.9	2,040
WEF2	11/26/19	4'	Pad	Risked	--	--	<50.0	<50.0	<50.0	<50.0	<50.0	2,340
WEF3	11/26/19	4'	Pad	Risked	--	--	<49.8	<49.8	<49.8	<49.8	<49.8	751
WEF4	11/26/19	4'	Pad	Risked	--	--	<50.0	<50.0	<50.0	<50.0	<50.0	1,140
WEF5	12/3/19	4'	Pad	Risked	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	753
WEF6	12/3/19	4'	Pad	Risked	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	226
WEF7	12/3/19	4'	Pad	Risked	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	567
WEF8	12/3/19	4'	Pad	Risked	<0.00201	<0.00201	<50.2	<50.2	<50.2	<50.2	<50.2	716
WEF9	12/3/19	4'	Pad	Risked	<0.00201	<0.00201	<50.3	<50.3	<50.3	<50.3	<50.3	543
WENSW	12/3/19	2'	Pad	In Situ	<0.00200	<0.00200	<50.1	<50.1	<50.1	<50.1	<50.1	171
WEESW	12/3/19	2'	Pad	In Situ	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	215
WESSW	12/3/19	2'	Pad	In Situ	<0.00198	<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	286
WEWSW1	12/3/19	2'	Pad	In Situ	<0.00200	<0.00200	<50.2	<50.2	<50.2	<50.2	<50.2	580
WEWSW2	12/3/19	2'	Pad	Excavated	<0.00202	<0.00202	<50.2	<50.2	<50.2	<50.2	<50.2	**604**
WEWSW2b	12/5/19	2'	Pad	In Situ	--	--	--	--	--	--	--	180
Closure Reclamation Standard					**10**	**50**	**-**	**-**	**-**	**-**	**100**	**600**
Closure Criteria					**10**	**50**	**-**	**-**	**1,000**	**-**	**2,500**	**20,000**

NOTES:

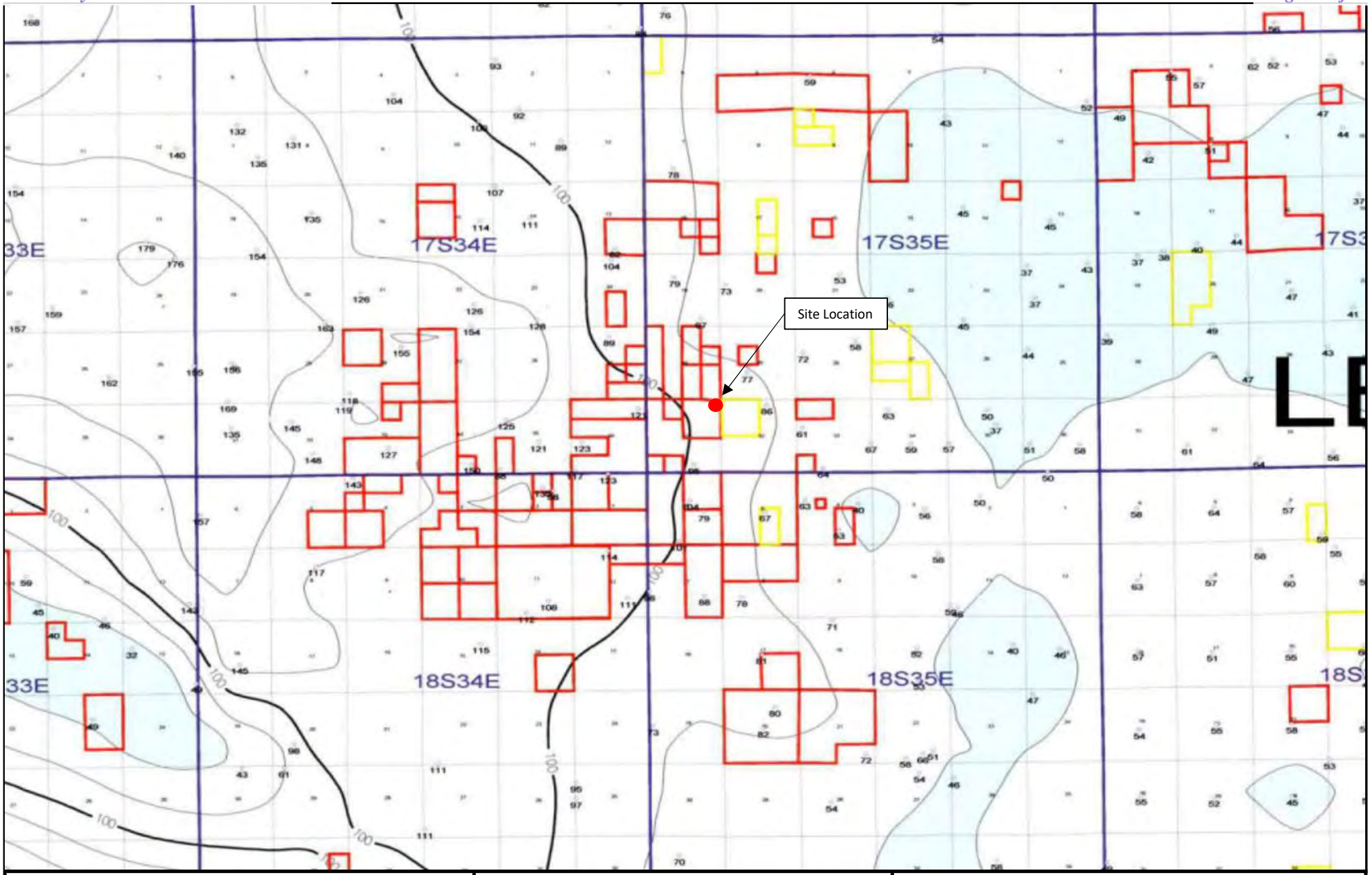
- = Not analyzed for constituent

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

APPENDICES

Appendix A

Groundwater Information



Legend:

Site Location

Figure 4

Inferred Depth to Groundwater Trend Map

Chevron Environmental Management Company

Central Vacuum Unit No. 47H

GPS: 32.796975, -103.490644

Lea County

eTECH Environmental & Safety Solutions, Inc.

Drafted: Checked: jwl Date: 12/31/19

Received by OCD: 2/13/2020 11:53:52 AM

Page 30 of 650

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 14183 POD2		L	LE	3	2	2	31	17S	35E	641304	3629691	99	227	105	122
L 14183 POD3		L	LE	3	2	2	31	17S	35E	641213	3629731	126	227	104	123
L 14183 POD1		L	LE	3	2	2	31	17S	35E	641266	3629667	134	229	106	123
L 03875 S2	R	L	LE			2	31	17S	35E	641131	3629576*	288	120	95	25
L 03875 S4		L	LE			2	31	17S	35E	641131	3629576*	288	120		
L 03874		L	LE	3	1	2	31	17S	35E	640823	3629678*	514	229	90	139
L 03875 POD6		L	LE		3	4	30	17S	35E	640919	3630183*	567	140	104	36
L 03875 POD7		L	LE		3	4	30	17S	35E	640919	3630183*	567	140	104	36
L 03875 POD8		L	LE		3	4	30	17S	35E	640919	3630183*	567	140	104	36
L 03875 S	R	L	LE		3	4	30	17S	35E	640919	3630183*	567	120	96	24
L 03875 S3	R	L	LE		3	4	30	17S	35E	640919	3630183*	567	120	95	25
L 03875		L	LE	3	3	4	30	17S	35E	640818	3630082*	586	147		
L 03876		L	LE	3	3	4	30	17S	35E	640818	3630082*	586	141		
L 13804 POD1		L	LE	2	2	1	31	17S	35E	640572	3629790	754	157	115	42
L 13804 POD2		L	LE	2	2	1	31	17S	35E	640532	3629826	795	130	115	15

Average Depth to Water: **102 feet**

Minimum Depth: **90 feet**

Maximum Depth: **115 feet**

Record Count: 15

Basin/County Search:

County: Lea

UTMNAD83 Radius Search (in meters):

Easting (X): 641326 **Northing (Y):** 3629788 **Radius:** 804.67

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

POD Number		POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 14183 POD2		L	LE	3	2	2	31	17S	35E	641304	3629691	99	227	105	122
L 14183 POD3		L	LE	3	2	2	31	17S	35E	641213	3629731	127	227	104	123
L 14183 POD1		L	LE	3	2	2	31	17S	35E	641266	3629667	135	229	106	123
L 03875 S2	R	L	LE			2	31	17S	35E	641131	3629576*	288	120	95	25
L 03875 S4		L	LE			2	31	17S	35E	641131	3629576*	288	120		
L 03874		L	LE	3	1	2	31	17S	35E	640823	3629678*	515	229	90	139
L 03875 POD6		L	LE		3	4	30	17S	35E	640919	3630183*	567	140	104	36
L 03875 POD7		L	LE		3	4	30	17S	35E	640919	3630183*	567	140	104	36
L 03875 POD8		L	LE		3	4	30	17S	35E	640919	3630183*	567	140	104	36
L 03875 S	R	L	LE		3	4	30	17S	35E	640919	3630183*	567	120	96	24
L 03875 S3	R	L	LE		3	4	30	17S	35E	640919	3630183*	567	120	95	25
L 03875		L	LE	3	3	4	30	17S	35E	640818	3630082*	587	147		
L 03876		L	LE	3	3	4	30	17S	35E	640818	3630082*	587	141		
L 13804 POD1		L	LE	2	2	1	31	17S	35E	640572	3629790	754	157	115	42
L 13804 POD2		L	LE	2	2	1	31	17S	35E	640532	3629826	795	130	115	15

Average Depth to Water: **102 feet**

Minimum Depth: **90 feet**

Maximum Depth: **115 feet**

Record Count: 15

UTMNAD83 Radius Search (in meters):

Easting (X): 641326.6 **Northing (Y):** 3629788.39 **Radius:** 880

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/27/2019 nmwrrs.ose.state.nm.us/ReportDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=L&nbr=03874&suffix=

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	Tws	Rng	X	Y
	L 03874	3	1	2	31	17S	35E	640823	3629678*

Driller License: 281 **Driller Company:** PRUETT, OTIS H.

Driller Name: OTIS H. PRUETT

Drill Start Date:	10/01/1958	**Drill Finish Date:**	10/10/1958	**Plug Date:**	
Log File Date:	10/15/1958	**PCW Rcv Date:**	05/07/1959	**Source:**	Shallow
Pump Type:	TURBIN	**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	8.63	**Depth Well:**	229 feet	**Depth Water:**	90 feet

Water Bearing Stratifications:	Top	Bottom	Description
	90	229	Sandstone/Gravel/Conglomerate

Meter Number:	8598	**Meter Make:**	SPARLING
Meter Serial Number:	43839	**Meter Multiplier:**	1.0000
Number of Dials:	6	**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
01/01/2005	2005	882350	A	jw		0
04/08/2005	2005	882350	A	jw		0
07/19/2005	2005	882350	A	jw		0
10/05/2005	2005	882350	A	jw		0
01/19/2006	2005	882350	A	RPT		0
04/19/2006	2006	882350	A	RPT		0

**YTD Meter Amounts:	Year	Amount
	2005	0
	2006	0

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

nmwrrs.ose.state.nm.us/ReportDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=L&nbr=03874&suffix= 1/1
Released to Imaging: 8/2/2021 4:21:03 PM

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	L 03875 POD6	3	4		30	17S	35E	640919	3630183*

Driller License:	1478	**Driller Company:**	STRAUB CORPORATION		
Driller Name:	R.S.				
Drill Start Date:	06/16/1999	**Drill Finish Date:**	06/17/1999	**Plug Date:**	
Log File Date:	06/28/1999	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	0 GPM
Casing Size:	5.00	**Depth Well:**	140 feet	**Depth Water:**	104 feet

Water Bearing Stratifications:	Top	Bottom	Description
	104	140	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	100	140

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	L 03875 POD7	3	4		30	17S	35E	640919	3630183*

Driller License:	1478	**Driller Company:**	STRAUB CORPORATION		
Driller Name:	R.S. STRAUB				
Drill Start Date:	06/15/1999	**Drill Finish Date:**	06/16/1999	**Plug Date:**	
Log File Date:	06/28/1999	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	0 GPM
Casing Size:	5.00	**Depth Well:**	140 feet	**Depth Water:**	104 feet

Water Bearing Stratifications:	Top	Bottom	Description
	104	140	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	100	140

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	L 03875 POD8	3	4		30	17S	35E	640919	3630183*

Driller License:	1478	**Driller Company:**	STRAUB CORPORATION		
Driller Name:	R.L. STRAUB				
Drill Start Date:	06/17/1999	**Drill Finish Date:**	06/18/1999	**Plug Date:**	
Log File Date:	06/28/1999	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	0 GPM
Casing Size:	5.00	**Depth Well:**	140 feet	**Depth Water:**	104 feet

Water Bearing Stratifications:	Top	Bottom	Description
	104	140	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	80	140

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	L 03875 S	3	4		30	17S	35E	640919	3630183*

Driller License:	882	**Driller Company:**	LARRY'S DRILLING & PUMP CO.		
Driller Name:	LARRY FELKINS				
Drill Start Date:	03/27/1990	**Drill Finish Date:**	03/28/1990	**Plug Date:**	
Log File Date:	06/15/1990	**PCW Rcv Date:**	07/09/1990	**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**	1.25	**Estimated Yield:**	3 GPM
Casing Size:	6.00	**Depth Well:**	120 feet	**Depth Water:**	96 feet

Water Bearing Stratifications:	Top	Bottom	Description
	95	115	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	94	112

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	L 03875 S2			2	31	17S	35E	641131	3629576*

Driller License:	882	**Driller Company:**	LARRY'S DRILLING & PUMP CO.		
Driller Name:	LARRY FELKINS				
Drill Start Date:		**Drill Finish Date:**	03/25/1990	**Plug Date:**	
Log File Date:	02/06/1991	**PCW Rcv Date:**	03/16/1992	**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**	1.25	**Estimated Yield:**	3 GPM
Casing Size:	4.50	**Depth Well:**	120 feet	**Depth Water:**	95 feet

Water Bearing Stratifications:	Top	Bottom	Description
	95	120	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	91	106

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	L 03875 S3		3	4	30	17S	35E	640919	3630183*

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

Driller License:	882	**Driller Company:**	LARRY'S DRILLING & PUMP CO.		
Driller Name:	LARRY FELKINS				
Drill Start Date:	04/08/1990	**Drill Finish Date:**	04/08/1990	**Plug Date:**	
Log File Date:	02/06/1991	**PCW Rcv Date:**	04/23/1992	**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**	1.25	**Estimated Yield:**	3 GPM
Casing Size:	4.50	**Depth Well:**	120 feet	**Depth Water:**	95 feet

Water Bearing Stratifications:	Top	Bottom	Description
	95	120	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	91	106

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64 Q16 Q4	Sec	Twn	Rng	X	Y
	L 03875 S4	2	31	17S	35E	641131	3629576*

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

Driller License:	882	**Driller Company:**	LARRY'S DRILLING & PUMP CO.		
Driller Name:	LARRY FELKINS				
Drill Start Date:		**Drill Finish Date:**	08/08/1990	**Plug Date:**	
Log File Date:	07/11/1991	**PCW Rcv Date:**	03/16/1992	**Source:**	Shallow
Pump Type:	SUBMER	**Pipe Discharge Size:**	1.25	**Estimated Yield:**	3 GPM
Casing Size:	4.50	**Depth Well:**	120 feet	**Depth Water:**	

Water Bearing Stratifications:	Top	Bottom	Description
	100	118	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	98	113

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

Received by OCD: 2/13/2020 11:53:52 AM

(Complete Form in Triplicate) Revised December 1966

PROOF OF COMPLETION OF WELL

RECEIVED: March 16, 1992 Permit No. L-3875-S-4

1. Name of Water Right Owner Phillips Petroleum Company
   Mailing address 4001 Penbrook
   City and State Odessa, Texas 79762

2. Permit is for Supplemental Well (supplemental well, change location of well) from Shallow (artesian or shallow) ground water.

3. Description of well:
   Located in the ____ ¼ ____ ¼ NE ¼, of Sec. 31 Twp. 17S Rge. 35E N.M.P.M., or Tract No. ____ of Map No. ____ of the ____ District; total depth, 120 feet; is well cased yes; outside diameter of top casing (or hole, if uncased), 4 inches; if artesian, is well equipped with gate valve ____; date drilled August 8, 1990; Name of driller Larry Felkin's Drilling.

4. Record of Pumping Test, if made (to be supplied by person or firm making test); Name and address of person making test, ____;
   date of test ____ 19____; depth to water before test, ____ feet ____ (above, below) land surface,
   and pumping level during test, ____ feet; length of test, ____ hours; average discharge, ____ G.P.M.; specific capacity of well, ____ gals./min. per foot of drawdown.

5. Permanent Pump Equipment:
   (a) Description of pump: Make Grundfos 10S059; Type 4" 1/2 H.P. submersible; size of discharge 1 1/4" inches; if turbine type, give size of column, ____ inches; diameter of bowls ____ inches; number of bowls ____; length of suction pipe ____ feet; total length of column, bowls and suction pipe ____ feet; if centrifugal type, give size of pump ____ inches: if other type, describe ____;
   rated capacity of pump (if known), ____ G.P.M., at ____ rev. per min., from a depth of ____ feet.

   (b) Description of power plant: Make N/A; Type ____;
   rated horsepower (if available) ____; type of drive connection to pump ____ (direct, gearhead, or belt).

   (c) Actual discharge of pump, 3 G.P.M., at ____ rev. per min., from a depth of 112 feet;
   Date of test ____ 19____.

6. If reservoir is used, give approximate size: length ____ feet; width ____; depth ____.

7. If above well replaced an old well to be plugged or abandoned, fill out the following: the well abandoned is located in the N/A ¼ ____ ¼ ____ ¼ of Sec. ____, Twp. ____, Rge. ____.

   Describe plugging method ____
   Name of plugging contractor ____

8. Well Record filed with State Engineer's Office Yes (Yes or No).

STATE ENGINEER OFFICE ROSWELL, NEW MEXICO MAR 16 AM 11 00

I, Randall Hicks, affirm that the foregoing statements are true to the best of my knowledge and belief and that I am the agent for (sole, partial, agent for, etc.,) owner and holder of said water right.

Phillips Petroleum Co., Permittee

By: Randall T. Hicks

STATEMENT OF STATE ENGINEER'S REPRESENTATIVE

Released to Imaging: 8/2/2021 4:21:03 PM

I hereby certify that I have inspected the above well and find it constructed in accordance with the conditions

STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ELUID MARTINEZ
STATE ENGINEER

ROSWELL

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
(505) 622-6521

March 23, 1992

Files: L-3875-S-2; L-3875-S-4

Phillips Petroleum Company
c/o GCL
500 Copper Ave. NW, Suite 200
Albuquerque, NM 87102

Gentlemen:

Enclosed are your copies of Proofs of Completion of Well Nos. L-3875-S-2 and L-3875-S-4, which have been accepted for filing.

Yours very truly,

Johnny R. Hernandez
Lea County Basin Supervisor

JRH/fh
Encls.

cc: Santa Fe

ROUTING SLIP

To: Field Supervisor (Basin) or (County) LEA BASIN

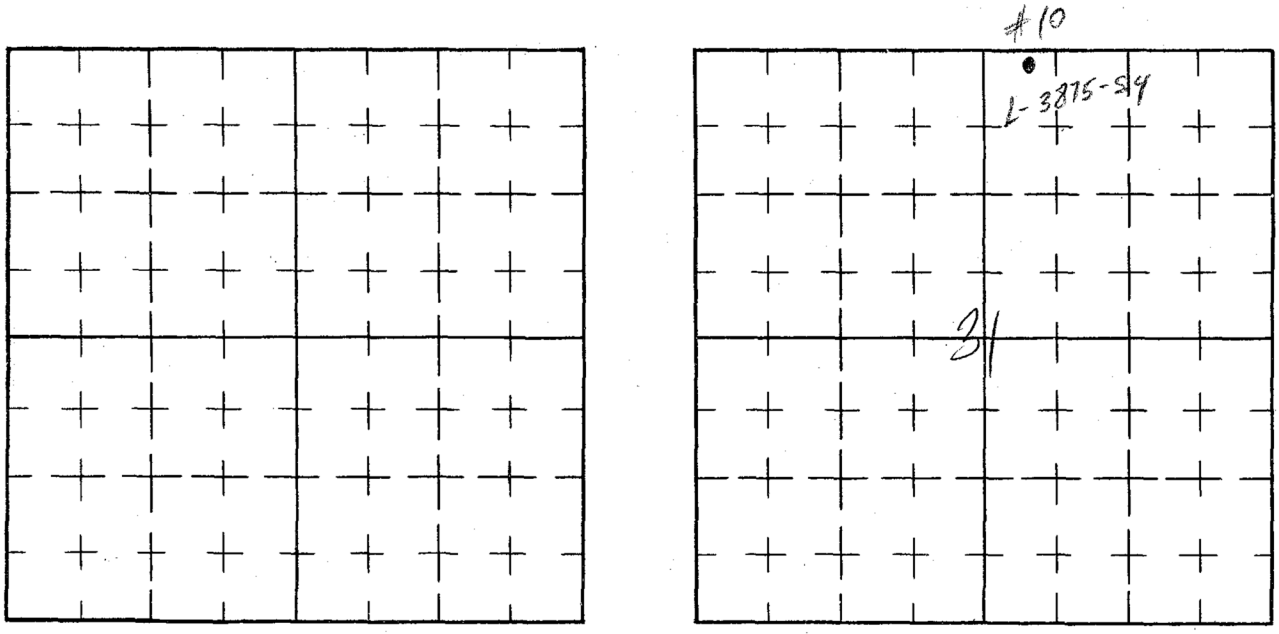
From: _____ Applicant PHILLIPS PETROLEUM COMPANY

Land Location _____

Field Check Requested For the Following Reasons Date: September 4, 1991

Proof of Completion of Works..... ☐
Proof of Beneficial Use..... ☐
Declaration..... ☐
Extension of Time..... ☐
Illegal Irrigation..... ☐
Supplemental Well..... ☐
Leakage Test..... ☐
Cementing (water-oil)..... ☐
Reduction from Irr. or Dom. ..... ☐
Pressure Test..... ☐
Inspect Casing..... ☐
Others WR ..... ☒

Sec. ____ T. ____ R. ____ Sec. ____ T. ____ R. ____



Old Well (plugged-retained-reduced)

REMARKS: SUPP WELL (MONITOR WELL MW-10) permitted for SW¼SE¼ 30-17S-35E

NW NW NE

Received by OCD: 2/13/2020 11:53:52 AM

WR-36

FIELD REPORT FOR CEMENTING OF WELLS

Name of Applicant _____

Name of Well _____

Driller's Name _____

Drilling Method _____

CASING DATA:
Surface _____ feet of _____ inch. Grade _____

Inspected by _____ on _____

(Approved)(Rejected) _____

Water string _____ feet of _____ inch. Grade _____

Inspected by _____ on _____

(Approved)(Rejected) _____

Oil string _____ feet of _____ inch. Grade _____

Inspected by _____ on _____

(Approved)(Rejected) _____

CEMENTING PROGRAM:
Cemented by _____ Supervised by _____

Type of shoe used _____ Float collar used _____

Bottom three joints welded _____ Cement: around shoe _____ sks. _____

around casing _____ sks. _____ Additives _____

_____ _____ _____

Size of hole _____ Size of casing _____ sks. of cement required ____

Plug pumped down _____ (a.m.)(p.m.) _____

Cement circulated _____ No. of sacks _____

Temp. survey ran _____ (a.m.)(p.m.) _____ Cement at _____ feet

Temp. survey ran _____ (a.m.)(p.m.) _____ Cement at _____ feet

Checked for shut off _____ (a.m.) (p.m.) _____

Method used _____ Supervised by _____

Checked for shut off _____ (a.m.) (p.m.) _____

Method used _____ Supervised by _____

REMARKS: _____

Released to Imaging: 8/2/2021 4:21:03 PM

8/27/2019 nmwrrs.ose.state.nm.us/ReportDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=L&nbr=03875&suffix=

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	Tws	Rng	X	Y
	L 03875	3	3	4	30	17S	35E	640818	3630082*

Driller License: 122 **Driller Company:** UNKNOWN

Driller Name: ED C. BURKE

Drill Start Date: **Drill Finish Date:** 05/06/1944 **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 75 GPM

Casing Size: 8.63 **Depth Well:** 147 feet **Depth Water:**

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

nmwrrs.ose.state.nm.us/ReportDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=L&nbr=03875&suffix= 1/1
Released to Imaging: 8/2/2021 4:21:03 PM

8/27/2019 nmwrrs.ose.state.nm.us/ReportDispatcher?type=PODGHTML&name=PodGroundSummaryHTML.jrxml&basin=L&nbr=03876&suffix=

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twns	Rng	X	Y
	L 03876	3	3	4	30	17S	35E	640818	3630082*

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

Driller License: 122 **Driller Company:** UNKNOWN

Driller Name: ED C. BURKE

Drill Start Date: **Drill Finish Date:** 12/02/1941 **Plug Date:**

Log File Date: **PCW Rcv Date:** **Source:**

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 50 GPM

Casing Size: 8.63 **Depth Well:** 141 feet **Depth Water:**

***UTM location was derived from PLSS - see Help**

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twws	Rng	X	Y
	L 13804 POD1	2	2	1	31	17S	35E	640572	3629790

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

Driller License: 1731 **Driller Company:** HARRISON & COOPER, INC (WD-1731)

Driller Name: COOPER, KENNY

Drill Start Date: 03/03/2015 **Drill Finish Date:** 03/13/2015 **Plug Date:**

Log File Date: 03/30/2015 **PCW Rcv Date:** **Source:** Shallow

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

Casing Size: 4.00 **Depth Well:** 157 feet **Depth Water:** 115 feet

Water Bearing Stratifications:	Top	Bottom	Description
	95	157	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	107	147

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	L 13804 POD2	2	2	1	31	17S	35E	640532	3629826

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

Driller License: 1731 **Driller Company:** HARRISON & COOPER, INC (WD-1731)

Driller Name: COOPER, KENNY

Drill Start Date:	03/13/2015	**Drill Finish Date:**	03/13/2015	**Plug Date:**	
Log File Date:	03/30/2015	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	2.00	**Depth Well:**	130 feet	**Depth Water:**	115 feet

Water Bearing Stratifications:	Top	Bottom	Description
	95	130	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	110	130

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

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	Tws	Rng	X	Y
	L 14183 POD1	3	2	2	31	17S	35E	641266	3629667

Driller License:	1731	**Driller Company:**	HARRISON & COOPER, INC (WD-1731)		
Driller Name:	COOPER, KENNY				
Drill Start Date:	09/22/2016	**Drill Finish Date:**	09/23/2016	**Plug Date:**	
Log File Date:	10/17/2016	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	55 GPM
Casing Size:	4.00	**Depth Well:**	229 feet	**Depth Water:**	106 feet

Casing Perforations:	Top	Bottom
	79	229

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

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	Tws	Rng	X	Y
	L 14183 POD2	3	2	2	31	17S	35E	641304	3629691

Driller License:	1731	**Driller Company:**	HARRISON & COOPER, INC (WD-1731)		
Driller Name:	COOPER, KENNY				
Drill Start Date:	09/22/2016	**Drill Finish Date:**	09/22/2016	**Plug Date:**	
Log File Date:	10/17/2016	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	55 GPM
Casing Size:	4.00	**Depth Well:**	227 feet	**Depth Water:**	105 feet

Casing Perforations:	Top	Bottom
	62	227

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Released to Imaging: 8/2/2021 4:21:03 PM

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	Tws	Rng	X	Y
	L 14183 POD3	3	2	2	31	17S	35E	641213	3629731

Driller License:	1731	**Driller Company:**	HARRISON & COOPER, INC (WD-1731)		
Driller Name:	COOPER, KENNY				
Drill Start Date:	09/21/2016	**Drill Finish Date:**	09/22/2016	**Plug Date:**	
Log File Date:	10/17/2016	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	55 GPM
Casing Size:	4.00	**Depth Well:**	227 feet	**Depth Water:**	104 feet

Casing Perforations:	Top	Bottom
	62	227

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

WELL PLUGGING PLAN OF OPERATIONS

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email nmbg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP: ☑ Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: L-14183-POD1

Name of well owner: Chevron Environmental Management Company

Mailing address: ~~1400 Smith St, Office 07084~~ 1500 Smith St, office 38116 County: US

City: Houston State: Texas Zip code: ~~07020~~ 77002

Phone number: ~~713-372-0289~~ 832-854-5601 E-mail: jmichelson@chevron.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Kenneth D. Cooper - HCI Drilling

New Mexico Well Driller License No.: WD-1731 Expiration Date: 02/28/2020

IV. WELL INFORMATION: ☐ **Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.**

Note: A copy of the existing Well Record for the well(s) to be plugged should be attached to this plan.

1) GPS Well Location: Latitude: 32 deg, 47 min, 45.2 sec
Longitude: 103 deg, 29 min, 28.7 sec, NAD 83

2) Reason(s) for plugging well(s):

Three monitor wells will be plugged and abandoned for site closure.

3) Was well used for any type of monitoring program? Yes If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

4) Does the well tap brackish, saline, or otherwise poor quality water? NA If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: 106 feet below land surface / feet above land surface (circle one)

6) Depth of the well: 230 feet

7) Inside diameter of innermost casing: 4 inches.

8) Casing material: PVC

9) The well was constructed with:

☐ an open-hole production interval, state the open interval: _____

☒ a well screen or perforated pipe, state the screened interval(s): 200'-230'

10) What annular interval surrounding the artesian casing of this well is cement-grouted? NA

11) Was the well built with surface casing? NO If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? _____ If yes, please describe:

12) Has all pumping equipment and associated piping been removed from the well? NA If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

☐ **If plugging method differs between multiple wells on same site, a separate form must be completed for each method.**

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal. Attach a copy of any signed OSE variance to this plugging plan.

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

An attempt will be made to pull the temporary well from the borehole. The borehole will then be pressure grouted with a 5% bentonite/cement mixture to 3ft bgs and backfilled with clean fill. If the temporary well cannot be removed, the well casing will be cut off 3ft bgs. The well will then be pressure grouted to 3' bgs and backfilled with clean fill.

2) Will well head be cut-off below land surface after plugging? 3 ft bgs

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

1) For plugging intervals that employ cement grout, complete and attach Table A.

2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.

3) Theoretical volume of grout required to plug the well to land surface: 156.4 gallons

4) Type of Cement proposed: 5% Bentonite/Cement Slurry

5) Proposed cement grout mix: 6.5 gallons of water per 94 pound sack of Portland cement.

6) Will the grout be: _____ batch-mixed and delivered to the site

X mixed on site

7) Grout additives requested, and percent by dry weight relative to cement:

5% dry weight of Bentonite.

8) Additional notes and calculations:

NA

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

VIII. SIGNATURE:

I, Russell Grant on behalf of CEMC, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

Signature of Applicant — Date: 10/15/2019

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

✓ Approved subject to the attached conditions.
_____ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 17th day of October, 2019

John R. D'Antonio Jr. P.E., New Mexico State Engineer

By: _____

TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)			3' bgs
Bottom of proposed interval of grout placement (ft bgl)			230' bgs
Theoretical volume of grout required per interval (gallons)			Estimated 156.4 gallons
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			6.5 Gallons
Mixed on-site or batch-mixed and delivered?			Mixed On Site
Grout additive 1 requested			Bentonite
Additive 1 percent by dry weight relative to cement			5%
Grout additive 2 requested			NA
Additive 2 percent by dry weight relative to cement			NA

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)			
Bottom of proposed sealant of grout placement (ft bgl)			
Theoretical volume of sealant required per interval (gallons)			
Proposed abandonment sealant (manufacturer and trade name)			

Released to Imaging: 8/2/2021 4:21:03 PM

NEW MEXICO OFFICE OF THE STATE ENGINEER

ATTACHMENT to WD-08 Plan of Plugging
MULTIPLE MONITORING WELL DESCRIPTIONS

This Attachment is to be completed if more than one (1) monitoring well is to be plugged using the same method.

Location (Required):

☐ NM State Plane (NAD83) (Feet) ☐ NM West Zone ☐ NM Central Zone ☐ NM East Zone	☐ UTM (NAD83) (Meters) ☐ Zone 13N ☐ Zone 12N	■ Lat/Long (WGS84) (1/10th of second)	OTHER (allowable only for move-from descriptions - see application form for format) ☐ PLSS (quarters, section, township, range) ☐ Hydrographic Survey, Map & Tract ☐ Lot, Block & Subdivision ☐ Grant

OSE POD Number:	Other Well ID:	X or Longitude (ddmmss):	Y or Latitude (ddmmss):	Other Location Info (PLSS):	Casing ID- (inches):	Depth to Water- (ft bgs):	Total well Depth- (ft bgs):	Grout Volume:	Surface Casing (Y or N):
L-14183-POD2		32 47 45.9 N	103 29 27.2 W		4"	107	230	156.4 gallons	NO
L-14183-POD3		32 47 47.3 N	103 29 30.7 W		4"	107	230	156.4 gallons	NO

FOR OSE INTERNAL USE Multiple Montioring POD Descriptions, Form wr-08m (Rev 7/31/19)

File Number:	Trn Number:
Trans Description (optional):	

Specific Conditions of Approval
L-14183-POD1, L-14183-POD2, L-14183-POD3

1) Attempt to pull the casing from the borehole.

   a) If casing cannot be pulled then cutoff 3' below ground surface.

2) Run tremie pipe to the bottom of the borehole and pump 5% Bentonite/ Portland Type I-II with a mix of 6.5 gallons of water per 94 pound sack to within three feet of surface.

   a) Bentonite must be hydrated separately and then mixed.

3) Any deviation from this plan must obtain an approved variance from this office prior to implementation.

4) A complete plugging record shall be submitted with O.S.E. District II office no later than 30 days after the plugging.

5) Aggrieval of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Sincerely,

Christopher Angel, PG
Water Resources Professional II
Water Resource Allocation Program
Water Rights Division

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
District 2 Office, Roswell, NM

John R. D'Antonio Jr. , P.E.
State Engineer

1900 West Second Street
Roswell, New Mexico 88201
(575) 622-6521
FAX: (575) 623-8559

October 17, 2019

Chevron Environmental Management Company
Attn: Jason Michelson
1500 Smith Street, Office 38116
Houston, Texas 77002

RE: *Well Plugging Plan of Operations* for *L-14183-POD1, L-14183-POD2, L-14183-POD3*

Greetings:

Enclosed is your copy of Well Plugging Plan of Operations for the above referenced project, which has been approved subject to the attached Specific Conditions of Approval. The following conditions of approval have been developed to ensure compliance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017, by the State Engineer.

Aggrieval of this permit, or any of the conditions of approval therein, suspends the permit. No plugging operations shall occur while a permit is aggrieved.

Sincerely,

Christopher Angel, PG
Water Resources Professional II
Water Resource Allocation Program
Water Rights Division

Enclosure
cc Santa Fe



Legend:

- Site Location
- USGS Water Well

Figure 5
USGS Well Proximity Map
Chevron Environmental Management Company
Central Vacuum Unit No. 47H
GPS: 32.796975, -103.490644
Lea County

ETECH Environmental & Safety Solutions, Inc.

Drafted: Checked: jwl Date: 12/31/19

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater ▼ Geographic Area: United States ▼ GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 324737103301401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

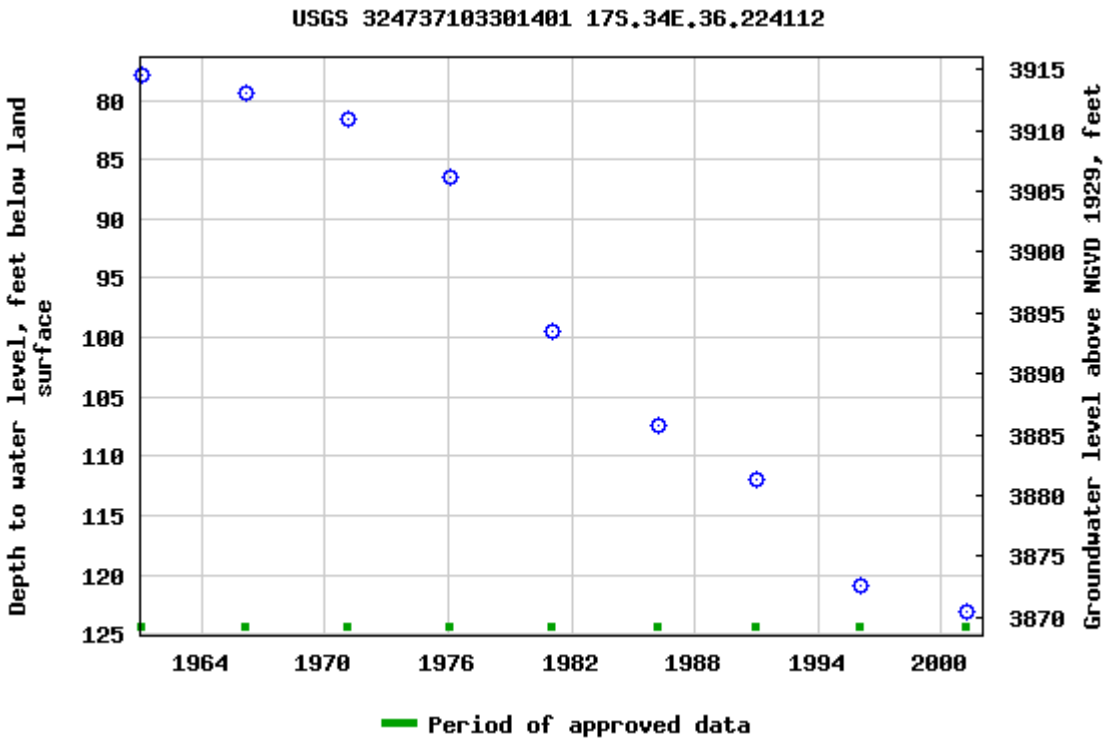
USGS 324737103301401 17S.34E.36.224112

Available data for this site Groundwater: Field measurements ▼ GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°47'48", Longitude 103°30'24" NAD27
Land-surface elevation 3,993.00 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-08-27 13:19:59 EDT
1.05 0.96 nadww02

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater ▼ Geographic Area: United States ▼ GO

* We've detected you're using a mobile device. Find our mobile dedicated web site here.

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 324821103300801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

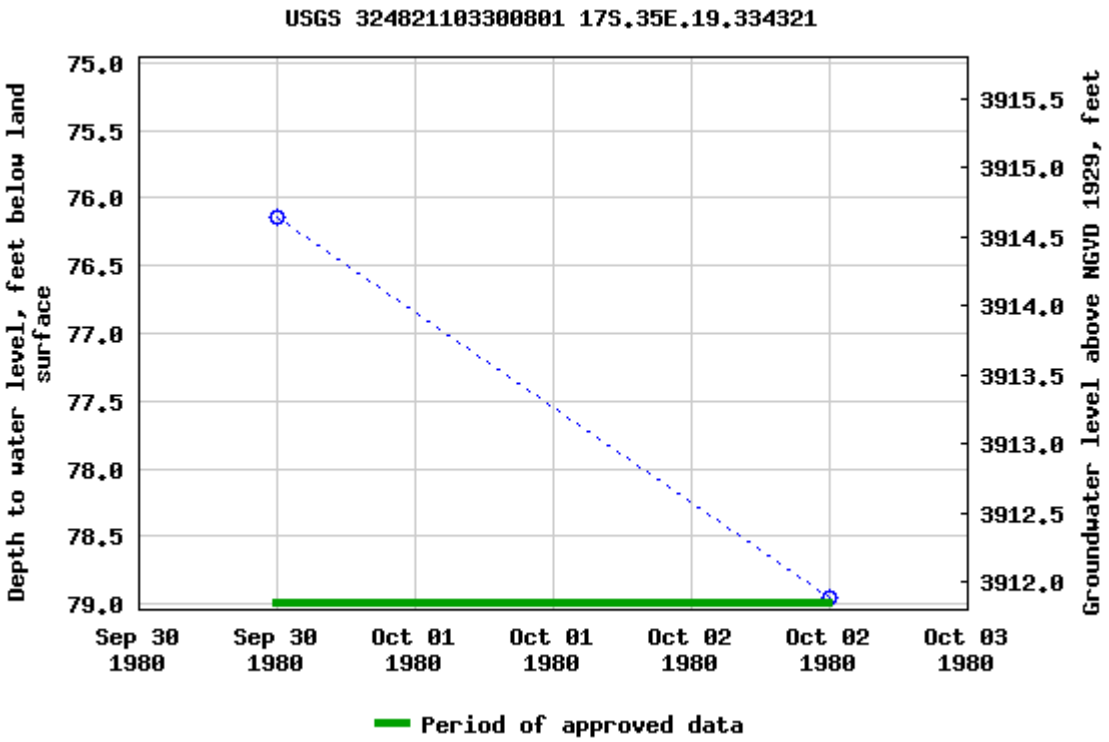
USGS 324821103300801 17S.35E.19.334321

Available data for this site Groundwater: Field measurements ▼ GO

Lea County, New Mexico
Hydrologic Unit Code 12080003
Latitude 32°48'21", Longitude 103°30'08" NAD27
Land-surface elevation 3,990.8 feet above NGVD29
The depth of the well is 244 feet below land surface.
The depth of the hole is 244 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-08-27 13:21:01 EDT
1.22 1.09 nadww01

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater ▼ Geographic Area: United States ▼ GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 324759103284501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

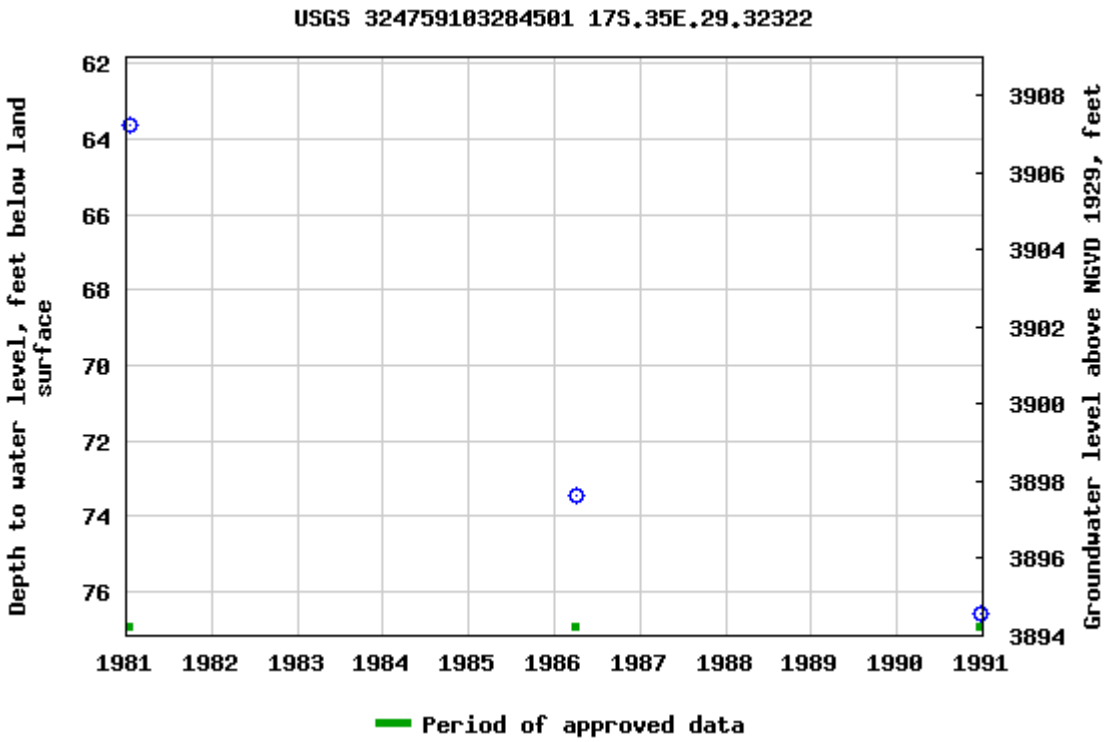
USGS 324759103284501 17S.35E.29.32322

Available data for this site Groundwater: Field measurements ▼ GO

Lea County, New Mexico
Hydrologic Unit Code 12080003
Latitude 32°48'14", Longitude 103°28'55" NAD27
Land-surface elevation 3,971.00 feet above NGVD29
The depth of the well is 200 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-08-27 13:21:29 EDT
1.45 0.92 nadww01

USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater ▼ Geographic Area: United States ▼ GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 324740103282801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

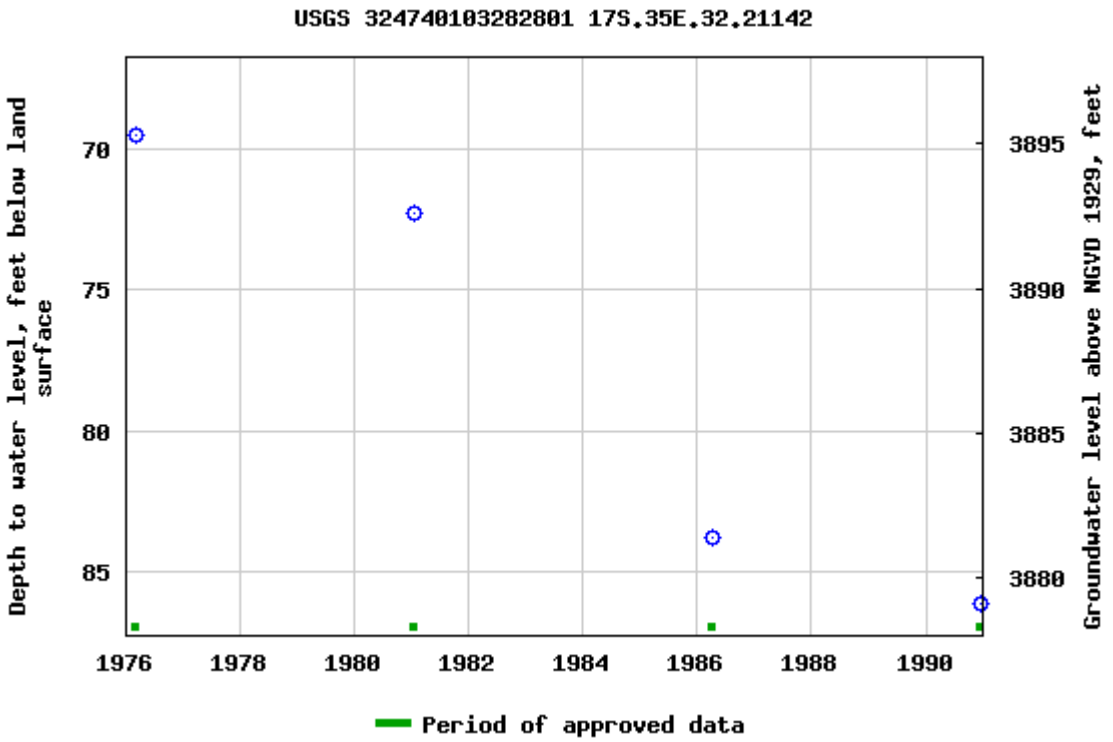
USGS 324740103282801 17S.35E.32.21142

Available data for this site Groundwater: Field measurements ▼ GO

Lea County, New Mexico
Hydrologic Unit Code 12080003
Latitude 32°47'51", Longitude 103°28'39" NAD27
Land-surface elevation 3,965.00 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-08-27 13:22:01 EDT
1.04 0.99 nadww02

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater ▼ Geographic Area: United States ▼ GO

Click to hideNews Bulletins

- Introducing The Next Generation of USGS Water Data for the Nation
- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 324657103292801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

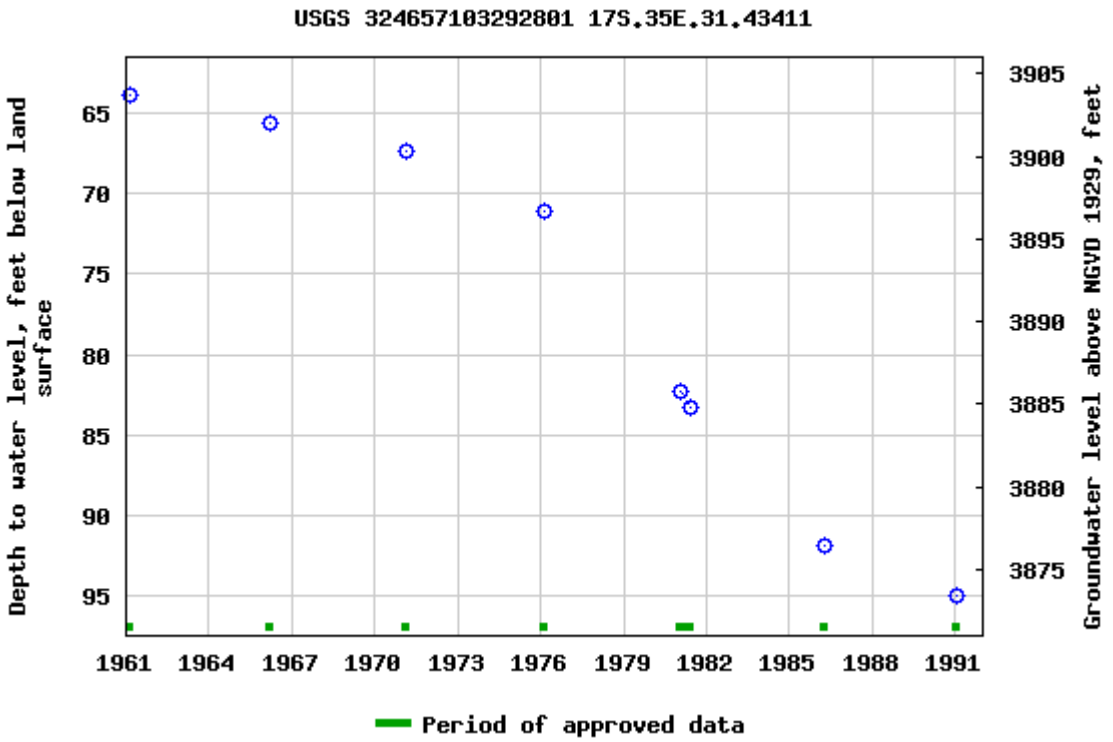
USGS 324657103292801 17S.35E.31.43411

Available data for this site Groundwater: Field measurements ▼ GO

Lea County, New Mexico
Hydrologic Unit Code 13070007
Latitude 32°47'08", Longitude 103°29'38" NAD27
Land-surface elevation 3,968.00 feet above NGVD29
The depth of the well is 146 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
Download a presentation-quality graph

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2019-08-27 13:22:41 EDT
1 0.94 nadww02

Appendix B

Soil Boring Logs

SOIL BORING LOG

Project: CVU-47H Soil Boring Assesment Activities
Unit A, Section 31, T17S, R35E
Lea County, New Mexico No. SB-3

Client: CEMC
Houston, Texas

File No.: 73821
Date: 12/17/2012
Drilling Co.: Harrison and Cooper, Inc.
Supervisor: Kenny Cooper
Type Rig: Air Rotary
Logged by: Joey Lewandowski

LABORATORY TEST DATA (Results Reported in mg/kg)					FIELD DATA				BORING DATA	
Benzene	Toluene	Ethyl-benzene	Xylenes	Total TPH (C6-C35)	PID Reading PPM	Sampling	Depth (feet)	Water Level	Screen Interval	Start Time: 1220 Finish Time: 1245
							5			Caliche: White, tan, indurated at bottom of unit, dense
						X	10			
							15			Silty Sand: Tan, loose to firm, dry
						X	20			
							25			
						X	30			
							35			
						X	40			

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Water First Noted

Analyzed Sample

SOIL BORING LOG

Project: CVU-47H Soil Boring Assesment Activities
Unit A, Section 31, T17S, R35E
Lea County, New Mexico No. SB-3

Client: CEMC
Houston, Texas

File No.: 73821
Date: 12/17/2012
Drilling Co.: Harrison & Cooper, Inc.
Supervisor: Kenny Cooper
Type Rig: Air Rotary
Logged by: Joey Lewandowski

LABORATORY TEST DATA (Results Reported in mg/kg)					FIELD DATA				BORING DATA	
Benzene	Toluene	Ethyl-benzene	Xylenes	Total TPH (C6-C35)	Photo-Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Interval	Start Time: 1245 Finish Time: 1256
										Silty Sand: Tan, brown, only minor firm streaks, dry
							45			
						X	50			TD
							55			
							60			
							65			
							70			
							75			
							80			

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Water First Noted

Analyzed Sample

SOIL BORING LOG

Project: CVU-47H Soil Boring Assesment Activities
Unit A, Section 31, T17S, R35E
Lea County, New Mexico No. SB-4

Client: CEMC
Houston, Texas

File No.: 73821
Date: 12/17/2012
Drilling Co.: Harrison and Cooper, Inc.
Supervisor: Kenny Cooper
Type Rig: Air Rotary
Logged by: Joey Lewandowski

LABORATORY TEST DATA (Results Reported in mg/kg)					FIELD DATA				BORING DATA	
Benzene	Toluene	Ethyl-benzene	Xylenes	Total TPH (C6-C35)	PID Reading PPM	Sampling	Depth (feet)	Water Level	Screen Interval	Start Time: 1326 Finish Time: 1403

Caliche: White, tan, dry dense to very dense. Indurated at bottom of unit with white-brown silty sand

5

X 10

15

Silty Sand: Tan to white, loose to firm, dry

X 20

25

X 30

35

X 40

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Water First Noted

Analyzed Sample

SOIL BORING LOG

Project: CVU-47H Soil Boring Assesment Activities
Unit A, Section 31, T17S, R35E
Lea County, New Mexico No. SB-4

Client: CEMC
Houston, Texas

File No.: 73821
Date: 12/17/2012
Drilling Co.: Harrison & Cooper, Inc.
Supervisor: Kenny Cooper
Type Rig: Air Rotary
Logged by: Joey Lewandowski

LABORATORY TEST DATA (Results Reported in mg/kg)					FIELD DATA				BORING DATA	
Benzene	Toluene	Ethyl-benzene	Xylenes	Total TPH (C6-C35)	Photo-Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Interval	Start Time: 1403 Finish Time: 1418
										Silty Sand: Tan, loose to firm, dry
							45			
						X	50			TD
							55			
							60			
							65			
							70			
							75			
							80			

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Water First Noted

Analyzed Sample

STRATIGRAPHIC LOG

PROJECT NAME: CVU-47H
PROJECT NUMBER: 073821
CLIENT: CEMC
LOCATION: Lea County, New Mexico

HOLE DESIGNATION: SB-1
DATE COMPLETED: August 19, 2015
DRILLING METHOD: Air Rotary
FIELD PERSONNEL: J. Fergerson

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	USCS
	Silty CLAY, dull brown, dry					CL-ML
	Caliche, dull yellowish orange, dense-weathered, dry	1.00		AIR	1.0	
2						
4						
6				AIR	1.0	
8						
10						
12	becomes light gray, weathered-dense, interbedded with poor-moderately cemented very fine grained sandstone			AIR	1.0	
14						
16				AIR	1.0	
18	SAND, light gray, very fine grained, unconsolidated with broken caliche in matrix, interbedded with poor-moderately cemented very fine grained sandstone, dry	18.00				SP
20						
22				AIR	1.0	
24	becomes dull orange, no caliche			AIR		

NOTES:

OVERBURDEN LOG NO DISC - USCS 073281-CVU-47H.GPJ ELEVATIONS.GDT 9/24/15

STRATIGRAPHIC LOG

PROJECT NAME: CVU-47H
PROJECT NUMBER: 073821
CLIENT: CEMC
LOCATION: Lea County, New Mexico

HOLE DESIGNATION: SB-1
DATE COMPLETED: August 19, 2015
DRILLING METHOD: Air Rotary
FIELD PERSONNEL: J. Fergerson

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	USCS
28	becomes light yellowish orange, moderate to well cemented very fine grained sandstone			AIR	1.0	
30						
32				AIR	1.0	
34	becomes light yellow					
36						
38				AIR	1.0	
40	becomes light yellowish orange					
42				AIR	1.0	
44						
46						
48				AIR	1.0	
50	BOREHOLE TERMINATED @ 50.0ft BGS	50.00				

NOTES:

OVERBURDEN LOG NO DISC - USCS 073281-CVU-47H.GPJ ELEVATIONS.GDT 9/24/15

STRATIGRAPHIC LOG

PROJECT NAME: CVU-47H
PROJECT NUMBER: 073821
CLIENT: CEMC
LOCATION: Lea County, New Mexico

HOLE DESIGNATION: SB-2
DATE COMPLETED: August 19, 2015
DRILLING METHOD: Air Rotary
FIELD PERSONNEL: J. Fergerson

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	USCS
	Well Pad Material, crushed caliche mixed with sand, dry					
2	Caliche, dull yellowish orange, dense-weathered, dry	2.00		AIR	1.0	
4						
6				AIR	1.0	
8						
10						
12	becomes light gray, weathered-dense, interbedded with poor-moderately cemented very fine grained sandstone			AIR	1.0	
14						
16				AIR	1.0	
18	SAND, light gray, very fine grained, unconsolidated with broken caliche in matrix, interbedded with poor-moderately cemented very fine grained sandstone, dry	18.00				SP
20						
22				AIR	1.0	
24						

NOTES:

OVERBURDEN LOG NO DISC - USCS 073281-CVU-47H.GPJ ELEVATIONS.GDT 9/24/15

STRATIGRAPHIC LOG

PROJECT NAME: CVU-47H
PROJECT NUMBER: 073821
CLIENT: CEMC
LOCATION: Lea County, New Mexico

HOLE DESIGNATION: SB-2
DATE COMPLETED: August 19, 2015
DRILLING METHOD: Air Rotary
FIELD PERSONNEL: J. Fergerson

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	USCS
26	becomes dull orange, no caliche					
28	becomes light yellowish orange, moderate to well cemented very fine grained sandstone			AIR	1.0	
30						
32				AIR	1.0	
34						
36						
38				AIR	1.0	
40						
42				AIR	1.0	
44						
46						
48				AIR	1.0	

NOTES:

OVERBURDEN LOG NO DISC - USCS 073281-CVU-47H.GPJ ELEVATIONS.GDT 9/24/15

STRATIGRAPHIC LOG

PROJECT NAME: CVU-47H
PROJECT NUMBER: 073821
CLIENT: CEMC
LOCATION: Lea County, New Mexico

HOLE DESIGNATION: SB-2
DATE COMPLETED: August 19, 2015
DRILLING METHOD: Air Rotary
FIELD PERSONNEL: J. Fergerson

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	USCS
52				AIR	1.0	
54						
56				AIR	1.0	
58						
60	becomes dull yellowish orange, slightly moist			AIR	1.0	
62						
64				AIR	1.0	
66						
68				AIR	1.0	
70	becomes moist					
72				AIR	1.0	
74						

NOTES:

OVERBURDEN LOG NO DISC - USCS 073281-CVU-47H.GPJ ELEVATIONS.GDT 9/24/15

STRATIGRAPHIC LOG

PROJECT NAME: CVU-47H
PROJECT NUMBER: 073821
CLIENT: CEMC
LOCATION: Lea County, New Mexico

HOLE DESIGNATION: SB-2
DATE COMPLETED: August 19, 2015
DRILLING METHOD: Air Rotary
FIELD PERSONNEL: J. Fergerson

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	USCS
76						
78				AIR	1.0	
80	BOREHOLE TERMINATED @ 80.0ft BGS	80.00				
82						
84						
86						
88						
90						
92						
94						
96						
98						

NOTES:

OVERBURDEN LOG NO DISC - USCS 073281-CVU-47H.GPJ ELEVATIONS.GDT 9/24/15

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico

HOLE DESIGNATION: SB-10
DATE COMPLETED: 18 October 2017
DRILLING METHOD: Air Rotary
FIELD PERSONNEL: Rebecca Jones

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE PP (tsf)	SAMPLE Chlorides (kg/mg)
	Top Soil	1.00					
	CALICHE, light brown, dry						
5	SILTY SAND (SM), light brown, some caliche, dry	5.00	4-5		1.0		55
10	CALICHE, white, dry	10.00	9-10		1.0		76
15							
20	SILTY SAND (SM), reddish brown, some caliche, dry	20.00	19-20		1.0		<28
25							
30	SILTY SAND (SM), reddish brown, some caliche, dry	30.00	29-30		1.0		28
35							
40	SILTY SAND (SM), reddish brown, some caliche, dry	40.00	39-40		1.0		<28
45							
50	SILTY SAND (SM), reddish brown, some caliche, dry	50.00	49-50		1.0		<28
55							
60	SILTY SAND (SM), reddish brown, some caliche, dry	60.00	59-60		1.0		<28
65							
70	SILTY SAND (SM), reddish brown, some caliche, dry	70.00	69-70		1.0		<28
75							
80	SILTY SAND (SM), reddish brown, some caliche, damp	80.00	79-80		1.0		<28
85							
90	END OF BOREHOLE @ 90.0ft BGS	90.00	89-90		1.0		<28
95							

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

NOTES:

LABORATORY ANALYSIS ( )

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-11
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
0	SAND (SP): fine, light grey, dry, contains caliche						
5			4	G	1.0		155
10	- increased silt content		10	G	1.0		<5.18
15							
20	SILTY SAND (SM): light grey, dry, contains caliche and gravels	20.00	20	G	1.0		<5.36
25							
30			30	G	1.0		<5.27
35							
40			40	G	1.0		<5.16
45							
50	- yellowish orange, dry		50	G	1.0		<5.28
55							
60			60	G	1.0		<5.28
65							
70			70	G	1.0		<5.2
75							
80	- light brown, moist		80	G	1.0		<5.23
85							
90	END OF BOREHOLE @ 90.0ft BGS	90.00	90	G	1.0		<5.29
95							

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS ( )

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-12
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
	SILTY SAND (SM): brown, dry, contains gravel		4	G	1.0		807
10	- greyish brown, dry, contains gravel		10	G	1.0		816
20	- light grey, dry		20	G	1.0		851
30	- light grey, dry, contains chert gravel		30	G	1.0		661
40	- yellowish orange, dry		40	G	1.0		72.4
50	- yellowish orange, dry, contains gravel		50	G	1.0		56.0
60			60	G	1.0		9.58
70			70	G	1.0		21.0
80			80	G	1.0		<5.30
90	- light brown, moist	90.00	90	G	1.0		<5.26
	END OF BOREHOLE @ 90.0ft BGS						

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS ( )

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-13
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
	SILTY SAND (SM): very light yellow orange, dry		4	G	1.0		8.79
			10	G	1.0		55.7
			20	G	1.0		6.54
			30	G	1.0		<5.42
	- yellow orange, dry		40	G	1.0		<5.45
			50	G	1.0		<5.43
			60	G	1.0		<5.27
			70	G	1.0		<5.27
	- light brown, moist		80	G	1.0		<5.34
	END OF BOREHOLE @ 90.0ft BGS	90.00	90	G	1.0		<5.29

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-14
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
0	SILTY SAND (SM): very light yellow orange, dry, contains caliche and gravel						
5			4	G	1.0		78.5
10			10	G	1.0		375
15							
20			20	G	1.0		84.4
25							
30			30	G	1.0		152
35							
40	- light brown, moist		40	G	1.0		38.7
45							
50			50	G	1.0		25.2
55							
60			60	G	1.0		23.1
65							
70			70	G	1.0		<5.29
75							
80			80	G	1.0		<5.32
85							
90	END OF BOREHOLE @ 90.0ft BGS	90.00	90	G	1.0		<5.34
95							

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-15
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
	SILTY SAND (SM): very light grey, dry		4	G	1.0		311
5							
10			10	G	1.0		368
15							
20			20	G	1.0		134
25							
30			30	G	1.0		124
35							
40	- yellow orange, moist		40	G	1.0		<5.30
45							
50			50	G	1.0		<5.29
55							
60			60	G	1.0		<5.28
65							
70			70	G	1.0		<5.32
75							
80			80	G	1.0		<5.28
85							
90	END OF BOREHOLE @ 90.0ft BGS	90.00	90	G	1.0		<5.37
95							

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS ( )

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-16
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
0	SILTY SAND (SM): light grey, dry, contains caliche and gravel		4	G	1.0		625
10	- very light grey, dry, and contains caliche		10	G	1.0		226
20			20	G	1.0		362
30	CHERT AND LIMESTONE: gravel, grey, dry	30.00	30	G	1.0		5.34
40	SANDY SILT (MLS): yellowish orange, dry	40.00	40	G	1.0		38.9
50			50	G	1.0		24.6
60			60	G	1.0		35.6
70			70	G	1.0		10.4
80	- yellowish orange, moist		80	G	1.0		6.19
90	END OF BOREHOLE @ 90.0ft BGS	90.00	90	G	1.0		25.2

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS ( )

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: MW-1
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary, and Mud Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	WELL CONSTRUCTION	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
0	CLAYEY SILT (MH-CL): light reddish brown, moist			4	G	1.0		843
10				10	G	1.0		735
20	SANDY SILT (MLS): light greyish brown, moist	20.00		20	G	1.0		2200
30	SILTY SAND (SM): light greyish brown, dry	30.00		30	G	1.0		1430
40				40	G	1.0		1570
50	- light brown, moist		Cement Bentonite Mix 4-inch SCH 40 PVC riser	50	G	1.0		3080
60				60	G	1.0		4210
70				70	G	1.0		1950
80				80	G	1.0		3270
90				90	G	1.0		2760
95								

NOTES: Stratigraphy descriptions are based on drill cuttings. Began mud rotary @ 90 ft. BGS

LABORATORY ANALYSIS

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: MW-1
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary, and Mud Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	WELL CONSTRUCTION	SAMPLE DEPTH (ft)	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE PP (tsf)	SAMPLE Chlorides (kg/mg)
105								
110								
115			Filter pack 8/16 sieve 4-inch SCH 40 PVC screen 0.010 slot					
120								
125								
130	END OF BOREHOLE @ 130.0ft BGS	130.00						
135								
140								
145								
150								
155								
160								
165								
170								
175								
180								
185								
190								
195								

WELL DETAILS
Screened interval:
100.00 to 130.00ft BGS
Length: 30ft
Slot Size: 0.01
Material: PVC
Seal:
0.00 to 95.00ft BGS
Material: Cement Bentonite Mix
Sand Pack:
95.00 to 130.00ft BGS
Material: 8/16 Silica Sand

BOREHOLE DIAMETER 8 Inch

NOTES: Stratigraphy descriptions are based on drill cuttings. Began mud rotary @ 90 ft. BGS

LABORATORY ANALYSIS

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
WELL OWNER NAME(S)		PHONE (OPTIONAL)
WELL OWNER MAILING ADDRESS		CITY STATE ZIP

WELL LOCATION (FROM GPS)	DEGREES MINUTES SECONDS	
	LATITUDE N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND
	LONGITUDE W	* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY
DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
COMPLETED WELL IS:	ARTESIAN	DRY HOLE	SHALLOW (UNCONFINED)	STATIC WATER LEVEL IN COMPLETED WELL (FT)
DRILLING FLUID:	AIR	MUD	ADDITIVES – SPECIFY:	
DRILLING METHOD:	ROTARY	HAMMER	CABLE TOOL	OTHER – SPECIFY:

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 0. /30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

PUMP AIR LIFT BAILER OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Appendix C

Laboratory Analytical Reports

Certificate of Analysis Summary 604312

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Nov-02-18 11:15 am
Report Date: 13-NOV-18
Project Manager: Debbie Simmons

Analysis Requested								
	Lab Id:	604312-001						
	Field Id:	MW-1-W-181031						
	Depth:							
	Matrix:	GROUND WATER						
	Sampled:	Oct-31-18 17:50						
Chloride by EPA 300	***Extracted:***	Nov-07-18 10:00						
	Analyzed:	Nov-07-18 16:17						
	Units/RL:	mg/L	RL					
Chloride		115	2.50					
TDS by SM2540C	***Extracted:***							
	Analyzed:	Nov-07-18 09:00						
	Units/RL:	mg/L	RL					
Total Dissolved Solids		678	5.00					

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

Debbie Simmons
Project Manager

Final 1.000

Analytical Report 604312

for

GHD Services, INC- Midland

Project Manager: Scott Foord

CEMC CVU-47H

073821-2018-001

13-NOV-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

13-NOV-18

Project Manager: **Scott Foord**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **604312**
CEMC CVU-47H
Project Address:

Scott Foord:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 604312. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 604312 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Debbie Simmons

Debbie Simmons
Project Manager

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

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

Sample Cross Reference 604312

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1-W-181031	W	10-31-18 17:50		604312-001

CASE NARRATIVE

Client Name: GHD Services, INC- Midland

Project Name: CEMC CVU-47H

Project ID: *073821-2018-001*
Work Order Number(s): *604312*

Report Date: *13-NOV-18*
Date Received: *11/02/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 604312

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id: **MW-1-W-181031** Matrix: Ground Water Date Received:11.02.18 11.15

Lab Sample Id: 604312-001 Date Collected: 10.31.18 17.50

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 11.07.18 10.00

Seq Number: 3069004

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**115**	2.50	mg/L	11.07.18 16.17		5

Analytical Method: TDS by SM2540C

Tech: OJS % Moisture:

Analyst: OJS

Seq Number: 3068876

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**678**	5.00	mg/L	11.07.18 09.00		1

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

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 604312

GHD Services, INC- Midland

CEMC CVU-47H

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3069004 Matrix: Water Date Prep: 11.07.18
MB Sample Id: 7665626-1-BLK LCS Sample Id: 7665626-1-BKS LCSD Sample Id: 7665626-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.500	25.0	24.1	96	24.2	97	90-110	0	20	mg/L	11.07.18 11:17	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3069004 Matrix: Drinking Water Date Prep: 11.07.18
Parent Sample Id: 604625-001 MS Sample Id: 604625-001 S MSD Sample Id: 604625-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.25	25.0	34.6	105	34.7	106	90-110	0	20	mg/L	11.07.18 11:48	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3069004 Matrix: Drinking Water Date Prep: 11.07.18
Parent Sample Id: 604651-001 MS Sample Id: 604651-001 S MSD Sample Id: 604651-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.5	25.0	37.9	110	37.9	110	90-110	0	20	mg/L	11.07.18 14:13	

Analytical Method: **TDS by SM2540C**
Seq Number: 3068876 Matrix: Water
MB Sample Id: 3068876-1-BLK LCS Sample Id: 3068876-1-BKS LCSD Sample Id: 3068876-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	946	95	950	95	80-120	0	10	mg/L	11.07.18 09:00	

Analytical Method: **TDS by SM2540C**
Seq Number: 3068876 Matrix: Ground Water
Parent Sample Id: 604312-001 MD Sample Id: 604312-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	678	666	2	10	mg/L	11.07.18 09:00	

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

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

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

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

Final 1.000

QC Summary 604312

GHD Services, INC- Midland

CEMC CVU-47H

Analytical Method: **TDS by SM2540C**

Seq Number: 3068876 Matrix: Ground Water

Parent Sample Id: 604387-011 MD Sample Id: 604387-011 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	559	594	6	10	mg/L	11.07.18 09:00	

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

Page 103 of 650

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: 604312

Page 1 of 1

Project Manager:	Scott Foord	Bill to: (if different)	Jason Michaelson
Company Name:	GHD	Company Name:	Chevron Enviromental Management Company
Address:	2135 S. Loop 250 West	Address:	1400 Smith Street, Office 07094
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Houston, TX. 77002
Phone:	713-734-3090 or 281-725-7477	Email:	William.Foord@ghd.com & Christopher.Knight@ghd.com & Megan.Willis@ghd.com

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	CEMC CVU-47H	Turn Around	
Project Number:	073821-2018-001	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Justin Nixon	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	1.5	Thermometer ID	
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.0
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	TDS
mw-w-181031	GW	10.31.18	1750		1	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		11-2-18 1115	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 10 of 11

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 11/02/2018 11:15:00 AM

Work Order #: 604312

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

Temperature Measuring device used : R8

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

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

Analyst: BT

PH Device/Lot#: A032690

Checklist completed by: Brianna Teel Date: 11/02/2018

Brianna Teel

Checklist reviewed by: Debbie Simmons Date: 11/02/2018

Debbie Simmons

Analytical Report 639822

for

Chevron (Midland)

Project Manager: Jason Michelson

CVU #47H

10.17.2019

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

10.17.2019

Project Manager: **Jason Michelson**
Chevron (Midland)
6301 Deauville - N3112
Midland, TX 79705

Reference: XENCO Report No(s): **639822**
CVU #47H
Project Address:

Jason Michelson:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 639822. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 639822 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

John Builes
Project Manager

A Small Business and Minority Company

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

Released to Imaging: 8/2/2021 4:21:03 PM

Sample Cross Reference 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
TT#1 @ Surf	S	10.08.2019 09:20		639822-001
TT#1 @ 1'	S	10.08.2019 09:25	1 ft	639822-002
TT#1 @ 1.5'	S	10.08.2019 09:30	1.5 ft	639822-003
TT#2 @ Surf	S	10.08.2019 09:35		639822-004
TT#2 @ 1'	S	10.08.2019 09:40	1 ft	639822-005
TT#2 @ 2'	S	10.08.2019 09:45	2 ft	639822-006
TT#2 @ 2.5'	S	10.08.2019 09:50	2.5 ft	639822-007
TT#3 @ Surf	S	10.08.2019 09:55		639822-008
TT#3 @ 1'	S	10.08.2019 10:00	1 ft	639822-009
TT#3 @ 2'	S	10.08.2019 10:05	2 ft	639822-010
TT#3 @ 3'	S	10.08.2019 10:10	3 ft	639822-011
TT#3 @ 4'	S	10.08.2019 10:15	4 ft	639822-012
TT#4 @ Surf	S	10.08.2019 10:20		639822-013
TT#4 @ 1'	S	10.08.2019 10:30	1 ft	639822-014
TT#4 @ 1.5'	S	10.08.2019 10:35	1.5 ft	639822-015
TT#5 @ Surf	S	10.08.2019 10:40		639822-016
TT#5 @ 1'	S	10.08.2019 10:45	1 ft	639822-017
TT#6 @ Surf	S	10.08.2019 10:50		639822-018
TT#6 @ 1'	S	10.08.2019 10:55	1 ft	639822-019
TT#7 @ Surf	S	10.08.2019 11:00		639822-020
TT#7 @ 1'	S	10.08.2019 11:10	1 ft	639822-021
TT#8 @ Surf	S	10.08.2019 11:15		639822-022
TT#8 @ 1'	S	10.08.2019 11:20	1 ft	639822-023
TT#8 @ 2'	S	10.08.2019 11:25	2 ft	639822-024
TT#8 @ 3'	S	10.08.2019 11:30	3 ft	639822-025

CASE NARRATIVE

Client Name: Chevron (Midland)

Project Name: CVU #47H

Project ID:
Work Order Number(s): *639822*

Report Date: *10.17.2019*
Date Received: *10.14.2019*

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Certificate of Analysis Summary 639822

Chevron (Midland), Midland, TX

Project Name: CVU #47H

Project Id:

Contact: Jason Michelson

Project Location:

Date Received in Lab: Mon 10.14.2019 10:11

Report Date: 10.17.2019 16:30

Project Manager: John Builes

Analysis Requested													
	Lab Id:	639822-001		639822-002		639822-003		639822-004		639822-005		639822-006	
	Field Id:	TT#1 @ Surf		TT#1 @ 1'		TT#1 @ 1.5'		TT#2 @ Surf		TT#2 @ 1'		TT#2 @ 2'	
	Depth:			1- ft		1.5- ft				1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.08.2019 09:20		10.08.2019 09:25		10.08.2019 09:30		10.08.2019 09:35		10.08.2019 09:40		10.08.2019 09:45	
Chloride by EPA 300	***Extracted:***	10.14.2019 16:00		10.14.2019 16:00		10.14.2019 16:00		10.14.2019 16:00		10.14.2019 16:00		10.14.2019 16:00	
	Analyzed:	10.14.2019 18:55		10.14.2019 19:02		10.14.2019 19:09		10.14.2019 19:24		10.14.2019 19:31		10.14.2019 19:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		146	4.99	628	5.04	40.7	5.02	377	5.00	110	25.0	143	25.0

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

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

John Builes
Project Manager

Certificate of Analysis Summary 639822

Chevron (Midland), Midland, TX

Project Name: CVU #47H

Project Id:
Contact: Jason Michelson
Project Location:

Date Received in Lab: Mon 10.14.2019 10:11
Report Date: 10.17.2019 16:30
Project Manager: John Builes

Analysis Requested													
	Lab Id:	639822-007		639822-008		639822-009		639822-010		639822-011		639822-012	
	Field Id:	TT#2 @ 2.5'		TT#3 @ Surf		TT#3 @ 1'		TT#3 @ 2'		TT#3 @ 3'		TT#3 @ 4'	
	Depth:	2.5- ft				1- ft		2- ft		3- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.08.2019 09:50		10.08.2019 09:55		10.08.2019 10:00		10.08.2019 10:05		10.08.2019 10:10		10.08.2019 10:15	
Chloride by EPA 300	***Extracted:***	10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30	
	Analyzed:	10.14.2019 20:42		10.15.2019 08:55		10.14.2019 20:20		10.14.2019 20:56		10.14.2019 21:03		10.14.2019 21:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		165	50.0	<5.03	5.03	103	4.96	717	50.4	292	25.2	61.8	25.0

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

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

John Builes
Project Manager

Certificate of Analysis Summary 639822

Chevron (Midland), Midland, TX

Project Name: CVU #47H

Project Id:

Contact: Jason Michelson

Project Location:

Date Received in Lab: Mon 10.14.2019 10:11

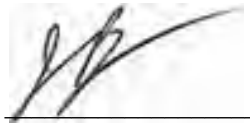
Report Date: 10.17.2019 16:30

Project Manager: John Builes

Analysis Requested	*Lab Id:*	639822-013		639822-014		639822-015		639822-016		639822-017		639822-018	
	Field Id:	TT#4 @ Surf		TT#4 @ 1'		TT#4 @ 1.5'		TT#5 @ Surf		TT#5 @ 1'		TT#6 @ Surf	
	Depth:			1- ft		1.5- ft				1- ft			
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.08.2019 10:20		10.08.2019 10:30		10.08.2019 10:35		10.08.2019 10:40		10.08.2019 10:45		10.08.2019 10:50	
Chloride by EPA 300	*Extracted:*	10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30	
	Analyzed:	10.15.2019 09:03		10.14.2019 21:38		10.14.2019 21:46		10.15.2019 09:10		10.15.2019 09:17		10.14.2019 22:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		22.5	5.00	580	25.2	1150	25.1	<5.02	5.02	13.9	4.96	<5.02	5.02

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

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



John Builes
Project Manager

Certificate of Analysis Summary 639822

Chevron (Midland), Midland, TX

Project Name: CVU #47H

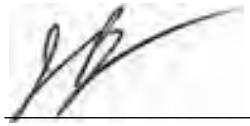
Project Id:
Contact: Jason Michelson
Project Location:

Date Received in Lab: Mon 10.14.2019 10:11
Report Date: 10.17.2019 16:30
Project Manager: John Builes

Analysis Requested													
	Lab Id:	639822-019		639822-020		639822-021		639822-022		639822-023		639822-024	
	Field Id:	TT#6 @ 1'		TT#7 @ Surf		TT#7 @ 1'		TT#8 @ Surf		TT#8 @ 1'		TT#8 @ 2'	
	Depth:	1- ft				1- ft				1- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	10.08.2019 10:55		10.08.2019 11:00		10.08.2019 11:10		10.08.2019 11:15		10.08.2019 11:20		10.08.2019 11:25	
Chloride by EPA 300	***Extracted:***	10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30		10.14.2019 16:30	
	Analyzed:	10.14.2019 22:28		10.15.2019 09:24		10.14.2019 22:56		10.14.2019 23:04		10.14.2019 23:11		10.14.2019 23:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		33.5	24.8	<5.03	5.03	689	49.6	454	50.4	3140	50.3	2380	25.2

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

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



John Builes
Project Manager

Certificate of Analysis Summary 639822

Chevron (Midland), Midland, TX

Project Name: CVU #47H

Project Id:
Contact: Jason Michelson
Project Location:

Date Received in Lab: Mon 10.14.2019 10:11
Report Date: 10.17.2019 16:30
Project Manager: John Builes

Analysis Requested							
	Lab Id:	639822-025					
	Field Id:	TT#8 @ 3'					
	Depth:	3- ft					
	Matrix:	SOIL					
	Sampled:	10.08.2019 11:30					
Chloride by EPA 300	***Extracted:***	10.14.2019 16:30					
	Analyzed:	10.14.2019 23:25					
	Units/RL:	mg/kg	RL				
Chloride		2510	24.9				

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

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

John Builes
Project Manager

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#1 @ Surf**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-001	Date Collected:	10.08.2019 09:20		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.14.2019 16:00	Basis:	Wet Weight
Seq Number:	3104276				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**146**	4.99	mg/kg	10.14.2019 18:55		1

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#1 @ 1'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-002	Date Collected:	10.08.2019 09:25	Sample Depth:	1 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.14.2019 16:00	Basis:	Wet Weight
Seq Number:	3104276				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**628**	5.04	mg/kg	10.14.2019 19:02		1

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#1 @ 1.5'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-003	Date Collected:	10.08.2019 09:30	Sample Depth:	1.5 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.14.2019 16:00	Basis:	Wet Weight
Seq Number:	3104276				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**40.7**	5.02	mg/kg	10.14.2019 19:09		1

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#2 @ Surf**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-004	Date Collected:	10.08.2019 09:35		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.14.2019 16:00	Basis:	Wet Weight
Seq Number:	3104276				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**377**	5.00	mg/kg	10.14.2019 19:24		1

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#2 @ 1'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-005	Date Collected:	10.08.2019 09:40	Sample Depth:	1 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.14.2019 16:00	Basis:	Wet Weight
Seq Number:	3104276				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**110**	25.0	mg/kg	10.14.2019 19:31		5

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#2 @ 2'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-006	Date Collected:	10.08.2019 09:45	Sample Depth:	2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	10.14.2019 16:00	Basis:	Wet Weight
Seq Number:	3104276				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**143**	25.0	mg/kg	10.14.2019 19:38		5

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#2 @ 2.5'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-007	Date Collected:	10.08.2019 09:50	Sample Depth:	2.5 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**165**	50.0	mg/kg	10.14.2019 20:42		10

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#3 @ Surf**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-008	Date Collected:	10.08.2019 09:55		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	10.15.2019 08:55	U	1

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#3 @ 1'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-009	Date Collected:	10.08.2019 10:00	Sample Depth:	1 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**103**	4.96	mg/kg	10.14.2019 20:20		1

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#3 @ 2'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-010	Date Collected:	10.08.2019 10:05	Sample Depth:	2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**717**	50.4	mg/kg	10.14.2019 20:56		10

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#3 @ 3'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-011	Date Collected:	10.08.2019 10:10	Sample Depth:	3 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**292**	25.2	mg/kg	10.14.2019 21:03		5

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#3 @ 4'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-012	Date Collected:	10.08.2019 10:15	Sample Depth:	4 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**61.8**	25.0	mg/kg	10.14.2019 21:24		5

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#4 @ Surf**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-013	Date Collected:	10.08.2019 10:20		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**22.5**	5.00	mg/kg	10.15.2019 09:03		1

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#4 @ 1'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-014	Date Collected:	10.08.2019 10:30	Sample Depth:	1 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**580**	25.2	mg/kg	10.14.2019 21:38		5

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#4 @ 1.5'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-015	Date Collected:	10.08.2019 10:35	Sample Depth:	1.5 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1150**	25.1	mg/kg	10.14.2019 21:46		5

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#5 @ Surf**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-016	Date Collected:	10.08.2019 10:40		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	10.15.2019 09:10	U	1

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#5 @ 1'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-017	Date Collected:	10.08.2019 10:45	Sample Depth:	1 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**13.9**	4.96	mg/kg	10.15.2019 09:17		1

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#6 @ Surf**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-018	Date Collected:	10.08.2019 10:50		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	10.14.2019 22:00	U	1

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#6 @ 1'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-019	Date Collected:	10.08.2019 10:55	Sample Depth:	1 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**33.5**	24.8	mg/kg	10.14.2019 22:28		5

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#7 @ Surf**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-020	Date Collected:	10.08.2019 11:00		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	10.15.2019 09:24	U	1

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#7 @ 1'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-021	Date Collected:	10.08.2019 11:10	Sample Depth:	1 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**689**	49.6	mg/kg	10.14.2019 22:56		10

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#8 @ Surf**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-022	Date Collected:	10.08.2019 11:15		
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**454**	50.4	mg/kg	10.14.2019 23:04		10

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#8 @ 1'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-023	Date Collected:	10.08.2019 11:20	Sample Depth:	1 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3140**	50.3	mg/kg	10.14.2019 23:11		10

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#8 @ 2'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-024	Date Collected:	10.08.2019 11:25	Sample Depth:	2 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2380**	25.2	mg/kg	10.14.2019 23:18		5

Certificate of Analytical Results 639822

Chevron (Midland), Midland, TX

CVU #47H

Sample Id:	**TT#8 @ 3'**	Matrix:	Soil	Date Received:	10.14.2019 10:11
Lab Sample Id:	639822-025	Date Collected:	10.08.2019 11:30	Sample Depth:	3 ft
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SPC			% Moisture:	
Analyst:	SPC	Date Prep:	10.14.2019 16:30	Basis:	Wet Weight
Seq Number:	3104282				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2510**	24.9	mg/kg	10.14.2019 23:25		5

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

Released to Imaging: 8/2/2021 4:21:03 PM

QC Summary 639822

Chevron (Midland)

CVU #47H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104276 — Matrix: Solid — Date Prep: 10.14.2019
MB Sample Id: 7688084-1-BLK — LCS Sample Id: 7688084-1-BKS — LCSD Sample Id: 7688084-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	247	99	248	99	90-110	0	20	mg/kg	10.14.2019 16:12	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104282 — Matrix: Solid — Date Prep: 10.14.2019
MB Sample Id: 7688097-1-BLK — LCS Sample Id: 7688097-1-BKS — LCSD Sample Id: 7688097-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	247	99	247	99	90-110	0	20	mg/kg	10.14.2019 20:06	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104276 — Matrix: Soil — Date Prep: 10.14.2019
Parent Sample Id: 639784-007 — MS Sample Id: 639784-007 S — MSD Sample Id: 639784-007 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4.67	252	261	102	260	101	90-110	0	20	mg/kg	10.14.2019 16:33	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104276 — Matrix: Soil — Date Prep: 10.14.2019
Parent Sample Id: 639797-011 — MS Sample Id: 639797-011 S — MSD Sample Id: 639797-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.860	251	256	102	257	102	90-110	0	20	mg/kg	10.14.2019 18:13	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104282 — Matrix: Soil — Date Prep: 10.14.2019
Parent Sample Id: 639822-009 — MS Sample Id: 639822-009 S — MSD Sample Id: 639822-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	103	248	347	98	348	99	90-110	0	20	mg/kg	10.14.2019 20:27	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3104282 — Matrix: Soil — Date Prep: 10.14.2019
Parent Sample Id: 639822-018 — MS Sample Id: 639822-018 S — MSD Sample Id: 639822-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.862	251	254	101	251	100	90-110	1	20	mg/kg	10.14.2019 22:07	

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

Page 141 of 650

Chain of Custody

Work Order No: 639882

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 3

Project Manager:	Jason Michelson	Bill to: (if different)	
Company Name:	Chevron Environmental Management	Company Name:	
Address:	1500 Louisiana St. Office 38116	Address:	
City, State ZIP:	Houston, TX 77002	City, State ZIP:	
Phone:	832-854-5601	Email:	jmichelson@chevron.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush:	
Sampler's Name:	Daniel Dominguez	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	1.2/1.1	Thermometer ID:		
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride														
TT#1@Surf	Soil	8-Oct-19	9:20	Surface	1	X														
TT#1@1'	Soil	8-Oct-19	9:25	1'	1	X														
TT#1@1.5'	Soil	8-Oct-19	9:30	1.5'	1	X														
TT#2@Surf	Soil	8-Oct-19	9:35	Surface	1	X														
TT#2@1'	Soil	8-Oct-19	9:40	1'	1	X														
TT#2@2'	Soil	8-Oct-19	9:45	2'	1	X														
TT#2@2.5'	Soil	8-Oct-19	9:50	2.5'	1	X														
TT#3@Surf	Soil	8-Oct-19	9:55	Surface	1	X														
TT#3@1'	Soil	8-Oct-19	10:00	1'	1	X														
TT#3@2'	Soil	8-Oct-19	10:05	2'	1	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			10/10/19 4:35	2		10/10/19 4:46
3				4		10/14/19
5				6		1004

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.001
Page 37 of 41

Page 142 of 650

Chain of Custody

Work Order No: 639872

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 2 of 3

Project Manager:	Jason Michelson	Bill to: (if different)	
Company Name:	Chevron Environmental Management	Company Name:	
Address:	1500 Louisiana St. Office 38116	Address:	
City, State ZIP:	Houston, TX 77002	City, State ZIP:	
Phone:	832-854-5601	Email:	jmichelson@chevron.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush:	
Sampler's Name:	Daniel Dominguez	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	1.3 | 1.1	Thermometer ID	
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	
Sample Custody Seals:	Yes No N/A	Total Containers:	

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	Chloride	Sample Comments
TT#3@3'	Soil	8-Oct-19	10:10	3'	1	X	
TT#3@4'	Soil	8-Oct-19	10:15	4'	1	X	
TT#4@Surf	Soil	8-Oct-19	10:20	Surface	1	X	
TT#4@1'	Soil	8-Oct-19	10:30	1'	1	X	
TT#4@1.5'	Soil	8-Oct-19	10:35	1.5'	1	X	
TT#5@Surf	Soil	8-Oct-19	10:40	Surface	1	X	
TT#5@1'	Soil	8-Oct-19	10:45	1'	1	X	
TT#6@Surf	Soil	8-Oct-19	10:50	Surface	1	X	
TT#6@1'	Soil	8-Oct-19	10:55	1'	1	X	
TT#7@Surf	Soil	8-Oct-19	11:00	Surface	1	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr 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		10/10/19 4:25	2		10/10/19 4:40
3			4		10/14/19
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.001
Page 38 of 41
Released to Imaging: 8/2/2021 4:21:03 PM

Page 143 of 650

Chain of Custody

Work Order No: 639872

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:	Jason Michelson	Bill to: (if different)	
Company Name:	Chevron Environmental Management	Company Name:	
Address:	1500 Louisiana St. Office 38116	Address:	
City, State ZIP:	Houston, TX 77002	City, State ZIP:	
Phone:	832-854-5601	Email:	jmichelson@chevron.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush:	
Sampler's Name:	Daniel Dominguez	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	1.2 | 1.1	Thermometer ID:	T6	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride
TT#7@1'	Soil	8-Oct-19	11:10	1'	1	X
TT#8@Surf	Soil	8-Oct-19	11:15	Surface	1	X
TT#8@1'	Soil	8-Oct-19	11:20	1'	1	X
TT#8@2'	Soil	8-Oct-19	11:25	2'	1	X
TT#8@3'	Soil	8-Oct-19	11:30	3'	1	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			10/10/19 4:25	2		10/10/19 4:46
3				4		
5				6		10/11/19

Revised Date 051418 Rev 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.001
Page 39 of 41



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

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

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Chevron (Midland)

Date/ Time Received: 10.14.2019 10.11.39 AM

Work Order #: 639822

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

Temperature Measuring device used : R8

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	1.1
#2 *Shipping container in good condition?	**Yes**
#3 *Samples received on ice?	**Yes**
#4 *Custody Seals intact on shipping container/ cooler?	**N/A**
#5 Custody Seals intact on sample bottles?	**N/A**
#6*Custody Seals Signed and dated?	**N/A**
#7 *Chain of Custody present?	**Yes**
#8 Any missing/extra samples?	**No**
#9 Chain of Custody signed when relinquished/ received?	**Yes**
#10 Chain of Custody agrees with sample labels/matrix?	**Yes**
#11 Container label(s) legible and intact?	**Yes**
#12 Samples in proper container/ bottle?	**Yes**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**N/A**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 10.14.2019

Brianna Teel

Checklist reviewed by: John Builes Date: 10.15.2019

John Builes

Analytical Report 641200

for

Etech Environmental & Safety Solution, Inc

Project Manager: Daniel Dominguez

CVU #47H

11130

29-OCT-19

Collected By: Client





1211 W. Florida Ave
Midland TX 79701

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

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

29-OCT-19

Project Manager: **Daniel Dominguez**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **641200**
CVU #47H
Project Address: Rural Lea

Daniel Dominguez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 641200. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 641200 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Sample Cross Reference 641200

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW 1	S	10-22-19 13:44	2 ft	641200-001
EW1	S	10-22-19 13:50	2 ft	641200-002
EW2	S	10-22-19 14:05	1.5 ft	641200-003
EW3	S	10-22-19 14:15	1.5 ft	641200-004
EW4	S	10-22-19 14:25	1 ft	641200-005
SW1	S	10-22-19 14:35	1 ft	641200-006
NW2	S	10-24-19 00:00	2 ft	641200-007
NW3	S	10-24-19 00:00	2 ft	641200-008
Stockpile A	S	10-24-19 00:00		641200-009
Stockpile 5	S	10-24-19 00:00		641200-010
South Exacavation NW	S	10-24-19 09:44	2 ft	641200-011
South Exacavation EW	S	10-24-19 09:44	2 ft	641200-012
South Exacavation WW	S	10-24-19 09:44	2 ft	641200-013
South Exacavation SWb	S	10-24-19 13:16	2 ft	641200-014
South Exacavation Floor	S	10-24-19 09:44	2 ft	641200-015
WW3	S	10-23-19 09:14	2 ft	641200-016
WW4	S	10-23-19 09:14	2 ft	641200-017
Stockpile 7	S	10-25-19 00:00		641200-018
MW1	S	10-25-19 08:56	2 ft	641200-019
Floor 1b	S	10-23-19 00:00	3.5 ft	641200-020
Floor 2b	S	10-23-19 00:00	3.5 ft	641200-021
Floor 3b	S	10-23-19 00:00	3.5 ft	641200-022
Floor 4c	S	10-23-19 00:00	4 ft	641200-023
Floor 5b	S	10-23-19 00:00	3.5 ft	641200-024
Floor 6b	S	10-23-19 00:00	3.5 ft	641200-025
Floor 7	S	10-23-19 00:00	3 ft	641200-026
Floor 8	S	10-23-19 00:00	3 ft	641200-027
Floor 9	S	10-23-19 00:00	3 ft	641200-028

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: CVU #47H

Project ID: *11130*
Work Order Number(s): *641200*

Report Date: *29-OCT-19*
Date Received: *10/28/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results
641200
Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **NW 1** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 641200-001 Date Collected: 10.22.19 13.44 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**67.9**	4.96	0.852	mg/kg	10.28.19 11:49		1

Sample Id: **EW1** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 641200-002 Date Collected: 10.22.19 13.50 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**282**	25.2	4.32	mg/kg	10.28.19 12:05		5

Sample Id: **EW2** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 641200-003 Date Collected: 10.22.19 14.05 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**183**	25.2	4.33	mg/kg	10.28.19 12:10		5

Sample Id: **EW3** Matrix: Soil Sample Depth: 1.5 ft

Lab Sample Id: 641200-004 Date Collected: 10.22.19 14.15 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**315**	5.00	0.858	mg/kg	10.28.19 12:15		1

Certificate of Analytical Results
641200
Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **EW4** Matrix: Soil Sample Depth: 1 ft

Lab Sample Id: 641200-005 Date Collected: 10.22.19 14.25 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**162**	4.95	0.850	mg/kg	10.28.19 12:20		1

Sample Id: **SW1** Matrix: Soil Sample Depth: 1 ft

Lab Sample Id: 641200-006 Date Collected: 10.22.19 14.35 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**51.7**	4.96	0.852	mg/kg	10.28.19 12:35		1

Sample Id: **NW2** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 641200-007 Date Collected: 10.24.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**70.0**	5.03	0.864	mg/kg	10.28.19 12:41		1

Sample Id: **NW3** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 641200-008 Date Collected: 10.24.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**311**	5.04	0.865	mg/kg	10.28.19 12:46		1

Certificate of Analytical Results
641200

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Stockpile A** Matrix: Soil Sample Depth:
Lab Sample Id: 641200-009 Date Collected: 10.24.19 00.00 Date Received: 10.28.19 08.00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Analyst: CHE % Moist: Tech: CHE
Seq Number: 3105650 Date Prep: 10.28.19 11.20
Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**400**	50.0	8.58	mg/kg	10.28.19 12:51		10

Sample Id: **Stockpile 5** Matrix: Soil Sample Depth:
Lab Sample Id: 641200-010 Date Collected: 10.24.19 00.00 Date Received: 10.28.19 08.00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Analyst: CHE % Moist: Tech: CHE
Seq Number: 3105650 Date Prep: 10.28.19 11.20
Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**530**	25.0	4.29	mg/kg	10.28.19 12:56		5

Sample Id: **South Exacavation NW** Matrix: Soil Sample Depth: 2 ft
Lab Sample Id: 641200-011 Date Collected: 10.24.19 09.44 Date Received: 10.28.19 08.00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Analyst: CHE % Moist: Tech: CHE
Seq Number: 3105650 Date Prep: 10.28.19 11.20
Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**88.2**	5.05	0.867	mg/kg	10.28.19 13:01		1

Sample Id: **South Exacavation EW** Matrix: Soil Sample Depth: 2 ft
Lab Sample Id: 641200-012 Date Collected: 10.24.19 09.44 Date Received: 10.28.19 08.00
Analytical Method: Chloride by EPA 300 Prep Method: E300P
Analyst: CHE % Moist: Tech: CHE
Seq Number: 3105650 Date Prep: 10.28.19 11.20
Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**380**	5.01	0.859	mg/kg	10.28.19 13:17		1

Certificate of Analytical Results
641200
Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **South Exacavation WW** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 641200-013 Date Collected: 10.24.19 09.44 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**173**	5.01	0.860	mg/kg	10.28.19 13:22		1

Sample Id: **South Exacavation SWb** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 641200-014 Date Collected: 10.24.19 13.16 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**50.0**	5.04	0.865	mg/kg	10.28.19 13:48		1

Sample Id: **South Exacavation Floor** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 641200-015 Date Collected: 10.24.19 09.44 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**648**	4.98	0.855	mg/kg	10.28.19 13:53		1

Sample Id: **WW3** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 641200-016 Date Collected: 10.23.19 09.14 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**243**	25.0	4.29	mg/kg	10.28.19 13:58		5

Certificate of Analytical Results
641200
Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WW4** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 641200-017 Date Collected: 10.23.19 09.14 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**5.24**	5.00	0.858	mg/kg	10.28.19 14:03		1

Sample Id: **Stockpile 7** Matrix: Soil Sample Depth:

Lab Sample Id: 641200-018 Date Collected: 10.25.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**168**	5.00	0.858	mg/kg	10.28.19 14:08		1

Sample Id: **MW1** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 641200-019 Date Collected: 10.25.19 08.56 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**843**	50.0	8.58	mg/kg	10.28.19 14:14		10

Sample Id: **Floor 1b** Matrix: Soil Sample Depth: 3.5 ft

Lab Sample Id: 641200-020 Date Collected: 10.23.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**641**	5.00	0.858	mg/kg	10.28.19 14:19		1

Certificate of Analytical Results
641200
Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Floor 2b** Matrix: Soil Sample Depth: 3.5 ft

Lab Sample Id: 641200-021 Date Collected: 10.23.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3105654 Date Prep: 10.28.19 13.20

Prep seq: 7689018

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**218**	5.00	0.858	mg/kg	10.28.19 14:50		1

Sample Id: **Floor 3b** Matrix: Soil Sample Depth: 3.5 ft

Lab Sample Id: 641200-022 Date Collected: 10.23.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3105654 Date Prep: 10.28.19 13.20

Prep seq: 7689018

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**39.7**	4.95	0.850	mg/kg	10.28.19 15:05		1

Sample Id: **Floor 4c** Matrix: Soil Sample Depth: 4 ft

Lab Sample Id: 641200-023 Date Collected: 10.23.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3105654 Date Prep: 10.28.19 13.20

Prep seq: 7689018

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**275**	4.98	0.855	mg/kg	10.28.19 15:10		1

Sample Id: **Floor 5b** Matrix: Soil Sample Depth: 3.5 ft

Lab Sample Id: 641200-024 Date Collected: 10.23.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3105654 Date Prep: 10.28.19 13.20

Prep seq: 7689018

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**413**	5.02	0.862	mg/kg	10.28.19 15:15		1

Certificate of Analytical Results
641200
Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Floor 6b** Matrix: Soil Sample Depth: 3.5 ft

Lab Sample Id: 641200-025 Date Collected: 10.23.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3105654 Date Prep: 10.28.19 13.20

Prep seq: 7689018

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**108**	4.97	0.853	mg/kg	10.28.19 15:20		1

Sample Id: **Floor 7** Matrix: Soil Sample Depth: 3 ft

Lab Sample Id: 641200-026 Date Collected: 10.23.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3105654 Date Prep: 10.28.19 13.20

Prep seq: 7689018

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**18.9**	4.99	0.857	mg/kg	10.28.19 15:36		1

Sample Id: **Floor 8** Matrix: Soil Sample Depth: 3 ft

Lab Sample Id: 641200-027 Date Collected: 10.23.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3105654 Date Prep: 10.28.19 13.20

Prep seq: 7689018

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**23.8**	4.98	0.855	mg/kg	10.28.19 15:41		1

Sample Id: **Floor 9** Matrix: Soil Sample Depth: 3 ft

Lab Sample Id: 641200-028 Date Collected: 10.23.19 00.00 Date Received: 10.28.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3105654 Date Prep: 10.28.19 13.20

Prep seq: 7689018

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**6.35**	5.04	0.865	mg/kg	10.28.19 15:46		1

Certificate of Analytical Results
641200

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **7688990-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7688990-1-BLK Date Collected: Date Received:

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3105650 Date Prep: 10.28.19 11.20

Prep seq: 7688990

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	10.28.19 11:34	U	1

Sample Id: **7689018-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7689018-1-BLK Date Collected: Date Received:

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3105654 Date Prep: 10.28.19 13.20

Prep seq: 7689018

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	10.28.19 14:34	U	1

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

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

BS / BSD Recoveries

Project Name: CVU #47H

Work Order #: 641200 **Project ID:** 11130

Analyst: CHE **Date Prepared:** 10/28/2019 **Date Analyzed:** 10/28/2019

Lab Batch ID: 3105650 **Sample:** 7688990-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	261	104	250	265	106	2	90-110	20	

Analyst: SPC **Date Prepared:** 10/28/2019 **Date Analyzed:** 10/28/2019

Lab Batch ID: 3105654 **Sample:** 7689018-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	263	105	250	262	105	0	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: CVU #47H

Work Order # : 641200 **Project ID:** 11130

Lab Batch ID: 3105650 **QC- Sample ID:** 641200-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/28/2019 **Date Prepared:** 10/28/2019 **Analyst:** CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	67.9	248	323	103	248	322	102	0	90-110	20	

Lab Batch ID: 3105650 **QC- Sample ID:** 641200-011 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/28/2019 **Date Prepared:** 10/28/2019 **Analyst:** CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	88.2	253	359	107	253	356	106	1	90-110	20	

Lab Batch ID: 3105654 **QC- Sample ID:** 641128-007 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/28/2019 **Date Prepared:** 10/28/2019 **Analyst:** SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	579	249	803	90	249	806	91	0	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: CVU #47H

Work Order # : 641200 **Project ID:** 11130

Lab Batch ID: 3105654 **QC- Sample ID:** 641200-021 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 10/28/2019 **Date Prepared:** 10/28/2019 **Analyst:** SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	218	250	479	104	250	471	101	2	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 162 of 650

Chain of Custody

Work Order No: 641200

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

Project Manager:	Daniel Dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	Chevron Environmental Management
Address:	P.O. Box 301	Address:	1500 Louisiana St Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	(575) 396-2378 Email:		danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:	11130	Routine:	☐
Project Location	Rural Lea	Rush:	☒
Sampler's Name:	Matthew Grieco	Due Date:	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	4.2/4.0	Thermometer ID	R8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Preservative Codes

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

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride	Sample Comments
NW1	Soil	10/22/2019	13:44	2'	1/NO	x	
EW1	Soil	10/22/2019	13:50	2'	1/NO	x	
EW2	Soil	10/22/2019	14:05	1.5'	1/NO	x	
EW3	Soil	10/22/2019	14:15	1.5'	1/NO	x	
EW4	Soil	10/22/2019	14:25	1'	1/NO	x	
SW1	Soil	10/22/2019	14:35	1'	1/NO	x	
NW2	Soil	10/24/2019		2'	1/NO	x	
NW3	Soil	10/24/2019		2'	1/NO	x	
Stockpile A	Soil	10/24/2019		N/A	1/NO	x	
Stockpile 5	Soil	10/24/2019		N/A	1/NO	x	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr 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			10/25/19	2		10/28/19 08:00
3				4		
5				6		

Revised Date101419 Rev. 2019.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 17 of 21

Page 163 of 650

Chain of Custody

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

Work Order No: 1041200

www.xenco.com Page 2 of 3

Project Manager:	Daniel Dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	Chevron Environmental Management
Address:	P.O. Box 301	Address:	1500 Louisiana St Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	(575) 396-2378	Email:	danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:	11130	Routine:	☐
Project Location	Rural Lea	Rush:	X
Sampler's Name:	Matthew Grieco	Due Date:	
PO #:			

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

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride
South Excavation NW	Soil	10/24/2019	9:44	2'	1/NO	x
South Excavation EW	Soil	10/24/2019	9:44	2'	1/NO	x
South Excavation WW	Soil	10/24/2019	9:44	2'	1/NO	x
South Excavation SWb	Soil	10/24/2019	13:16	2'	1/NO	x
South Excavation Floor	Soil	10/24/2019	9:44	3'	1/NO	x
WW3	Soil	10/23/2019	9:14	2'	1/NO	x
WW4	Soil	10/23/2019	9:14	2'	1/NO	x
Stockpile 7	Soil	10/25/2019		N/A	1/NO	x
MW1	Soil	10/25/2019	8:56	2'	1/NO	x
Floor 1b	Soil	10/23/2019		3.5'	1/NO	x

Preservative Codes

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

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			10/25/19	2		10/28/19 08:00
3				4		
5				6		

Revised Date 101419 Rev. 2019.1

Received by OCD: 2/13/2020 11:53:52 AM
Page 18 of 21
Final 1.000
Released to Imaging: 8/2/2021 4:21:03 PM

Page 164 of 650

Chain of Custody

Work Order No: 10412000

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

www.xenco.com Page 3 of 3

Project Manager:	Daniel Dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	Chevron Environmental Management
Address:	P.O. Box 301	Address:	1500 Louisiana St Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	(575) 396-2378 Email:		danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:	11130	Routine:	☐
Project Location	Rural Lea	Rush:	X
Sampler's Name:	Matthew Grieco	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	4.2/4.0	Thermometer ID	R8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride
Floor 2b	Soil	10/23/2019		3.5'	1/NO	x
Floor 3b	Soil	10/23/2019		3.5'	1/NO	x
Floor 4c	Soil	10/24/2019		4'	1/NO	x
Floor 5b	Soil	10/23/2019		3.5'	1/NO	x
Floor 6b	Soil	10/23/2019		3.5'	1/NO	x
Floor 7	Soil	10/23/2019		3'	1/NO	x
Floor 8	Soil	10/23/2019		3'	1/NO	x
Floor 9	Soil	10/23/2019		3'	1/NO	x

Preservative Codes

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

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		10/25/19	2		10/28/19 08:00
3			4		
5			6		

Revised Date 101419 Rev. 2019.1

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 19 of 21
Released to Imaging: 8/2/2021 4:21:03 PM


ORIGIN ID:HOBA (575) 392-7550
**
MAIL SERVICES ETC, LLC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US
SHIP DATE: 25OCT19
ACTWGT: 47.00 LB MAN
CAD: 0909328/CAFE3211
DIMS: 25x15x14 IN
BILL RECIPIENT
XENCO LABORATORIES HOLD FOR PICK UP
FEDEX OFFICE PRINT & SHIP CENTER
FEDEX OFFICE PRINT & SHIP CENTER
200 W INTERSTATE 20
MIDLAND TX 79701
(432) 563-1800
INV:
PO:
REF:
DEPT:
551C3/2A3C/104C
FedEx
Express
TRK#
0201
4705 2522 0377
SATURDAY HOLD
PRIORITY OVERNIGHT
1 MAFA
HLD
MAFKI
TX-US LBB

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 10/28/2019 08:00:00 AM

Work Order #: 641200

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

Temperature Measuring device used : R8

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 10/28/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 10/28/2019

Jessica Kramer

Analytical Report 641895

for

Etech Environmental & Safety Solution, Inc

Project Manager: Daniel Dominguez

CVU #47H

11130

05-NOV-19

Collected By: Client





1211 W. Florida Ave
Midland TX 79701

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

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

05-NOV-19

Project Manager: **Daniel Dominguez**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **641895**
CVU #47H
Project Address: Rural Lea

Daniel Dominguez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 641895. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 641895 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Sample Cross Reference 641895

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
East Excavation Floor 1C	S	10-31-19 13:20	4 ft	641895-001
South Excavation Floor B	S	10-31-19 13:30	4 ft	641895-002

Version: 1.%

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: CVU #47H

Project ID: *11130*
Work Order Number(s): *641895*

Report Date: *05-NOV-19*
Date Received: *11/04/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results
641895

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **East Excavation Floor 1C** Matrix: Soil Sample Depth: 4 ft

Lab Sample Id: 641895-001 Date Collected: 10.31.19 13.20 Date Received: 11.04.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3106391 Date Prep: 11.04.19 14.30

Prep seq: 7689544

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**576**	4.96	0.852	mg/kg	11.04.19 15:02		1

Sample Id: **South Excavation Floor B** Matrix: Soil Sample Depth: 4 ft

Lab Sample Id: 641895-002 Date Collected: 10.31.19 13.30 Date Received: 11.04.19 08.00

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3106391 Date Prep: 11.04.19 14.30

Prep seq: 7689544

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**546**	5.04	0.865	mg/kg	11.04.19 15:18		1

Certificate of Analytical Results
641895

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **7689544-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7689544-1-BLK Date Collected: Date Received:

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3106391 Date Prep: 11.04.19 14.30

Prep seq: 7689544

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	11.04.19 14:40	U	1

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

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

BS / BSD Recoveries

Project Name: CVU #47H

Work Order #: 641895 **Project ID:** 11130

Analyst: CHE **Date Prepared:** 11/04/2019 **Date Analyzed:** 11/04/2019

Lab Batch ID: 3106391 **Sample:** 7689544-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	246	98	250	246	98	0	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Version: 1.%

Form 3 - MS / MSD Recoveries

Project Name: CVU #47H

Work Order # : 641895 **Project ID:** 11130

Lab Batch ID: 3106391 **QC- Sample ID:** 641468-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/04/2019 **Date Prepared:** 11/04/2019 **Analyst:** CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	554	249	762	84	249	762	84	0	90-110	20	X

Lab Batch ID: 3106391 **QC- Sample ID:** 641895-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/04/2019 **Date Prepared:** 11/04/2019 **Analyst:** CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	576	248	820	98	248	798	90	3	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 176 of 650

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, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800

Work Order No: 641995

www.xenco.com Page 1 of 1

Project Manager:	Daniel Dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	Chevron Environmental Management
Address:	P.O. Box 301	Address:	1500 Louisiana St Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	(575) 396-2378	Email:	danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:	11130	Routine:	☐
Project Location	Rural Lea	Rush:	X
Sampler's Name:	Matthew Grieco	Due Date:	ASAP
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.7/0.5	Thermometer ID	R8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride
East Excavation Floor 1C	Soil	10/31/2019	13:20	4'	1/NO	x
South Excavation Floor B	Soil	10/31/2019	13:30	4'	1/NO	x

Preservative Codes

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

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	Stephanie Tarin	11/4/19 15:00	2	Stephanie Tarin	11:34 11/1/19
3		11/4/19 8:00	4		
5			6		

Revised Date101419 Rev. 2019.1

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 10 of 11
Released to Imaging: 8/2/2021 4:21:03 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 11/04/2019 08:00:00 AM

Work Order #: 641895

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

Temperature Measuring device used : R8

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11/04/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11/05/2019

Jessica Kramer

Analytical Report 642208

for

Etech Environmental & Safety Solution, Inc

Project Manager: Daniel Dominguez

CVU #47H

11130

07-NOV-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

07-NOV-19

Project Manager: **Daniel Dominguez**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **642208**
CVU #47H
Project Address: Rural Lea

Daniel Dominguez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 642208. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 642208 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

Sample Cross Reference 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MESW 1	S	11-05-19 08:00	2 ft	642208-001
MESW 2	S	11-05-19 08:05	2 ft	642208-002
MESW 3	S	11-05-19 08:10	2 ft	642208-003
MESW 4	S	11-05-19 08:15	2 ft	642208-004
MESW 5	S	11-05-19 08:20	2 ft	642208-005
MESW 6	S	11-05-19 09:00	2 ft	642208-006
MESW 7	S	11-05-19 09:05	2 ft	642208-007
MESW 8	S	11-05-19 09:10	2 ft	642208-008
MESW 9	S	11-05-19 09:15	2 ft	642208-009
MESW 10	S	11-05-19 09:20	2 ft	642208-010
MESW 11	S	11-05-19 09:25	2 ft	642208-011
MESW 12	S	11-05-19 13:00	2 ft	642208-012
MESW 13	S	11-05-19 13:05	2 ft	642208-013
MESW 14	S	11-05-19 13:10	2 ft	642208-014
MESW 15	S	11-05-19 13:15	2 ft	642208-015
MESW 16	S	11-05-19 13:20	2 ft	642208-016
MESW 17	S	11-05-19 13:25	2 ft	642208-017
MESW 18	S	11-05-19 13:30	2 ft	642208-018
MESW 19	S	11-05-19 10:45	2 ft	642208-019
MESW 20	S	11-05-19 10:50	2 ft	642208-020
MESW 21	S	11-05-19 13:30	2 ft	642208-021
MESW 22	S	11-05-19 13:40	2 ft	642208-022
MESW 23	S	11-05-19 13:50	2 ft	642208-023
MESW 24	S	11-05-19 14:00	2 ft	642208-024

Released to Imaging: 8/2/2021 4:21:03 PM

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: CVU #47H

Project ID: *11130*
Work Order Number(s): *642208*

Report Date: *07-NOV-19*
Date Received: *11/06/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3106755 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 642208-023.

Due to matrix, initial run for samples 021-024 was done at a 10x dilution.

Batch: LBA-3106761 BTEX by EPA 8021B
Lab Sample ID 642208-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD).
Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 642208-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.
The Laboratory Control Sample for Toluene, Benzene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected
Samples affected are: 642208-001,642208-020,642208-003,642208-004,642208-005,642208-006,642208-007,642208-008,642208-009,642208-010,642208-011,642208-015,642208-017,642208-018,642208-019,642208-002.

Due to matrix, initial run for samples 001-020 were done at a 10x dilution.

Certificate of Analysis Summary 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: CVU #47H

Project Id: 11130
Contact: Daniel Dominguez
Project Location: Rural Lea

Date Received in Lab: Wed Nov-06-19 11:05 am
Report Date: 07-NOV-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	642208-001		642208-002		642208-003		642208-004		642208-005		642208-006	
	Field Id:	MESW 1		MESW 2		MESW 3		MESW 4		MESW 5		MESW 6	
	Depth:	2- ft		2- ft		2- ft		2- ft		2- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-05-19 08:00		Nov-05-19 08:05		Nov-05-19 08:10		Nov-05-19 08:15		Nov-05-19 08:20		Nov-05-19 09:00	
BTEX by EPA 8021B	*Extracted:*	Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00	
	Analyzed:	Nov-06-19 19:44		Nov-06-19 20:04		Nov-06-19 20:25		Nov-06-19 20:45		Nov-06-19 21:05		Nov-06-19 21:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.0201	0.0201	<0.0199	0.0199	<0.0199	0.0199	<0.0198	0.0198	<0.0200	0.0200	<0.0202	0.0202
Toluene		<0.0201	0.0201	<0.0199	0.0199	<0.0199	0.0199	<0.0198	0.0198	<0.0200	0.0200	<0.0202	0.0202
Ethylbenzene		<0.0201	0.0201	0.0243	0.0199	0.0451	0.0199	<0.0198	0.0198	0.0300	0.0200	<0.0202	0.0202
m,p-Xylenes		0.0447	0.0402	0.0446	0.0398	0.0648	0.0398	<0.0396	0.0396	0.0573	0.0399	0.0422	0.0403
o-Xylene		0.0263	0.0201	0.0245	0.0199	0.0468	0.0199	0.0208	0.0198	0.0367	0.0200	0.0315	0.0202
Total Xylenes		0.0710	0.0201	0.0691	0.0199	0.112	0.0199	0.0208	0.0198	0.0940	0.0200	0.0737	0.0202
Total BTEX		0.0710	0.0201	0.0934	0.0199	0.157	0.0199	0.0208	0.0198	0.124	0.0200	0.0737	0.0202
Chloride by EPA 300	*Extracted:*	Nov-06-19 14:30		Nov-06-19 14:30		Nov-06-19 14:30		Nov-06-19 14:30		Nov-06-19 14:30		Nov-06-19 14:30	
	Analyzed:	Nov-06-19 20:28		Nov-06-19 20:47		Nov-06-19 20:54		Nov-06-19 21:00		Nov-06-19 21:07		Nov-06-19 21:19	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		547	25.0	461	50.4	474	49.6	376	5.00	860	25.0	481	5.05
TPH By SW8015 Mod	*Extracted:*	Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00	
	Analyzed:	Nov-06-19 14:11		Nov-06-19 15:15		Nov-06-19 15:36		Nov-06-19 15:58		Nov-06-19 16:19		Nov-06-19 16:41	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.8	49.8
Diesel Range Organics (DRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.8	49.8
Total TPH		<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.0	50.0	<49.8	49.8

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

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: CVU #47H

Project Id: 11130
Contact: Daniel Dominguez
Project Location: Rural Lea

Date Received in Lab: Wed Nov-06-19 11:05 am
Report Date: 07-NOV-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	642208-007		642208-008		642208-009		642208-010		642208-011		642208-012	
	Field Id:	MESW 7		MESW 8		MESW 9		MESW 10		MESW 11		MESW 12	
	Depth:	2- ft		2- ft		2- ft		2- ft		2- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-05-19 09:05		Nov-05-19 09:10		Nov-05-19 09:15		Nov-05-19 09:20		Nov-05-19 09:25		Nov-05-19 13:00	
BTEX by EPA 8021B	*Extracted:*	Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00	
	Analyzed:	Nov-06-19 21:45		Nov-06-19 22:05		Nov-06-19 22:25		Nov-06-19 22:45		Nov-07-19 00:04		Nov-07-19 00:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.0306	0.0201	<0.0202	0.0202	0.0286	0.0200	0.0252	0.0200	0.0237	0.0201	0.0202	0.0199
Toluene		<0.0201	0.0201	<0.0202	0.0202	<0.0200	0.0200	<0.0200	0.0200	0.0545	0.0201	<0.0199	0.0199
Ethylbenzene		0.0399	0.0201	0.0277	0.0202	<0.0200	0.0200	0.0776	0.0200	0.133	0.0201	0.0254	0.0199
m,p-Xylenes		0.0607	0.0402	0.0421	0.0403	<0.0399	0.0399	0.0973	0.0400	0.150	0.0402	<0.0398	0.0398
o-Xylene		0.0303	0.0201	0.0231	0.0202	<0.0200	0.0200	0.0589	0.0200	0.0837	0.0201	<0.0199	0.0199
Total Xylenes		0.0910	0.0201	0.0652	0.0202	<0.0200	0.0200	0.156	0.0200	0.234	0.0201	<0.0199	0.0199
Total BTEX		0.162	0.0201	0.0929	0.0202	0.0286	0.0200	0.259	0.0200	0.445	0.0201	0.0456	0.0199
Chloride by EPA 300	*Extracted:*	Nov-06-19 14:30		Nov-06-19 14:30		Nov-06-19 14:30		Nov-06-19 14:30		Nov-06-19 14:30		Nov-06-19 14:30	
	Analyzed:	Nov-06-19 21:13		Nov-06-19 21:38		Nov-06-19 21:45		Nov-06-19 22:04		Nov-06-19 22:10		Nov-06-19 22:16	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		817	25.1	468	4.97	14.5	4.99	279	4.95	550	4.95	590	5.04
TPH By SW8015 Mod	*Extracted:*	Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00	
	Analyzed:	Nov-06-19 17:02		Nov-06-19 17:23		Nov-06-19 17:45		Nov-06-19 18:06		Nov-06-19 18:49		Nov-06-19 19:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8
Diesel Range Organics (DRO)		<49.9	49.9	<49.9	49.9	<50.0	50.0	79.9	50.0	110	49.9	<49.8	49.8
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.8	49.8
Total TPH		<49.9	49.9	<49.9	49.9	<50.0	50.0	79.9	50.0	110	49.9	<49.8	49.8

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

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: CVU #47H

Project Id: 11130
Contact: Daniel Dominguez
Project Location: Rural Lea

Date Received in Lab: Wed Nov-06-19 11:05 am
Report Date: 07-NOV-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	642208-013		642208-014		642208-015		642208-016		642208-017		642208-018	
	Field Id:	MESW 13		MESW 14		MESW 15		MESW 16		MESW 17		MESW 18	
	Depth:	2- ft		2- ft		2- ft		2- ft		2- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-05-19 13:05		Nov-05-19 13:10		Nov-05-19 13:15		Nov-05-19 13:20		Nov-05-19 13:25		Nov-05-19 13:30	
BTEX by EPA 8021B	***Extracted:***	Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00	
	Analyzed:	Nov-07-19 00:44		Nov-07-19 01:04		Nov-07-19 01:24		Nov-07-19 01:44		Nov-07-19 02:05		Nov-07-19 02:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.0253	0.0202	<0.0202	0.0202	0.0205	0.0200	<0.0201	0.0201	0.0324	0.0200	<0.0200	0.0200
Toluene		0.439	0.0202	<0.0202	0.0202	<0.0200	0.0200	0.100	0.0201	0.0219	0.0200	0.0442	0.0200
Ethylbenzene		1.06	0.0202	0.0344	0.0202	0.0226	0.0200	0.220	0.0201	0.111	0.0200	0.233	0.0200
m,p-Xylenes		1.16	0.0403	<0.0404	0.0404	<0.0401	0.0401	0.263	0.0402	0.127	0.0401	0.308	0.0399
o-Xylene		0.556	0.0202	<0.0202	0.0202	<0.0200	0.0200	0.140	0.0201	0.0620	0.0200	0.177	0.0200
Total Xylenes		1.72	0.0202	<0.0202	0.0202	<0.0200	0.0200	0.403	0.0201	0.189	0.0200	0.485	0.0200
Total BTEX		3.24	0.0202	0.0344	0.0202	0.0431	0.0200	0.723	0.0201	0.354	0.0200	0.762	0.0200
Chloride by EPA 300	***Extracted:***	Nov-06-19 14:30		Nov-06-19 14:30		Nov-06-19 14:30		Nov-06-19 14:30		Nov-06-19 16:25		Nov-06-19 16:25	
	Analyzed:	Nov-06-19 22:23		Nov-06-19 22:29		Nov-06-19 22:35		Nov-06-19 22:42		Nov-06-19 23:20		Nov-06-19 23:39	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		699	5.00	1930	25.1	2530	25.0	1800	24.8	144	4.98	228	4.99
TPH By SW8015 Mod	***Extracted:***	Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 12:00	
	Analyzed:	Nov-06-19 19:32		Nov-06-19 19:54		Nov-06-19 20:16		Nov-06-19 20:38		Nov-06-19 20:59		Nov-06-19 21:21	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		96.6	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9
Total TPH		96.6	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9

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

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

Jessica Kramer
Project Assistant

Certificate of Analysis Summary 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: CVU #47H

Project Id: 11130
Contact: Daniel Dominguez
Project Location: Rural Lea

Date Received in Lab: Wed Nov-06-19 11:05 am
Report Date: 07-NOV-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	642208-019		642208-020		642208-021		642208-022		642208-023		642208-024	
	Field Id:	MESW 19		MESW 20		MESW 21		MESW 22		MESW 23		MESW 24	
	Depth:	2- ft		2- ft		2- ft		2- ft		2- ft		2- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-05-19 10:45		Nov-05-19 10:50		Nov-05-19 13:30		Nov-05-19 13:40		Nov-05-19 13:50		Nov-05-19 14:00	
BTEX by EPA 8021B	***Extracted:***	Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 11:45		Nov-06-19 11:45		Nov-06-19 11:45		Nov-06-19 11:45	
	Analyzed:	Nov-07-19 02:45		Nov-07-19 03:05		Nov-06-19 18:17		Nov-06-19 18:37		Nov-06-19 18:57		Nov-06-19 19:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.0304	0.0202	0.0372	0.0199	<0.0198	0.0198	<0.0199	0.0199	<0.0198	0.0198	<0.0200	0.0200
Toluene		0.0269	0.0202	0.318	0.0199	0.0575	0.0198	<0.0199	0.0199	0.0806	0.0198	<0.0200	0.0200
Ethylbenzene		0.327	0.0202	1.20	0.0199	0.168	0.0198	<0.0199	0.0199	0.289	0.0198	<0.0200	0.0200
m,p-Xylenes		0.445	0.0403	0.819	0.0398	0.209	0.0397	<0.0398	0.0398	0.199	0.0397	<0.0399	0.0399
o-Xylene		0.274	0.0202	0.842	0.0199	0.153	0.0198	<0.0199	0.0199	0.0598	0.0198	<0.0200	0.0200
Total Xylenes		0.719	0.0202	1.66	0.0199	0.362	0.0198	<0.0199	0.0199	0.259	0.0198	<0.0200	0.0200
Total BTEX		1.10	0.0202	3.22	0.0199	0.588	0.0198	<0.0199	0.0199	0.628	0.0198	<0.0200	0.0200
Chloride by EPA 300	***Extracted:***	Nov-06-19 16:25		Nov-06-19 16:25		Nov-06-19 16:25		Nov-06-19 16:25		Nov-06-19 16:25		Nov-06-19 16:25	
	Analyzed:	Nov-06-19 23:45		Nov-06-19 23:51		Nov-06-19 23:58		Nov-07-19 00:17		Nov-07-19 00:49		Nov-07-19 00:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		192	4.97	656	50.5	164	5.02	149	49.7	19.9	4.98	366	24.8
TPH By SW8015 Mod	***Extracted:***	Nov-06-19 12:00		Nov-06-19 12:00		Nov-06-19 14:00		Nov-06-19 14:00		Nov-06-19 14:00		Nov-06-19 14:00	
	Analyzed:	Nov-06-19 21:43		Nov-06-19 22:05		Nov-07-19 06:46		Nov-07-19 07:08		Nov-07-19 07:29		Nov-07-19 07:51	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Diesel Range Organics (DRO)		103	49.8	123	49.9	61.7	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<49.9	49.9	<50.0	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0
Total TPH		103	49.8	123	49.9	61.7	50.0	<50.0	50.0	<49.9	49.9	<50.0	50.0

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

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 1**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-001	Date Collected:	11.05.19 08.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**547**	25.0	mg/kg	11.06.19 20.28		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.06.19 14.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.06.19 14.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.19 14.11	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.06.19 14.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	80	%	70-135	11.06.19 14.11	
o-Terphenyl	84-15-1	80	%	70-135	11.06.19 14.11	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 1**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-001	Date Collected:	11.05.19 08.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0201	0.0201	mg/kg	11.06.19 19.44	U	10
Toluene	108-88-3	<0.0201	0.0201	mg/kg	11.06.19 19.44	U	10
Ethylbenzene	100-41-4	<0.0201	0.0201	mg/kg	11.06.19 19.44	U	10
m,p-Xylenes	179601-23-1	**0.0447**	0.0402	mg/kg	11.06.19 19.44		10
o-Xylene	95-47-6	**0.0263**	0.0201	mg/kg	11.06.19 19.44		10
Total Xylenes	1330-20-7	**0.0710**	0.0201	mg/kg	11.06.19 19.44		10
Total BTEX		**0.0710**	0.0201	mg/kg	11.06.19 19.44		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.06.19 19.44	
4-Bromofluorobenzene	460-00-4	143	%	70-130	11.06.19 19.44	**

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 2**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-002	Date Collected:	11.05.19 08.05	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**461**	50.4	mg/kg	11.06.19 20.47		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.06.19 15.15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.06.19 15.15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.19 15.15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.06.19 15.15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	11.06.19 15.15	
o-Terphenyl	84-15-1	83	%	70-135	11.06.19 15.15	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 2**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-002	Date Collected:	11.05.19 08.05	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0199	0.0199	mg/kg	11.06.19 20.04	U	10
Toluene	108-88-3	<0.0199	0.0199	mg/kg	11.06.19 20.04	U	10
Ethylbenzene	100-41-4	**0.0243**	0.0199	mg/kg	11.06.19 20.04		10
m,p-Xylenes	179601-23-1	**0.0446**	0.0398	mg/kg	11.06.19 20.04		10
o-Xylene	95-47-6	**0.0245**	0.0199	mg/kg	11.06.19 20.04		10
Total Xylenes	1330-20-7	**0.0691**	0.0199	mg/kg	11.06.19 20.04		10
Total BTEX		**0.0934**	0.0199	mg/kg	11.06.19 20.04		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.06.19 20.04	
4-Bromofluorobenzene	460-00-4	146	%	70-130	11.06.19 20.04	**

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 3**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-003	Date Collected:	11.05.19 08.10	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**474**	49.6	mg/kg	11.06.19 20.54		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.06.19 15.36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.06.19 15.36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.06.19 15.36	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.06.19 15.36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	11.06.19 15.36	
o-Terphenyl	84-15-1	85	%	70-135	11.06.19 15.36	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 3**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-003	Date Collected:	11.05.19 08.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0199	0.0199	mg/kg	11.06.19 20.25	U	10
Toluene	108-88-3	<0.0199	0.0199	mg/kg	11.06.19 20.25	U	10
Ethylbenzene	100-41-4	**0.0451**	0.0199	mg/kg	11.06.19 20.25		10
m,p-Xylenes	179601-23-1	**0.0648**	0.0398	mg/kg	11.06.19 20.25		10
o-Xylene	95-47-6	**0.0468**	0.0199	mg/kg	11.06.19 20.25		10
Total Xylenes	1330-20-7	**0.112**	0.0199	mg/kg	11.06.19 20.25		10
Total BTEX		**0.157**	0.0199	mg/kg	11.06.19 20.25		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	140	%	70-130	11.06.19 20.25	**
1,4-Difluorobenzene	540-36-3	107	%	70-130	11.06.19 20.25	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 4**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-004	Date Collected:	11.05.19 08.15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**376**	5.00	mg/kg	11.06.19 21.00		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.06.19 15.58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.06.19 15.58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.06.19 15.58	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.06.19 15.58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	11.06.19 15.58	
o-Terphenyl	84-15-1	82	%	70-135	11.06.19 15.58	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 4**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-004	Date Collected:	11.05.19 08.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0198	0.0198	mg/kg	11.06.19 20.45	U	10
Toluene	108-88-3	<0.0198	0.0198	mg/kg	11.06.19 20.45	U	10
Ethylbenzene	100-41-4	<0.0198	0.0198	mg/kg	11.06.19 20.45	U	10
m,p-Xylenes	179601-23-1	<0.0396	0.0396	mg/kg	11.06.19 20.45	U	10
o-Xylene	95-47-6	**0.0208**	0.0198	mg/kg	11.06.19 20.45		10
Total Xylenes	1330-20-7	**0.0208**	0.0198	mg/kg	11.06.19 20.45		10
Total BTEX		**0.0208**	0.0198	mg/kg	11.06.19 20.45		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	11.06.19 20.45	
4-Bromofluorobenzene	460-00-4	136	%	70-130	11.06.19 20.45	**

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 5**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-005	Date Collected:	11.05.19 08.20	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**860**	25.0	mg/kg	11.06.19 21.07		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.06.19 16.19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.06.19 16.19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.19 16.19	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.06.19 16.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	11.06.19 16.19	
o-Terphenyl	84-15-1	84	%	70-135	11.06.19 16.19	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 5**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-005	Date Collected:	11.05.19 08.20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0200	0.0200	mg/kg	11.06.19 21.05	U	10
Toluene	108-88-3	<0.0200	0.0200	mg/kg	11.06.19 21.05	U	10
Ethylbenzene	100-41-4	**0.0300**	0.0200	mg/kg	11.06.19 21.05		10
m,p-Xylenes	179601-23-1	**0.0573**	0.0399	mg/kg	11.06.19 21.05		10
o-Xylene	95-47-6	**0.0367**	0.0200	mg/kg	11.06.19 21.05		10
Total Xylenes	1330-20-7	**0.0940**	0.0200	mg/kg	11.06.19 21.05		10
Total BTEX		**0.124**	0.0200	mg/kg	11.06.19 21.05		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	11.06.19 21.05	
4-Bromofluorobenzene	460-00-4	204	%	70-130	11.06.19 21.05	**

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 6**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-006	Date Collected:	11.05.19 09.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**481**	5.05	mg/kg	11.06.19 21.19		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.06.19 16.41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.06.19 16.41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.06.19 16.41	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.06.19 16.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	11.06.19 16.41	
o-Terphenyl	84-15-1	84	%	70-135	11.06.19 16.41	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 6**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-006	Date Collected:	11.05.19 09.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0202	0.0202	mg/kg	11.06.19 21.25	U	10
Toluene	108-88-3	<0.0202	0.0202	mg/kg	11.06.19 21.25	U	10
Ethylbenzene	100-41-4	<0.0202	0.0202	mg/kg	11.06.19 21.25	U	10
m,p-Xylenes	179601-23-1	**0.0422**	0.0403	mg/kg	11.06.19 21.25		10
o-Xylene	95-47-6	**0.0315**	0.0202	mg/kg	11.06.19 21.25		10
Total Xylenes	1330-20-7	**0.0737**	0.0202	mg/kg	11.06.19 21.25		10
Total BTEX		**0.0737**	0.0202	mg/kg	11.06.19 21.25		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	111	%	70-130	11.06.19 21.25	
4-Bromofluorobenzene	460-00-4	169	%	70-130	11.06.19 21.25	**

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 7**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-007	Date Collected:	11.05.19 09.05	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**817**	25.1	mg/kg	11.06.19 21.13		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.06.19 17.02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.06.19 17.02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.06.19 17.02	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.06.19 17.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	11.06.19 17.02	
o-Terphenyl	84-15-1	84	%	70-135	11.06.19 17.02	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 7**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-007	Date Collected:	11.05.19 09.05	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0306**	0.0201	mg/kg	11.06.19 21.45		10
Toluene	108-88-3	<0.0201	0.0201	mg/kg	11.06.19 21.45	U	10
Ethylbenzene	100-41-4	**0.0399**	0.0201	mg/kg	11.06.19 21.45		10
m,p-Xylenes	179601-23-1	**0.0607**	0.0402	mg/kg	11.06.19 21.45		10
o-Xylene	95-47-6	**0.0303**	0.0201	mg/kg	11.06.19 21.45		10
Total Xylenes	1330-20-7	**0.0910**	0.0201	mg/kg	11.06.19 21.45		10
Total BTEX		**0.162**	0.0201	mg/kg	11.06.19 21.45		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.06.19 21.45	
4-Bromofluorobenzene	460-00-4	162	%	70-130	11.06.19 21.45	**

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 8**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-008	Date Collected:	11.05.19 09.10	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**468**	4.97	mg/kg	11.06.19 21.38		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.06.19 17.23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.06.19 17.23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.06.19 17.23	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.06.19 17.23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	11.06.19 17.23	
o-Terphenyl	84-15-1	88	%	70-135	11.06.19 17.23	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 8**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-008	Date Collected:	11.05.19 09.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0202	0.0202	mg/kg	11.06.19 22.05	U	10
Toluene	108-88-3	<0.0202	0.0202	mg/kg	11.06.19 22.05	U	10
Ethylbenzene	100-41-4	**0.0277**	0.0202	mg/kg	11.06.19 22.05		10
m,p-Xylenes	179601-23-1	**0.0421**	0.0403	mg/kg	11.06.19 22.05		10
o-Xylene	95-47-6	**0.0231**	0.0202	mg/kg	11.06.19 22.05		10
Total Xylenes	1330-20-7	**0.0652**	0.0202	mg/kg	11.06.19 22.05		10
Total BTEX		**0.0929**	0.0202	mg/kg	11.06.19 22.05		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	131	%	70-130	11.06.19 22.05	**
1,4-Difluorobenzene	540-36-3	118	%	70-130	11.06.19 22.05	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 9**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-009	Date Collected:	11.05.19 09.15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**14.5**	4.99	mg/kg	11.06.19 21.45		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.06.19 17.45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.06.19 17.45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.19 17.45	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.06.19 17.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	11.06.19 17.45	
o-Terphenyl	84-15-1	87	%	70-135	11.06.19 17.45	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 9**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-009	Date Collected:	11.05.19 09.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0286**	0.0200	mg/kg	11.06.19 22.25		10
Toluene	108-88-3	<0.0200	0.0200	mg/kg	11.06.19 22.25	U	10
Ethylbenzene	100-41-4	<0.0200	0.0200	mg/kg	11.06.19 22.25	U	10
m,p-Xylenes	179601-23-1	<0.0399	0.0399	mg/kg	11.06.19 22.25	U	10
o-Xylene	95-47-6	<0.0200	0.0200	mg/kg	11.06.19 22.25	U	10
Total Xylenes	1330-20-7	<0.0200	0.0200	mg/kg	11.06.19 22.25	U	10
Total BTEX		**0.0286**	0.0200	mg/kg	11.06.19 22.25		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	170	%	70-130	11.06.19 22.25	**
1,4-Difluorobenzene	540-36-3	112	%	70-130	11.06.19 22.25	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 10**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-010	Date Collected:	11.05.19 09.20	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**279**	4.95	mg/kg	11.06.19 22.04		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.06.19 18.06	U	1
Diesel Range Organics (DRO)	C10C28DRO	**79.9**	50.0	mg/kg	11.06.19 18.06		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.19 18.06	U	1
Total TPH	PHC635	**79.9**	50.0	mg/kg	11.06.19 18.06		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	11.06.19 18.06	
o-Terphenyl	84-15-1	85	%	70-135	11.06.19 18.06	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 10**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-010	Date Collected:	11.05.19 09.20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0252**	0.0200	mg/kg	11.06.19 22.45		10
Toluene	108-88-3	<0.0200	0.0200	mg/kg	11.06.19 22.45	U	10
Ethylbenzene	100-41-4	**0.0776**	0.0200	mg/kg	11.06.19 22.45		10
m,p-Xylenes	179601-23-1	**0.0973**	0.0400	mg/kg	11.06.19 22.45		10
o-Xylene	95-47-6	**0.0589**	0.0200	mg/kg	11.06.19 22.45		10
Total Xylenes	1330-20-7	**0.156**	0.0200	mg/kg	11.06.19 22.45		10
Total BTEX		**0.259**	0.0200	mg/kg	11.06.19 22.45		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	165	%	70-130	11.06.19 22.45	**
1,4-Difluorobenzene	540-36-3	110	%	70-130	11.06.19 22.45	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 11**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-011	Date Collected:	11.05.19 09.25	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**550**	4.95	mg/kg	11.06.19 22.10		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.06.19 18.49	U	1
Diesel Range Organics (DRO)	C10C28DRO	**110**	49.9	mg/kg	11.06.19 18.49		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.06.19 18.49	U	1
Total TPH	PHC635	**110**	49.9	mg/kg	11.06.19 18.49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	11.06.19 18.49	
o-Terphenyl	84-15-1	83	%	70-135	11.06.19 18.49	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 11**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-011	Date Collected:	11.05.19 09.25	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0237**	0.0201	mg/kg	11.07.19 00.04		10
Toluene	108-88-3	**0.0545**	0.0201	mg/kg	11.07.19 00.04		10
Ethylbenzene	100-41-4	**0.133**	0.0201	mg/kg	11.07.19 00.04		10
m,p-Xylenes	179601-23-1	**0.150**	0.0402	mg/kg	11.07.19 00.04		10
o-Xylene	95-47-6	**0.0837**	0.0201	mg/kg	11.07.19 00.04		10
Total Xylenes	1330-20-7	**0.234**	0.0201	mg/kg	11.07.19 00.04		10
Total BTEX		**0.445**	0.0201	mg/kg	11.07.19 00.04		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	184	%	70-130	11.07.19 00.04	**
1,4-Difluorobenzene	540-36-3	112	%	70-130	11.07.19 00.04	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 12**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-012	Date Collected:	11.05.19 13.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**590**	5.04	mg/kg	11.06.19 22.16		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.06.19 19.11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.06.19 19.11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.06.19 19.11	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.06.19 19.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	11.06.19 19.11	
o-Terphenyl	84-15-1	86	%	70-135	11.06.19 19.11	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 12**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-012	Date Collected:	11.05.19 13.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0202**	0.0199	mg/kg	11.07.19 00.24		10
Toluene	108-88-3	<0.0199	0.0199	mg/kg	11.07.19 00.24	U	10
Ethylbenzene	100-41-4	**0.0254**	0.0199	mg/kg	11.07.19 00.24		10
m,p-Xylenes	179601-23-1	<0.0398	0.0398	mg/kg	11.07.19 00.24	U	10
o-Xylene	95-47-6	<0.0199	0.0199	mg/kg	11.07.19 00.24	U	10
Total Xylenes	1330-20-7	<0.0199	0.0199	mg/kg	11.07.19 00.24	U	10
Total BTEX		**0.0456**	0.0199	mg/kg	11.07.19 00.24		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.07.19 00.24	
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.07.19 00.24	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 13**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-013	Date Collected:	11.05.19 13.05	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**699**	5.00	mg/kg	11.06.19 22.23		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.06.19 19.32	U	1
Diesel Range Organics (DRO)	C10C28DRO	**96.6**	50.0	mg/kg	11.06.19 19.32		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.19 19.32	U	1
Total TPH	PHC635	**96.6**	50.0	mg/kg	11.06.19 19.32		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	90	%	70-135	11.06.19 19.32	
o-Terphenyl	84-15-1	86	%	70-135	11.06.19 19.32	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 13**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-013	Date Collected:	11.05.19 13.05	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0253**	0.0202	mg/kg	11.07.19 00.44		10
Toluene	108-88-3	**0.439**	0.0202	mg/kg	11.07.19 00.44		10
Ethylbenzene	100-41-4	**1.06**	0.0202	mg/kg	11.07.19 00.44		10
m,p-Xylenes	179601-23-1	**1.16**	0.0403	mg/kg	11.07.19 00.44		10
o-Xylene	95-47-6	**0.556**	0.0202	mg/kg	11.07.19 00.44		10
Total Xylenes	1330-20-7	**1.72**	0.0202	mg/kg	11.07.19 00.44		10
Total BTEX		**3.24**	0.0202	mg/kg	11.07.19 00.44		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.07.19 00.44	
1,4-Difluorobenzene	540-36-3	110	%	70-130	11.07.19 00.44	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 14**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-014	Date Collected:	11.05.19 13.10	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1930**	25.1	mg/kg	11.06.19 22.29		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.06.19 19.54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.06.19 19.54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.19 19.54	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.06.19 19.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	11.06.19 19.54	
o-Terphenyl	84-15-1	83	%	70-135	11.06.19 19.54	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 14**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-014	Date Collected:	11.05.19 13.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0202	0.0202	mg/kg	11.07.19 01.04	U	10
Toluene	108-88-3	<0.0202	0.0202	mg/kg	11.07.19 01.04	U	10
Ethylbenzene	100-41-4	**0.0344**	0.0202	mg/kg	11.07.19 01.04		10
m,p-Xylenes	179601-23-1	<0.0404	0.0404	mg/kg	11.07.19 01.04	U	10
o-Xylene	95-47-6	<0.0202	0.0202	mg/kg	11.07.19 01.04	U	10
Total Xylenes	1330-20-7	<0.0202	0.0202	mg/kg	11.07.19 01.04	U	10
Total BTEX		**0.0344**	0.0202	mg/kg	11.07.19 01.04		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	108	%	70-130	11.07.19 01.04	
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.07.19 01.04	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 15**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-015	Date Collected:	11.05.19 13.15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2530**	25.0	mg/kg	11.06.19 22.35		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.06.19 20.16	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.06.19 20.16	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.06.19 20.16	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.06.19 20.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	11.06.19 20.16	
o-Terphenyl	84-15-1	87	%	70-135	11.06.19 20.16	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 15**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-015	Date Collected:	11.05.19 13.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0205**	0.0200	mg/kg	11.07.19 01.24		10
Toluene	108-88-3	<0.0200	0.0200	mg/kg	11.07.19 01.24	U	10
Ethylbenzene	100-41-4	**0.0226**	0.0200	mg/kg	11.07.19 01.24		10
m,p-Xylenes	179601-23-1	<0.0401	0.0401	mg/kg	11.07.19 01.24	U	10
o-Xylene	95-47-6	<0.0200	0.0200	mg/kg	11.07.19 01.24	U	10
Total Xylenes	1330-20-7	<0.0200	0.0200	mg/kg	11.07.19 01.24	U	10
Total BTEX		**0.0431**	0.0200	mg/kg	11.07.19 01.24		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	135	%	70-130	11.07.19 01.24	**
1,4-Difluorobenzene	540-36-3	107	%	70-130	11.07.19 01.24	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 16**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-016	Date Collected:	11.05.19 13.20	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 14.30	Basis:	Wet Weight
Seq Number:	3106726				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1800**	24.8	mg/kg	11.06.19 22.42		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.06.19 20.38	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.06.19 20.38	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.19 20.38	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.06.19 20.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	11.06.19 20.38	
o-Terphenyl	84-15-1	83	%	70-135	11.06.19 20.38	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 16**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-016	Date Collected:	11.05.19 13.20	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0201	0.0201	mg/kg	11.07.19 01.44	U	10
Toluene	108-88-3	**0.100**	0.0201	mg/kg	11.07.19 01.44		10
Ethylbenzene	100-41-4	**0.220**	0.0201	mg/kg	11.07.19 01.44		10
m,p-Xylenes	179601-23-1	**0.263**	0.0402	mg/kg	11.07.19 01.44		10
o-Xylene	95-47-6	**0.140**	0.0201	mg/kg	11.07.19 01.44		10
Total Xylenes	1330-20-7	**0.403**	0.0201	mg/kg	11.07.19 01.44		10
Total BTEX		**0.723**	0.0201	mg/kg	11.07.19 01.44		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.07.19 01.44	
1,4-Difluorobenzene	540-36-3	111	%	70-130	11.07.19 01.44	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 17**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-017	Date Collected:	11.05.19 13.25	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 16.25	Basis:	Wet Weight
Seq Number:	3106729				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**144**	4.98	mg/kg	11.06.19 23.20		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.06.19 20.59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.06.19 20.59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.06.19 20.59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.06.19 20.59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	81	%	70-135	11.06.19 20.59	
o-Terphenyl	84-15-1	82	%	70-135	11.06.19 20.59	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 17**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-017	Date Collected:	11.05.19 13.25	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0324**	0.0200	mg/kg	11.07.19 02.05		10
Toluene	108-88-3	**0.0219**	0.0200	mg/kg	11.07.19 02.05		10
Ethylbenzene	100-41-4	**0.111**	0.0200	mg/kg	11.07.19 02.05		10
m,p-Xylenes	179601-23-1	**0.127**	0.0401	mg/kg	11.07.19 02.05		10
o-Xylene	95-47-6	**0.0620**	0.0200	mg/kg	11.07.19 02.05		10
Total Xylenes	1330-20-7	**0.189**	0.0200	mg/kg	11.07.19 02.05		10
Total BTEX		**0.354**	0.0200	mg/kg	11.07.19 02.05		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	192	%	70-130	11.07.19 02.05	**
1,4-Difluorobenzene	540-36-3	112	%	70-130	11.07.19 02.05	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 18**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-018	Date Collected:	11.05.19 13.30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 16.25	Basis:	Wet Weight
Seq Number:	3106729				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**228**	4.99	mg/kg	11.06.19 23.39		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.06.19 21.21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.06.19 21.21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.06.19 21.21	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.06.19 21.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	11.06.19 21.21	
o-Terphenyl	84-15-1	83	%	70-135	11.06.19 21.21	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 18**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-018	Date Collected:	11.05.19 13.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0200	0.0200	mg/kg	11.07.19 02.25	U	10
Toluene	108-88-3	**0.0442**	0.0200	mg/kg	11.07.19 02.25		10
Ethylbenzene	100-41-4	**0.233**	0.0200	mg/kg	11.07.19 02.25		10
m,p-Xylenes	179601-23-1	**0.308**	0.0399	mg/kg	11.07.19 02.25		10
o-Xylene	95-47-6	**0.177**	0.0200	mg/kg	11.07.19 02.25		10
Total Xylenes	1330-20-7	**0.485**	0.0200	mg/kg	11.07.19 02.25		10
Total BTEX		**0.762**	0.0200	mg/kg	11.07.19 02.25		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	140	%	70-130	11.07.19 02.25	**
1,4-Difluorobenzene	540-36-3	119	%	70-130	11.07.19 02.25	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 19**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-019	Date Collected:	11.05.19 10.45	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 16.25	Basis:	Wet Weight
Seq Number:	3106729				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**192**	4.97	mg/kg	11.06.19 23.45		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.06.19 21.43	U	1
Diesel Range Organics (DRO)	C10C28DRO	**103**	49.8	mg/kg	11.06.19 21.43		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.06.19 21.43	U	1
Total TPH	PHC635	**103**	49.8	mg/kg	11.06.19 21.43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	85	%	70-135	11.06.19 21.43	
o-Terphenyl	84-15-1	84	%	70-135	11.06.19 21.43	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 19**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-019	Date Collected:	11.05.19 10.45	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0304**	0.0202	mg/kg	11.07.19 02.45		10
Toluene	108-88-3	**0.0269**	0.0202	mg/kg	11.07.19 02.45		10
Ethylbenzene	100-41-4	**0.327**	0.0202	mg/kg	11.07.19 02.45		10
m,p-Xylenes	179601-23-1	**0.445**	0.0403	mg/kg	11.07.19 02.45		10
o-Xylene	95-47-6	**0.274**	0.0202	mg/kg	11.07.19 02.45		10
Total Xylenes	1330-20-7	**0.719**	0.0202	mg/kg	11.07.19 02.45		10
Total BTEX		**1.10**	0.0202	mg/kg	11.07.19 02.45		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	117	%	70-130	11.07.19 02.45	
4-Bromofluorobenzene	460-00-4	208	%	70-130	11.07.19 02.45	**

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 20**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-020	Date Collected:	11.05.19 10.50	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 16.25	Basis:	Wet Weight
Seq Number:	3106729				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**656**	50.5	mg/kg	11.06.19 23.51		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106763				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.06.19 22.05	U	1
Diesel Range Organics (DRO)	C10C28DRO	**123**	49.9	mg/kg	11.06.19 22.05		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.06.19 22.05	U	1
Total TPH	PHC635	**123**	49.9	mg/kg	11.06.19 22.05		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	87	%	70-135	11.06.19 22.05	
o-Terphenyl	84-15-1	82	%	70-135	11.06.19 22.05	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 20**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-020	Date Collected:	11.05.19 10.50	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 12.00	Basis:	Wet Weight
Seq Number:	3106761				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	**0.0372**	0.0199	mg/kg	11.07.19 03.05		10
Toluene	108-88-3	**0.318**	0.0199	mg/kg	11.07.19 03.05		10
Ethylbenzene	100-41-4	**1.20**	0.0199	mg/kg	11.07.19 03.05		10
m,p-Xylenes	179601-23-1	**0.819**	0.0398	mg/kg	11.07.19 03.05		10
o-Xylene	95-47-6	**0.842**	0.0199	mg/kg	11.07.19 03.05		10
Total Xylenes	1330-20-7	**1.66**	0.0199	mg/kg	11.07.19 03.05		10
Total BTEX		**3.22**	0.0199	mg/kg	11.07.19 03.05		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	212	%	70-130	11.07.19 03.05	**
1,4-Difluorobenzene	540-36-3	113	%	70-130	11.07.19 03.05	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 21**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-021	Date Collected:	11.05.19 13.30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 16.25	Basis:	Wet Weight
Seq Number:	3106729				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**164**	5.02	mg/kg	11.06.19 23.58		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 14.00	Basis:	Wet Weight
Seq Number:	3106764				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.07.19 06.46	U	1
Diesel Range Organics (DRO)	C10C28DRO	**61.7**	50.0	mg/kg	11.07.19 06.46		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.07.19 06.46	U	1
Total TPH	PHC635	**61.7**	50.0	mg/kg	11.07.19 06.46		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	84	%	70-135	11.07.19 06.46	
o-Terphenyl	84-15-1	84	%	70-135	11.07.19 06.46	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 21**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-021	Date Collected:	11.05.19 13.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 11.45	Basis:	Wet Weight
Seq Number:	3106755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0198	0.0198	mg/kg	11.06.19 18.17	U	10
Toluene	108-88-3	**0.0575**	0.0198	mg/kg	11.06.19 18.17		10
Ethylbenzene	100-41-4	**0.168**	0.0198	mg/kg	11.06.19 18.17		10
m,p-Xylenes	179601-23-1	**0.209**	0.0397	mg/kg	11.06.19 18.17		10
o-Xylene	95-47-6	**0.153**	0.0198	mg/kg	11.06.19 18.17		10
Total Xylenes	1330-20-7	**0.362**	0.0198	mg/kg	11.06.19 18.17		10
Total BTEX		**0.588**	0.0198	mg/kg	11.06.19 18.17		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	100	%	70-130	11.06.19 18.17	
4-Bromofluorobenzene	460-00-4	109	%	70-130	11.06.19 18.17	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 22**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-022	Date Collected:	11.05.19 13.40	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 16.25	Basis:	Wet Weight
Seq Number:	3106729				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**149**	49.7	mg/kg	11.07.19 00.17		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 14.00	Basis:	Wet Weight
Seq Number:	3106764				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.07.19 07.08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.07.19 07.08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.07.19 07.08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.07.19 07.08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	11.07.19 07.08	
o-Terphenyl	84-15-1	84	%	70-135	11.07.19 07.08	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 22**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-022	Date Collected:	11.05.19 13.40	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 11.45	Basis:	Wet Weight
Seq Number:	3106755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0199	0.0199	mg/kg	11.06.19 18.37	U	10
Toluene	108-88-3	<0.0199	0.0199	mg/kg	11.06.19 18.37	U	10
Ethylbenzene	100-41-4	<0.0199	0.0199	mg/kg	11.06.19 18.37	U	10
m,p-Xylenes	179601-23-1	<0.0398	0.0398	mg/kg	11.06.19 18.37	U	10
o-Xylene	95-47-6	<0.0199	0.0199	mg/kg	11.06.19 18.37	U	10
Total Xylenes	1330-20-7	<0.0199	0.0199	mg/kg	11.06.19 18.37	U	10
Total BTEX		<0.0199	0.0199	mg/kg	11.06.19 18.37	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.06.19 18.37	
4-Bromofluorobenzene	460-00-4	114	%	70-130	11.06.19 18.37	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 23**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-023	Date Collected:	11.05.19 13.50	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 16.25	Basis:	Wet Weight
Seq Number:	3106729				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**19.9**	4.98	mg/kg	11.07.19 00.49		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 14.00	Basis:	Wet Weight
Seq Number:	3106764				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.07.19 07.29	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.07.19 07.29	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.07.19 07.29	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.07.19 07.29	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	11.07.19 07.29	
o-Terphenyl	84-15-1	84	%	70-135	11.07.19 07.29	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 23**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-023	Date Collected:	11.05.19 13.50	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 11.45	Basis:	Wet Weight
Seq Number:	3106755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0198	0.0198	mg/kg	11.06.19 18.57	U	10
Toluene	108-88-3	**0.0806**	0.0198	mg/kg	11.06.19 18.57		10
Ethylbenzene	100-41-4	**0.289**	0.0198	mg/kg	11.06.19 18.57		10
m,p-Xylenes	179601-23-1	**0.199**	0.0397	mg/kg	11.06.19 18.57		10
o-Xylene	95-47-6	**0.0598**	0.0198	mg/kg	11.06.19 18.57		10
Total Xylenes	1330-20-7	**0.259**	0.0198	mg/kg	11.06.19 18.57		10
Total BTEX		**0.628**	0.0198	mg/kg	11.06.19 18.57		10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	139	%	70-130	11.06.19 18.57	**
1,4-Difluorobenzene	540-36-3	112	%	70-130	11.06.19 18.57	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 24**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-024	Date Collected:	11.05.19 14.00	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	
Analyst:	CHE	Date Prep:	11.06.19 16.25	Basis:	Wet Weight
Seq Number:	3106729				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**366**	24.8	mg/kg	11.07.19 00.23		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DVM			% Moisture:	
Analyst:	ARM	Date Prep:	11.06.19 14.00	Basis:	Wet Weight
Seq Number:	3106764				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.07.19 07.51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.07.19 07.51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.07.19 07.51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.07.19 07.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	86	%	70-135	11.07.19 07.51	
o-Terphenyl	84-15-1	85	%	70-135	11.07.19 07.51	

Certificate of Analytical Results 642208

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MESW 24**	Matrix:	Soil	Date Received:	11.06.19 11.05
Lab Sample Id:	642208-024	Date Collected:	11.05.19 14.00	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	KTL			% Moisture:	
Analyst:	KTL	Date Prep:	11.06.19 11.45	Basis:	Wet Weight
Seq Number:	3106755				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.0200	0.0200	mg/kg	11.06.19 19.18	U	10
Toluene	108-88-3	<0.0200	0.0200	mg/kg	11.06.19 19.18	U	10
Ethylbenzene	100-41-4	<0.0200	0.0200	mg/kg	11.06.19 19.18	U	10
m,p-Xylenes	179601-23-1	<0.0399	0.0399	mg/kg	11.06.19 19.18	U	10
o-Xylene	95-47-6	<0.0200	0.0200	mg/kg	11.06.19 19.18	U	10
Total Xylenes	1330-20-7	<0.0200	0.0200	mg/kg	11.06.19 19.18	U	10
Total BTEX		<0.0200	0.0200	mg/kg	11.06.19 19.18	U	10

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	112	%	70-130	11.06.19 19.18	
4-Bromofluorobenzene	460-00-4	125	%	70-130	11.06.19 19.18	

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

QC Summary 642208

Etech Environmental & Safety Solution, Inc

CVU #47H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3106726 — Matrix: Solid — Date Prep: 11.06.19
MB Sample Id: 7689757-1-BLK — LCS Sample Id: 7689757-1-BKS — LCSD Sample Id: 7689757-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	261	104	262	105	90-110	0	20	mg/kg	11.06.19 19:38	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3106729 — Matrix: Solid — Date Prep: 11.06.19
MB Sample Id: 7689775-1-BLK — LCS Sample Id: 7689775-1-BKS — LCSD Sample Id: 7689775-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.858	250	263	105	262	105	90-110	0	20	mg/kg	11.06.19 23:07	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3106726 — Matrix: Soil — Date Prep: 11.06.19
Parent Sample Id: 642176-021 — MS Sample Id: 642176-021 S — MSD Sample Id: 642176-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	4.62	250	276	109	275	108	90-110	0	20	mg/kg	11.06.19 19:57	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3106726 — Matrix: Soil — Date Prep: 11.06.19
Parent Sample Id: 642208-006 — MS Sample Id: 642208-006 S — MSD Sample Id: 642208-006 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	481	253	728	98	726	97	90-110	0	20	mg/kg	11.06.19 21:26	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3106729 — Matrix: Soil — Date Prep: 11.06.19
Parent Sample Id: 642208-017 — MS Sample Id: 642208-017 S — MSD Sample Id: 642208-017 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	144	249	403	104	403	104	90-110	0	20	mg/kg	11.06.19 23:26	

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

QC Summary 642208

Etech Environmental & Safety Solution, Inc

CVU #47H

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3106729 Matrix: Soil Date Prep: 11.06.19
Parent Sample Id: 642208-023 MS Sample Id: 642208-023 S MSD Sample Id: 642208-023 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	19.9	249	292	109	290	108	90-110	1	20	mg/kg	11.07.19 00:55	

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3106763 Matrix: Solid Date Prep: 11.06.19
MB Sample Id: 7689741-1-BLK LCS Sample Id: 7689741-1-BKS LCSD Sample Id: 7689741-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	860	86	861	86	70-135	0	20	mg/kg	11.06.19 13:28	
Diesel Range Organics (DRO)	<50.0	1000	897	90	885	89	70-135	1	20	mg/kg	11.06.19 13:28	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	80		92		82		70-135	%	11.06.19 13:28
o-Terphenyl	80		88		81		70-135	%	11.06.19 13:28

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3106764 Matrix: Solid Date Prep: 11.06.19
MB Sample Id: 7689747-1-BLK LCS Sample Id: 7689747-1-BKS LCSD Sample Id: 7689747-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	947	95	962	96	70-135	2	20	mg/kg	11.06.19 23:10	
Diesel Range Organics (DRO)	<50.0	1000	1010	101	1030	103	70-135	2	20	mg/kg	11.06.19 23:10	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	98		103		104		70-135	%	11.06.19 23:10
o-Terphenyl	101		105		105		70-135	%	11.06.19 23:10

Analytical Method: **TPH By SW8015 Mod** Prep Method: SW8015P
Seq Number: 3106763 Matrix: Solid Date Prep: 11.06.19
MB Sample Id: 7689741-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.06.19 13:07	

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

QC Summary 642208

Etech Environmental & Safety Solution, Inc

CVU #47H

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3106764 — Matrix: Solid — Date Prep: 11.06.19
MB Sample Id: 7689747-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.06.19 22:48	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3106763 — Matrix: Soil — Date Prep: 11.06.19
Parent Sample Id: 642208-001 — MS Sample Id: 642208-001 S — MSD Sample Id: 642208-001 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)	<14.9	996	886	89	897	90	70-135	1	20	mg/kg	11.06.19 14:33	
Diesel Range Organics (DRO)	26.6	996	910	89	902	88	70-135	1	20	mg/kg	11.06.19 14:33	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	88		88		70-135	%	11.06.19 14:33
o-Terphenyl	86		85		70-135	%	11.06.19 14:33

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3106764 — Matrix: Soil — Date Prep: 11.06.19
Parent Sample Id: 642028-001 — MS Sample Id: 642028-001 S — MSD Sample Id: 642028-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	939	94	905	91	70-135	4	20	mg/kg	11.07.19 00:15	
Diesel Range Organics (DRO)	15.7	998	993	98	971	96	70-135	2	20	mg/kg	11.07.19 00:15	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	101		96		70-135	%	11.07.19 00:15
o-Terphenyl	97		95		70-135	%	11.07.19 00:15

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

QC Summary 642208

Etech Environmental & Safety Solution, Inc

CVU #47H

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3106755 — Matrix: Solid — Date Prep: 11.06.19
MB Sample Id: 7689710-1-BLK — LCS Sample Id: 7689710-1-BKS — LCSD Sample Id: 7689710-1-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	0.105	105	70-130	6	35	mg/kg	11.06.19 10:55	
Toluene	<0.00200	0.100	0.0948	95	0.101	101	70-130	6	35	mg/kg	11.06.19 10:55	
Ethylbenzene	<0.00200	0.100	0.0977	98	0.102	102	70-130	4	35	mg/kg	11.06.19 10:55	
m,p-Xylenes	<0.00400	0.200	0.202	101	0.207	104	70-130	2	35	mg/kg	11.06.19 10:55	
o-Xylene	<0.00200	0.100	0.0934	93	0.0991	99	70-130	6	35	mg/kg	11.06.19 10:55	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		98		104		70-130	%	11.06.19 10:55
4-Bromofluorobenzene	96		105		116		70-130	%	11.06.19 10:55

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3106761 — Matrix: Solid — Date Prep: 11.06.19
MB Sample Id: 7689711-1-BLK — LCS Sample Id: 7689711-1-BKS — LCSD Sample Id: 7689711-1-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	0.0891	89	0.0921	92	70-130	3	35	mg/kg	11.06.19 17:45	
Toluene	<0.00200	0.100	0.0948	95	0.0985	99	70-130	4	35	mg/kg	11.06.19 17:45	
Ethylbenzene	<0.00200	0.100	0.102	102	0.106	106	70-130	4	35	mg/kg	11.06.19 17:45	
m,p-Xylenes	<0.00400	0.200	0.211	106	0.218	109	70-130	3	35	mg/kg	11.06.19 17:45	
o-Xylene	<0.00200	0.100	0.105	105	0.109	109	70-130	4	35	mg/kg	11.06.19 17:45	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	91		94		93		70-130	%	11.06.19 17:45
4-Bromofluorobenzene	97		108		105		70-130	%	11.06.19 17:45

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3106755 — Matrix: Soil — Date Prep: 11.06.19
Parent Sample Id: 642157-001 — MS Sample Id: 642157-001 S — MSD Sample Id: 642157-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0994	0.110	111	0.102	103	70-130	8	35	mg/kg	11.06.19 12:10	
Toluene	<0.00199	0.0994	0.103	104	0.0985	99	70-130	4	35	mg/kg	11.06.19 12:10	
Ethylbenzene	<0.00199	0.0994	0.0973	98	0.0941	95	70-130	3	35	mg/kg	11.06.19 12:10	
m,p-Xylenes	<0.00398	0.199	0.194	97	0.190	95	70-130	2	35	mg/kg	11.06.19 12:10	
o-Xylene	<0.00199	0.0994	0.0892	90	0.0887	89	70-130	1	35	mg/kg	11.06.19 12:10	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	107		105		70-130	%	11.06.19 12:10
4-Bromofluorobenzene	106		107		70-130	%	11.06.19 12:10

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

QC Summary 642208

Etech Environmental & Safety Solution, Inc

CVU #47H

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

Seq Number: 3106761 Matrix: Soil Date Prep: 11.06.19

Parent Sample Id: 642208-001 MS Sample Id: 642208-001 S MSD Sample Id: 642208-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00198	0.0992	0.0441	44	0.0608	61	70-130	32	35	mg/kg	11.06.19 18:25	X
Toluene	<0.00198	0.0992	0.0561	57	0.0679	68	70-130	19	35	mg/kg	11.06.19 18:25	X
Ethylbenzene	0.0164	0.0992	0.0532	37	0.0630	47	70-130	17	35	mg/kg	11.06.19 18:25	X
m,p-Xylenes	0.0447	0.198	0.109	32	0.145	50	70-130	28	35	mg/kg	11.06.19 18:25	X
o-Xylene	0.0263	0.0992	0.0626	37	0.0826	56	70-130	28	35	mg/kg	11.06.19 18:25	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	96		98		70-130	%	11.06.19 18:25
4-Bromofluorobenzene	109		114		70-130	%	11.06.19 18:25

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

Page 240 of 650

Chain of Custody

Work Order No: 1042268

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

Project Manager:	Daniel Dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	Chevron Environmental Management
Address:	P.O. Box 301	Address:	1500 Louisiana St Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	(575) 396-2378	Email:	danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:	11130	Routine:	☐
Project Location	Rural Lea	Rush:	☐
Sampler's Name:	Matthew Grieco	Due Date:	
PO #:			

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0-3	Thermometer ID	28		
Received Intact:	(Yes) No				
Cooler Custody Seals:	Yes No N/A	Correction Factor:			
Sample Custody Seals:	Yes No N/A	Total Containers:			

Preservative Codes

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

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride	TPH (8015M)	BTEX (8021B)	Sample Comments
MESW 11	Soil	11/5/2019	9:25	2'	1/NO	x	x	x	
MESW 12	Soil	11/4/2019	13:00	2'	1/NO	x	x	x	
MESW 13	Soil	11/4/2019	13:05	2'	1/NO	x	x	x	
MESW 14	Soil	11/4/2019	13:10	2'	1/NO	x	x	x	
MESW 15	Soil	11/4/2019	13:15	2'	1/NO	x	x	x	
MESW 16	Soil	11/4/2019	13:20	2'	1/NO	x	x	x	
MESW 17	Soil	11/4/2019	13:25	2'	1/NO	x	x	x	
MESW 18	Soil	11/4/2019	13:30	2'	1/NO	x	x	x	
MESW 19	Soil	11/5/2019	10:45	2'	1/NO	x	x	x	
MESW 20	Soil	11/5/2019	10:50	2'	1/NO	x	x	x	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr 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		Jessica Tuttle	11-5-19 424	2 Jessica Tuttle		11/6/19
3				4		1105
5				6		

Revised Date 101419 Rev. 2019.1

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 63 of 67
Released to Imaging: 8/2/2021 4:21:03 PM

Page 241 of 650

Chain of Custody

Work Order No: 1642208

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

Project Manager:	Daniel Dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	Chevron Environmental Management
Address:	P.O. Box 301	Address:	1500 Louisiana St Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	(575) 396-2378 Email: danield@etechenv.com		

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:	11130	Routine: ☐	
Project Location	Rural Lea	Rush: ☐	
Sampler's Name:	Matthew Grieco	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.3	Thermometer ID:	VE	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride	TPH (8015M)	BTEX (8021B)
MESW 1	Soil	11/5/2019	8:00	2'	1/NO	x	x	x
MESW 2	Soil	11/5/2019	8:05	2'	1/NO	x	x	x
MESW 3	Soil	11/5/2019	8:10	2'	1/NO	x	x	x
MESW 4	Soil	11/5/2019	8:15	2'	1/NO	x	x	x
MESW 5	Soil	11/5/2019	8:20	2'	1/NO	x	x	x
MESW 6	Soil	11/5/2019	9:00	2'	1/NO	x	x	x
MESW 7	Soil	11/5/2019	9:05	2'	1/NO	x	x	x
MESW 8	Soil	11/5/2019	9:10	2'	1/NO	x	x	x
MESW 9	Soil	11/5/2019	9:15	2'	1/NO	x	x	x
MESW 10	Soil	11/5/2019	9:20	2'	1/NO	x	x	x

Preservative Codes

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

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		Jessica Fuentes	11-5-19 424	2 Jessica Fuentes		11/5/19 1105
3				4		
5				6		

Revised Date 101419 Rev. 2019.1

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 64 of 67
Released to Imaging: 8/2/2021 4:21:03 PM

Page 242 of 650

Chain of Custody

Work Order No: 642208

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, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701
Atlanta, GA (770) 449-8800
www.xenco.com

Project Manager:	Daniel Dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	Chevron Environmental Management
Address:	P.O. Box 301	Address:	1500 Louisiana St Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	(575) 396-2378	Email:	danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:	11130	Routine: ☐	
Project Location	Rural Lea	Rush: ☐	
Sampler's Name:	Matthew Grieco	Due Date:	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0-5	Thermometer ID	D8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:		
Sample Custody Seals:	Yes (No) N/A	Total Containers:		

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride	TPH (8015M)	BTEX (8021B)	Sample Comments
MESW 21	Soil	11/5/2019	13:30	2'	1/NO	x	x	x	
MESW 22	Soil	11/5/2019	13:40	2'	1/NO	x	x	x	
MESW 23	Soil	11/5/2019	13:50	2'	1/NO	x	x	x	
MESW 24	Soil	11/5/2019	14:00	2'	1/NO	x	x	x	

Preservative Codes

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

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			11-5-19 424	2		11/6/19
3				4		1105
5				6		

Revised Date101419 Rev. 2019.1

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 65 of 67
Released to Imaging: 8/2/2021 4:21:03 PM



ORIGIN ID:HOBA (575) 392-7550
**
MAIL SERVICES ETC, LLC
4008 N GRIMES

HOBBS, NM 88240
UNITED STATES US

SHIP DATE: 05NOV19
ACTWGT: 42.00 LB MAN
CAD: 0909328/CAFE3211
DIMS: 26x15x15 IN

BILL RECIPIENT

XENCO LABORATORIES HOLD FOR PICK UP
FEDEX EXPRESS SHIP CENTER
FEDEX EXPRESS SHIP CENTER
3600 COUNTY ROAD 1276 SOUTH

MIDLAND TX 79711

(432) 563-1800 REF:
INV:
PO: DEPT:

551C1/F330/104C

FedEx Express

D811180605O1uv

TRK# 0201 4705 2522 1167

WED - 06 NOV HOLD
PRIORITY OVERNIGHT
HLD

41 MAFA

MAFA
TX-US LBB

44-404 BILL EXP 9/20

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 11/06/2019 11:05:00 AM

Work Order #: 642208

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

Temperature Measuring device used : R8

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11/06/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11/06/2019

Jessica Kramer

Analytical Report 642864

for

Etech Environmental & Safety Solution, Inc

Project Manager: Daniel Dominguez

CVU #47H

11130

13-NOV-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

13-NOV-19

Project Manager: **Daniel Dominguez**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **642864**
CVU #47H
Project Address: Rural Lea

Daniel Dominguez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 642864. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 642864 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Sample Cross Reference 642864

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MESW 5b	S	11-11-19 09:25	2 ft	642864-001
MESW 7b	S	11-11-19 09:35	2 ft	642864-002
MESW 11b	S	11-11-19 09:55	2 ft	642864-003
MESW 25	S	11-11-19 13:10	2 ft	642864-004

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: CVU #47H

Project ID: *11130*
Work Order Number(s): *642864*

Report Date: *13-NOV-19*
Date Received: *11/12/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3107244 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.
Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.
Samples affected are: 642864-001,642864-004,642864-003,642864-002.

Due to matrix, initial run for samples 001, 002, 003 & 004 was performed at a 10X dilution.

Certificate of Analytical Results
642864

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **MESW 5b** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 642864-001 Date Collected: 11.11.19 09.25 Date Received: 11.12.19 11.24

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3107231 Date Prep: 11.12.19 11.45

Prep seq: 7690133

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**310**	5.00	0.858	mg/kg	11.12.19 14:29		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107272 Date Prep: 11.12.19 14.00

Prep seq: 7690152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.12.19 21:19	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.12.19 21:19	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.12.19 21:19	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.12.19 21:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	97	70 - 135	%		
o-Terphenyl	97	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107244 Date Prep: 11.12.19 14.00

Prep seq: 7690150

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	**0.0819**	0.0200	0.00384	mg/kg	11.12.19 17:14		10
Toluene	108-88-3	<0.0200	0.0200	0.00455	mg/kg	11.12.19 17:14	U	10
Ethylbenzene	100-41-4	<0.0200	0.0200	0.00564	mg/kg	11.12.19 17:14	U	10
m,p-Xylenes	179601-23-1	<0.0399	0.0399	0.0101	mg/kg	11.12.19 17:14	U	10
o-Xylene	95-47-6	<0.0200	0.0200	0.00344	mg/kg	11.12.19 17:14	U	10
Total Xylenes	1330-20-7	<0.0200		0.00344	mg/kg	11.12.19 17:14	U	
Total BTEX		**0.0819**		0.00344	mg/kg	11.12.19 17:14		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	120	70 - 130	%		
4-Bromofluorobenzene	144	70 - 130	%		**

Certificate of Analytical Results
642864

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **MESW 7b** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 642864-002 Date Collected: 11.11.19 09.35 Date Received: 11.12.19 11.24

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3107231 Date Prep: 11.12.19 11.45

Prep seq: 7690133

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**181**	5.00	0.858	mg/kg	11.12.19 14:35		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107272 Date Prep: 11.12.19 14.00

Prep seq: 7690152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.12.19 22:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.12.19 22:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.12.19 22:15	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.12.19 22:15	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	97	70 - 135	%		
o-Terphenyl	94	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107244 Date Prep: 11.12.19 14.00

Prep seq: 7690150

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	**0.103**	0.0198	0.00382	mg/kg	11.12.19 17:35		10
Toluene	108-88-3	<0.0198	0.0198	0.00452	mg/kg	11.12.19 17:35	U	10
Ethylbenzene	100-41-4	<0.0198	0.0198	0.00560	mg/kg	11.12.19 17:35	U	10
m,p-Xylenes	179601-23-1	<0.0397	0.0397	0.0101	mg/kg	11.12.19 17:35	U	10
o-Xylene	95-47-6	<0.0198	0.0198	0.00342	mg/kg	11.12.19 17:35	U	10
Total Xylenes	1330-20-7	<0.0198		0.00342	mg/kg	11.12.19 17:35	U	
Total BTEX		**0.103**		0.00342	mg/kg	11.12.19 17:35		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	125	70 - 130	%		
4-Bromofluorobenzene	158	70 - 130	%		**

Certificate of Analytical Results
642864

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **MESW 11b** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 642864-003 Date Collected: 11.11.19 09.55 Date Received: 11.12.19 11.24

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3107231 Date Prep: 11.12.19 11.45

Prep seq: 7690133

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**563**	5.03	0.864	mg/kg	11.12.19 14:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107272 Date Prep: 11.12.19 14.00

Prep seq: 7690152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.12.19 22:34	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.12.19 22:34	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.12.19 22:34	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.12.19 22:34	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	95	70 - 135	%		
o-Terphenyl	92	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107244 Date Prep: 11.12.19 14.00

Prep seq: 7690150

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	**0.0700**	0.0200	0.00385	mg/kg	11.12.19 17:55		10
Toluene	108-88-3	**0.0319**	0.0200	0.00456	mg/kg	11.12.19 17:55		10
Ethylbenzene	100-41-4	**0.0268**	0.0200	0.00565	mg/kg	11.12.19 17:55		10
m,p-Xylenes	179601-23-1	<0.0400	0.0400	0.0101	mg/kg	11.12.19 17:55	U	10
o-Xylene	95-47-6	**0.0276**	0.0200	0.00344	mg/kg	11.12.19 17:55		10
Total Xylenes	1330-20-7	**0.0276**		0.00344	mg/kg	11.12.19 17:55		
Total BTEX		**0.156**		0.00344	mg/kg	11.12.19 17:55		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	126	70 - 130	%		
4-Bromofluorobenzene	158	70 - 130	%		**

Certificate of Analytical Results
642864

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **MESW 25** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 642864-004 Date Collected: 11.11.19 13.10 Date Received: 11.12.19 11.24

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3107231 Date Prep: 11.12.19 11.45

Prep seq: 7690133

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**541**	4.98	0.855	mg/kg	11.12.19 14:48		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107272 Date Prep: 11.12.19 14.00

Prep seq: 7690152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.12.19 22:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.12.19 22:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.12.19 22:53	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.12.19 22:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	95	70 - 135	%		
o-Terphenyl	92	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107244 Date Prep: 11.12.19 14.00

Prep seq: 7690150

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	**0.0501**	0.0198	0.00381	mg/kg	11.12.19 18:15		10
Toluene	108-88-3	**0.539**	0.0198	0.00451	mg/kg	11.12.19 18:15		10
Ethylbenzene	100-41-4	**1.07**	0.0198	0.00559	mg/kg	11.12.19 18:15		10
m,p-Xylenes	179601-23-1	**1.28**	0.0396	0.0100	mg/kg	11.12.19 18:15		10
o-Xylene	95-47-6	**0.546**	0.0198	0.00341	mg/kg	11.12.19 18:15		10
Total Xylenes	1330-20-7	**1.83**		0.00341	mg/kg	11.12.19 18:15		
Total BTEX		**3.49**		0.00341	mg/kg	11.12.19 18:15		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	126	70 - 130	%		
4-Bromofluorobenzene	173	70 - 130	%		**

Certificate of Analytical Results
642864

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **7690133-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7690133-1-BLK Date Collected: Date Received:

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3107231 Date Prep: 11.12.19 11.45

Prep seq: 7690133

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	11.12.19 11:49	U	1

Sample Id: **7690150-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7690150-1-BLK Date Collected: Date Received:

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107244 Date Prep: 11.12.19 14.00

Prep seq: 7690150

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000385	mg/kg	11.12.19 16:54	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000456	mg/kg	11.12.19 16:54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000565	mg/kg	11.12.19 16:54	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	0.00101	mg/kg	11.12.19 16:54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	11.12.19 16:54	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	111	70 - 130	%		
4-Bromofluorobenzene	90	70 - 130	%		

Certificate of Analytical Results
642864

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **7690152-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7690152-1-BLK Date Collected: Date Received:

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107272 Date Prep: 11.12.19 14.00

Prep seq: 7690152

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.12.19 20:22	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.12.19 20:22	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.12.19 20:22	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	101	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

Form 2 - Surrogate Recoveries

Project Name: CVU #47H

Work Orders : 642864,

Project ID: 11130

Lab Batch #: 3107244 **Sample:** 7690150-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/12/19 15:07

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0336	0.0300	112	70-130	
4-Bromofluorobenzene	0.0302	0.0300	101	70-130	

Lab Batch #: 3107244 **Sample:** 7690150-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/12/19 15:28

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0338	0.0300	113	70-130	
4-Bromofluorobenzene	0.0316	0.0300	105	70-130	

Lab Batch #: 3107244 **Sample:** 642642-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/12/19 15:48

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0348	0.0300	116	70-130	
4-Bromofluorobenzene	0.0319	0.0300	106	70-130	

Lab Batch #: 3107244 **Sample:** 642642-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/12/19 16:08

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0346	0.0300	115	70-130	
4-Bromofluorobenzene	0.0318	0.0300	106	70-130	

Lab Batch #: 3107244 **Sample:** 7690150-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/12/19 16:54

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0334	0.0300	111	70-130	
4-Bromofluorobenzene	0.0271	0.0300	90	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Version: 1.%

Form 2 - Surrogate Recoveries

Project Name: CVU #47H

Work Orders : 642864,

Project ID: 11130

Lab Batch #: 3107272 **Sample:** 7690152-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/12/19 20:22

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	100	101	70-135	
o-Terphenyl	50.6	50.0	101	70-135	

Lab Batch #: 3107272 **Sample:** 7690152-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/12/19 20:41

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	128	100	128	70-135	
o-Terphenyl	56.1	50.0	112	70-135	

Lab Batch #: 3107272 **Sample:** 7690152-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/12/19 21:00

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	54.5	50.0	109	70-135	

Lab Batch #: 3107272 **Sample:** 642864-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/12/19 21:38

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	99.9	117	70-135	
o-Terphenyl	51.4	50.0	103	70-135	

Lab Batch #: 3107272 **Sample:** 642864-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/12/19 21:56

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	99.6	121	70-135	
o-Terphenyl	49.9	49.8	100	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Version: 1.%

BS / BSD Recoveries

Project Name: CVU #47H

Work Order #: 642864 **Project ID:** 11130

Analyst: KTL **Date Prepared:** 11/12/2019 **Date Analyzed:** 11/12/2019

Lab Batch ID: 3107244 **Sample:** 7690150-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.114	114	0.100	0.118	118	3	70-130	35	
Toluene	<0.00200	0.100	0.104	104	0.100	0.109	109	5	70-130	35	
Ethylbenzene	<0.00200	0.100	0.106	106	0.100	0.111	111	5	70-130	35	
m,p-Xylenes	<0.00400	0.200	0.216	108	0.200	0.228	114	5	70-130	35	
o-Xylene	<0.00200	0.100	0.107	107	0.100	0.113	113	5	70-130	35	

Analyst: CHE **Date Prepared:** 11/12/2019 **Date Analyzed:** 11/12/2019

Lab Batch ID: 3107231 **Sample:** 7690133-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.858	250	246	98	250	245	98	0	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Version: 1.%

BS / BSD Recoveries

Project Name: CVU #47H

Work Order #: 642864 **Project ID:** 11130

Analyst: ARM **Date Prepared:** 11/12/2019 **Date Analyzed:** 11/12/2019

Lab Batch ID: 3107272 **Sample:** 7690152-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1100	110	1000	1060	106	4	70-135	20	
Diesel Range Organics (DRO)	<15.0	1000	1070	107	1000	1030	103	4	70-135	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Version: 1.%

Form 3 - MS / MSD Recoveries

Project Name: CVU #47H

Work Order # : 642864 **Project ID:** 11130

Lab Batch ID: 3107244 **QC- Sample ID:** 642642-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/12/2019 **Date Prepared:** 11/12/2019 **Analyst:** KTL

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00199	0.0994	0.108	109	0.101	0.106	105	2	70-130	35	
Toluene	<0.00199	0.0994	0.0994	100	0.101	0.0963	95	3	70-130	35	
Ethylbenzene	<0.00199	0.0994	0.100	101	0.101	0.0965	96	4	70-130	35	
m,p-Xylenes	<0.00398	0.199	0.205	103	0.202	0.196	97	4	70-130	35	
o-Xylene	<0.00199	0.0994	0.102	103	0.101	0.0983	97	4	70-130	35	

Lab Batch ID: 3107231 **QC- Sample ID:** 642398-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/12/2019 **Date Prepared:** 11/12/2019 **Analyst:** CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	1000	248	1230	93	248	1220	89	1	90-110	20	X

Lab Batch ID: 3107231 **QC- Sample ID:** 642771-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/12/2019 **Date Prepared:** 11/12/2019 **Analyst:** CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	661	250	850	76	250	877	86	3	90-110	20	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: CVU #47H

Work Order # : 642864 **Project ID:** 11130

Lab Batch ID: 3107272 **QC- Sample ID:** 642864-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/12/2019 **Date Prepared:** 11/12/2019 **Analyst:** ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	1130	113	996	1140	114	1	70-135	20	
Diesel Range Organics (DRO)	<15.0	999	990	99	996	1000	100	1	70-135	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 262 of 650

Chain of Custody

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

Work Order No: 04-28464

www.xenco.com Page 1 of 1

Project Manager:	Daniel Dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	Chevron Environmental Management
Address:	P.O. Box 301	Address:	1500 Louisiana St Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	(575) 396-2378	Email:	danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:	11130	Routine:	☐
Project Location	Rural Lea	Rush:	[x]
Sampler's Name:	Catalina Villa	Due Date:	ASAP
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.7 / 0.5	Thermometer ID	B8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2	
Sample Custody Seals:	Yes (No) N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	Chloride	TPH (8015M)	BTEX (8021B)
MESW 5b	Soil	11/11/2019	9:25	2'	1/NO	x	x	x
MESW 7b	Soil	11/11/2019	9:35	2'	1/NO	x	x	x
MESW 11b	Soil	11/11/2019	9:55	2'	1/NO	x	x	x
MESW 25	Soil	11/11/2019	13:10	2'	1/NO	x	x	x

Preservative Codes

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

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	Stephanie Tejas	11/11/19 4:17	2	Stephanie Tejas	11/11/19 4:29
3			4		11:23
5			6		11/12/19

Revised Date 101419 Rev. 2019.1

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 18 of 19
Released to Imaging: 8/2/2021 4:21:03 PM

FedEx
4705 2522 1524
41 MAFA
TUE - 12 NOV HOLD
STANDARD OVERNIGHT
LBB
TX-US
FedEx Express
ORIGIN ID:HOBA (575) 392-7550
MRIL SERVICES ETC, LLC
4008 N GRIMES
HOBBS, NM 88240
UNITED STATES US
TO XENCO LABORATORIES HOLD FOR PICK UP
FEDEX EXPRESS SHIP CENTER
FEDEX SHIP CENTER
3600 COUNTY RD 1276 S
MIDLAND TX 79711
(432) 563-1800
BILL RECIPIENT
SHIP DATE: 11NOV19
ACTWGT: 6.00 LB MAN
CAD: 9090328/CAFE3211
DIMS: 15X11X8 IN
P/P
000000230900118
HAL
12.00
1524
11.12

Analytical Report 643007

for

Etech Environmental & Safety Solution, Inc

Project Manager: Daniel Dominguez

CVU #47H

14-NOV-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

14-NOV-19

Project Manager: **Daniel Dominguez**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **643007**
CVU #47H
Project Address:

Daniel Dominguez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 643007. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 643007 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Sample Cross Reference 643007

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
NW1b	S	11-12-19 12:00	2	643007-001
EW1b	S	11-12-19 12:05	2	643007-002
EW2b	S	11-12-19 12:10	1.5	643007-003
EW3b	S	11-12-19 12:15	1.5	643007-004
EW4b	S	11-12-19 12:20	1	643007-005
SW1b	S	11-12-19 12:25	1	643007-006
WW1	S	11-12-19 12:30	2	643007-007
WW2	S	11-12-19 12:35	2	643007-008
WW3b	S	11-12-19 12:40	2	643007-009
WW4b	S	11-12-19 12:45	2	643007-010
Floor1d	S	11-12-19 12:50	4	643007-011
Floor2c	S	11-12-19 12:55	3.5	643007-012
Floor3c	S	11-12-19 13:00	3.5	643007-013
Floor4d	S	11-12-19 13:05	4	643007-014
Floor5c	S	11-12-19 13:10	3.5	643007-015
Floor6c	S	11-12-19 13:15	3.5	643007-016
Floor7b	S	11-12-19 13:20	3	643007-017
Floor8b	S	11-12-19 13:25	3	643007-018
Floor9b	S	11-12-19 13:30	3	643007-019

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: CVU #47H

Project ID:
Work Order Number(s): *643007*

Report Date: *14-NOV-19*
Date Received: *11/13/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3107435 BTEX by EPA 8021B

Lab Sample ID 643007-001 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 643007-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019.

The Laboratory Control Sample for Toluene, m,p-Xylenes, Ethylbenzene, o-Xylene is within laboratory Control Limits, therefore the data was accepted.

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

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **NW1b** Matrix: Soil Sample Depth: 2

Lab Sample Id: 643007-001 Date Collected: 11.12.19 12.00 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.13.19 18:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.13.19 18:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.13.19 18:03	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.13.19 18:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00201	0.00201	0.000387	mg/kg	11.13.19 16:18	U	1
Toluene	108-88-3	**0.00434**	0.00201	0.000458	mg/kg	11.13.19 16:18		1
Ethylbenzene	100-41-4	<0.00201	0.00201	0.000568	mg/kg	11.13.19 16:18	U	1
m,p-Xylenes	179601-23-1	**0.0101**	0.00402	0.00102	mg/kg	11.13.19 16:18		1
o-Xylene	95-47-6	**0.00389**	0.00201	0.000346	mg/kg	11.13.19 16:18		1
Total Xylenes	1330-20-7	**0.0140**		0.000346	mg/kg	11.13.19 16:18		
Total BTEX		**0.0183**		0.000346	mg/kg	11.13.19 16:18		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	115	70 - 130	%		
4-Bromofluorobenzene	111	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **EW1b** Matrix: Soil Sample Depth: 2

Lab Sample Id: 643007-002 Date Collected: 11.12.19 12.05 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.13.19 19:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.13.19 19:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.13.19 19:06	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.13.19 19:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	96	70 - 135	%		
o-Terphenyl	90	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000386	mg/kg	11.13.19 16:38	U	1
Toluene	108-88-3	**0.00346**	0.00200	0.000457	mg/kg	11.13.19 16:38		1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000566	mg/kg	11.13.19 16:38	U	1
m,p-Xylenes	179601-23-1	**0.00816**	0.00401	0.00102	mg/kg	11.13.19 16:38		1
o-Xylene	95-47-6	**0.00231**	0.00200	0.000345	mg/kg	11.13.19 16:38		1
Total Xylenes	1330-20-7	**0.0105**		0.000345	mg/kg	11.13.19 16:38		
Total BTEX		**0.0139**		0.000345	mg/kg	11.13.19 16:38		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	70 - 130	%		
4-Bromofluorobenzene	117	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **EW2b** Matrix: Soil Sample Depth: 1.5

Lab Sample Id: 643007-003 Date Collected: 11.12.19 12.10 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	11.13.19 19:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	11.13.19 19:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	11.13.19 19:27	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	11.13.19 19:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	96	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00199	0.00199	0.000383	mg/kg	11.13.19 16:58	U	1
Toluene	108-88-3	<0.00199	0.00199	0.000454	mg/kg	11.13.19 16:58	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	0.000563	mg/kg	11.13.19 16:58	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	0.00101	mg/kg	11.13.19 16:58	U	1
o-Xylene	95-47-6	<0.00199	0.00199	0.000343	mg/kg	11.13.19 16:58	U	1
Total Xylenes	1330-20-7	<0.00199		0.000343	mg/kg	11.13.19 16:58	U	
Total BTEX		<0.00199		0.000343	mg/kg	11.13.19 16:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	110	70 - 130	%		
4-Bromofluorobenzene	99	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **EW3b** Matrix: Soil Sample Depth: 1.5

Lab Sample Id: 643007-004 Date Collected: 11.12.19 12.15 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.13.19 19:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.13.19 19:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.13.19 19:47	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.13.19 19:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	93	70 - 135	%		
o-Terphenyl	89	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000385	mg/kg	11.13.19 17:18	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000456	mg/kg	11.13.19 17:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000565	mg/kg	11.13.19 17:18	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	0.00101	mg/kg	11.13.19 17:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	11.13.19 17:18	U	1
Total Xylenes	1330-20-7	<0.00200		0.000344	mg/kg	11.13.19 17:18	U	
Total BTEX		<0.00200		0.000344	mg/kg	11.13.19 17:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	115	70 - 130	%		
4-Bromofluorobenzene	109	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **EW4b** Matrix: Soil Sample Depth: 1

Lab Sample Id: 643007-005 Date Collected: 11.12.19 12.20 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.13.19 20:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.13.19 20:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.13.19 20:09	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.13.19 20:09	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	92	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00201	0.00201	0.000387	mg/kg	11.13.19 17:38	U	1
Toluene	108-88-3	<0.00201	0.00201	0.000458	mg/kg	11.13.19 17:38	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	0.000568	mg/kg	11.13.19 17:38	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	0.00102	mg/kg	11.13.19 17:38	U	1
o-Xylene	95-47-6	<0.00201	0.00201	0.000346	mg/kg	11.13.19 17:38	U	1
Total Xylenes	1330-20-7	<0.00201		0.000346	mg/kg	11.13.19 17:38	U	
Total BTEX		<0.00201		0.000346	mg/kg	11.13.19 17:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	112	70 - 130	%		
4-Bromofluorobenzene	101	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **SW1b** Matrix: Soil Sample Depth: 1

Lab Sample Id: 643007-006 Date Collected: 11.12.19 12.25 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.13.19 20:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.13.19 20:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.13.19 20:30	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.13.19 20:30	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	97	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00201	0.00201	0.000386	mg/kg	11.13.19 17:59	U	1
Toluene	108-88-3	<0.00201	0.00201	0.000457	mg/kg	11.13.19 17:59	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	0.000567	mg/kg	11.13.19 17:59	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	0.00102	mg/kg	11.13.19 17:59	U	1
o-Xylene	95-47-6	<0.00201	0.00201	0.000346	mg/kg	11.13.19 17:59	U	1
Total Xylenes	1330-20-7	<0.00201		0.000346	mg/kg	11.13.19 17:59	U	
Total BTEX		<0.00201		0.000346	mg/kg	11.13.19 17:59	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	113	70 - 130	%		
4-Bromofluorobenzene	103	70 - 130	%		

Certificate of Analytical Results

643007

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **WW1** Matrix: Soil Sample Depth: 2

Lab Sample Id: 643007-007 Date Collected: 11.12.19 12.30 Date Received: 11.13.19 11.35

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3107408 Date Prep: 11.13.19 16.30

Prep seq: 7690275

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**47.5**	25.3	4.34	mg/kg	11.13.19 19:48		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	11.13.19 20:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	11.13.19 20:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	11.13.19 20:50	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	11.13.19 20:50	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00201	0.00201	0.000386	mg/kg	11.13.19 18:19	U	1
Toluene	108-88-3	<0.00201	0.00201	0.000457	mg/kg	11.13.19 18:19	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	0.000567	mg/kg	11.13.19 18:19	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	0.00102	mg/kg	11.13.19 18:19	U	1
o-Xylene	95-47-6	<0.00201	0.00201	0.000346	mg/kg	11.13.19 18:19	U	1
Total Xylenes	1330-20-7	<0.00201		0.000346	mg/kg	11.13.19 18:19	U	
Total BTEX		<0.00201		0.000346	mg/kg	11.13.19 18:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	116	70 - 130	%		
4-Bromofluorobenzene	101	70 - 130	%		

Certificate of Analytical Results

643007

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **WW2** Matrix: Soil Sample Depth: 2

Lab Sample Id: 643007-008 Date Collected: 11.12.19 12.35 Date Received: 11.13.19 11.35

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3107408 Date Prep: 11.13.19 16.30

Prep seq: 7690275

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**97.1**	25.3	4.34	mg/kg	11.13.19 20:07		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.13.19 21:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.13.19 21:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.13.19 21:11	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.13.19 21:11	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	94	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00202	0.00202	0.000389	mg/kg	11.13.19 18:39	U	1
Toluene	108-88-3	<0.00202	0.00202	0.000460	mg/kg	11.13.19 18:39	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	0.000570	mg/kg	11.13.19 18:39	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	0.00102	mg/kg	11.13.19 18:39	U	1
o-Xylene	95-47-6	<0.00202	0.00202	0.000348	mg/kg	11.13.19 18:39	U	1
Total Xylenes	1330-20-7	<0.00202		0.000348	mg/kg	11.13.19 18:39	U	
Total BTEX		<0.00202		0.000348	mg/kg	11.13.19 18:39	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	114	70 - 130	%		
4-Bromofluorobenzene	105	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WW3b** Matrix: Soil Sample Depth: 2

Lab Sample Id: 643007-009 Date Collected: 11.12.19 12.40 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.13.19 21:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.13.19 21:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.13.19 21:32	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.13.19 21:32	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	97	70 - 135	%		
o-Terphenyl	90	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00198	0.00198	0.000382	mg/kg	11.13.19 18:59	U	1
Toluene	108-88-3	<0.00198	0.00198	0.000452	mg/kg	11.13.19 18:59	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	0.000560	mg/kg	11.13.19 18:59	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	0.00101	mg/kg	11.13.19 18:59	U	1
o-Xylene	95-47-6	**0.00201**	0.00198	0.000342	mg/kg	11.13.19 18:59		1
Total Xylenes	1330-20-7	**0.00201**		0.000342	mg/kg	11.13.19 18:59		
Total BTEX		**0.00201**		0.000342	mg/kg	11.13.19 18:59		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	115	70 - 130	%		
4-Bromofluorobenzene	104	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WW4b** Matrix: Soil Sample Depth: 2

Lab Sample Id: 643007-010 Date Collected: 11.12.19 12.45 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.13.19 21:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.13.19 21:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.13.19 21:53	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.13.19 21:53	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	98	70 - 135	%		
o-Terphenyl	92	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00198	0.00198	0.000381	mg/kg	11.13.19 19:19	U	1
Toluene	108-88-3	<0.00198	0.00198	0.000451	mg/kg	11.13.19 19:19	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	0.000559	mg/kg	11.13.19 19:19	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	0.00100	mg/kg	11.13.19 19:19	U	1
o-Xylene	95-47-6	<0.00198	0.00198	0.000341	mg/kg	11.13.19 19:19	U	1
Total Xylenes	1330-20-7	<0.00198		0.000341	mg/kg	11.13.19 19:19	U	
Total BTEX		<0.00198		0.000341	mg/kg	11.13.19 19:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	116	70 - 130	%		
4-Bromofluorobenzene	102	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Floor1d** Matrix: Soil Sample Depth: 4

Lab Sample Id: 643007-011 Date Collected: 11.12.19 12.50 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	11.13.19 22:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	11.13.19 22:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	11.13.19 22:36	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	11.13.19 22:36	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	96	70 - 135	%		
o-Terphenyl	91	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00201	0.00201	0.000386	mg/kg	11.13.19 20:38	U	1
Toluene	108-88-3	<0.00201	0.00201	0.000457	mg/kg	11.13.19 20:38	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	0.000567	mg/kg	11.13.19 20:38	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	0.00102	mg/kg	11.13.19 20:38	U	1
o-Xylene	95-47-6	<0.00201	0.00201	0.000346	mg/kg	11.13.19 20:38	U	1
Total Xylenes	1330-20-7	<0.00201		0.000346	mg/kg	11.13.19 20:38	U	
Total BTEX		<0.00201		0.000346	mg/kg	11.13.19 20:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	112	70 - 130	%		
4-Bromofluorobenzene	95	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Floor2c** Matrix: Soil Sample Depth: 3.5

Lab Sample Id: 643007-012 Date Collected: 11.12.19 12.55 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.13.19 22:57	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.13.19 22:57	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.13.19 22:57	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.13.19 22:57	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	96	70 - 135	%		
o-Terphenyl	90	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00199	0.00199	0.000383	mg/kg	11.13.19 20:58	U	1
Toluene	108-88-3	<0.00199	0.00199	0.000453	mg/kg	11.13.19 20:58	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	0.000561	mg/kg	11.13.19 20:58	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	0.00101	mg/kg	11.13.19 20:58	U	1
o-Xylene	95-47-6	<0.00199	0.00199	0.000342	mg/kg	11.13.19 20:58	U	1
Total Xylenes	1330-20-7	<0.00199		0.000342	mg/kg	11.13.19 20:58	U	
Total BTEX		<0.00199		0.000342	mg/kg	11.13.19 20:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	114	70 - 130	%		
4-Bromofluorobenzene	99	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Floor3c** Matrix: Soil Sample Depth: 3.5

Lab Sample Id: 643007-013 Date Collected: 11.12.19 13.00 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.13.19 23:18	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.13.19 23:18	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.13.19 23:18	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.13.19 23:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	122	70 - 135	%		
o-Terphenyl	110	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000385	mg/kg	11.13.19 21:18	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000456	mg/kg	11.13.19 21:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000565	mg/kg	11.13.19 21:18	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	0.00101	mg/kg	11.13.19 21:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	11.13.19 21:18	U	1
Total Xylenes	1330-20-7	<0.00200		0.000344	mg/kg	11.13.19 21:18	U	
Total BTEX		<0.00200		0.000344	mg/kg	11.13.19 21:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	110	70 - 130	%		
4-Bromofluorobenzene	98	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Floor4d** Matrix: Soil Sample Depth: 4

Lab Sample Id: 643007-014 Date Collected: 11.12.19 13.05 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.13.19 23:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.13.19 23:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.13.19 23:39	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.13.19 23:39	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	117	70 - 135	%		
o-Terphenyl	110	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00201	0.00201	0.000387	mg/kg	11.13.19 21:38	U	1
Toluene	108-88-3	<0.00201	0.00201	0.000458	mg/kg	11.13.19 21:38	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	0.000568	mg/kg	11.13.19 21:38	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	0.00102	mg/kg	11.13.19 21:38	U	1
o-Xylene	95-47-6	<0.00201	0.00201	0.000346	mg/kg	11.13.19 21:38	U	1
Total Xylenes	1330-20-7	<0.00201		0.000346	mg/kg	11.13.19 21:38	U	
Total BTEX		<0.00201		0.000346	mg/kg	11.13.19 21:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	113	70 - 130	%		
4-Bromofluorobenzene	104	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Floor5c** Matrix: Soil Sample Depth: 3.5

Lab Sample Id: 643007-015 Date Collected: 11.12.19 13.10 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.14.19 00:00	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.14.19 00:00	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.14.19 00:00	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.14.19 00:00	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	104	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00199	0.00199	0.000383	mg/kg	11.13.19 21:58	U	1
Toluene	108-88-3	<0.00199	0.00199	0.000453	mg/kg	11.13.19 21:58	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	0.000561	mg/kg	11.13.19 21:58	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	0.00101	mg/kg	11.13.19 21:58	U	1
o-Xylene	95-47-6	<0.00199	0.00199	0.000342	mg/kg	11.13.19 21:58	U	1
Total Xylenes	1330-20-7	<0.00199		0.000342	mg/kg	11.13.19 21:58	U	
Total BTEX		<0.00199		0.000342	mg/kg	11.13.19 21:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	113	70 - 130	%		
4-Bromofluorobenzene	101	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Floor6c** Matrix: Soil Sample Depth: 3.5

Lab Sample Id: 643007-016 Date Collected: 11.12.19 13.15 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.14.19 00:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	**2900**	50.0	15.0	mg/kg	11.14.19 00:21		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**1180**	50.0	15.0	mg/kg	11.14.19 00:21		1
Total TPH	PHC635	**4080**		15.0	mg/kg	11.14.19 00:21		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	129	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000386	mg/kg	11.13.19 22:18	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000457	mg/kg	11.13.19 22:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000566	mg/kg	11.13.19 22:18	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	0.00102	mg/kg	11.13.19 22:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000345	mg/kg	11.13.19 22:18	U	1
Total Xylenes	1330-20-7	<0.00200		0.000345	mg/kg	11.13.19 22:18	U	
Total BTEX		<0.00200		0.000345	mg/kg	11.13.19 22:18	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	113	70 - 130	%		
4-Bromofluorobenzene	101	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Floor7b** Matrix: Soil Sample Depth: 3

Lab Sample Id: 643007-017 Date Collected: 11.12.19 13.20 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.14.19 00:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	**180**	50.0	15.0	mg/kg	11.14.19 00:42		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	**84.9**	50.0	15.0	mg/kg	11.14.19 00:42		1
Total TPH	PHC635	**265**		15.0	mg/kg	11.14.19 00:42		

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	119	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00202	0.00202	0.000388	mg/kg	11.13.19 22:38	U	1
Toluene	108-88-3	<0.00202	0.00202	0.000459	mg/kg	11.13.19 22:38	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	0.000569	mg/kg	11.13.19 22:38	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	0.00102	mg/kg	11.13.19 22:38	U	1
o-Xylene	95-47-6	<0.00202	0.00202	0.000347	mg/kg	11.13.19 22:38	U	1
Total Xylenes	1330-20-7	<0.00202		0.000347	mg/kg	11.13.19 22:38	U	
Total BTEX		<0.00202		0.000347	mg/kg	11.13.19 22:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	110	70 - 130	%		
4-Bromofluorobenzene	99	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Floor8b** Matrix: Soil Sample Depth: 3

Lab Sample Id: 643007-018 Date Collected: 11.12.19 13.25 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	11.14.19 01:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	11.14.19 01:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	11.14.19 01:02	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	11.14.19 01:02	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	119	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000384	mg/kg	11.13.19 22:58	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000455	mg/kg	11.13.19 22:58	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000564	mg/kg	11.13.19 22:58	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	0.00101	mg/kg	11.13.19 22:58	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	11.13.19 22:58	U	1
Total Xylenes	1330-20-7	<0.00200		0.000344	mg/kg	11.13.19 22:58	U	
Total BTEX		<0.00200		0.000344	mg/kg	11.13.19 22:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	108	70 - 130	%		
4-Bromofluorobenzene	102	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **Floor9b** Matrix: Soil Sample Depth: 3

Lab Sample Id: 643007-019 Date Collected: 11.12.19 13.30 Date Received: 11.13.19 11.35

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.14.19 01:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.14.19 01:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.14.19 01:23	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.14.19 01:23	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	117	70 - 135	%		
o-Terphenyl	107	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000384	mg/kg	11.13.19 23:19	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000455	mg/kg	11.13.19 23:19	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000564	mg/kg	11.13.19 23:19	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	0.00101	mg/kg	11.13.19 23:19	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	11.13.19 23:19	U	1
Total Xylenes	1330-20-7	<0.00200		0.000344	mg/kg	11.13.19 23:19	U	
Total BTEX		<0.00200		0.000344	mg/kg	11.13.19 23:19	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	110	70 - 130	%		
4-Bromofluorobenzene	100	70 - 130	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **7690241-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7690241-1-BLK Date Collected: Date Received:

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: KTL % Moist: Tech: KTL

Seq Number: 3107435 Date Prep: 11.13.19 13.30

Prep seq: 7690241

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000385	mg/kg	11.13.19 14:56	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000456	mg/kg	11.13.19 14:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000565	mg/kg	11.13.19 14:56	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	0.00101	mg/kg	11.13.19 14:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000344	mg/kg	11.13.19 14:56	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	112	70 - 130	%		
4-Bromofluorobenzene	91	70 - 130	%		

Sample Id: **7690248-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7690248-1-BLK Date Collected: Date Received:

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107397 Date Prep: 11.13.19 14.00

Prep seq: 7690248

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.13.19 17:01	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.13.19 17:01	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.13.19 17:01	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	90	70 - 135	%		
o-Terphenyl	87	70 - 135	%		

Certificate of Analytical Results
643007

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **7690275-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7690275-1-BLK Date Collected: Date Received:

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: CHE % Moist: Tech: CHE

Seq Number: 3107408 Date Prep: 11.13.19 16.30

Prep seq: 7690275

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	11.13.19 18:48	U	1

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

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

Form 2 - Surrogate Recoveries

Project Name: CVU #47H

Work Orders : 643007,

Project ID:

Lab Batch #: 3107435 **Sample:** 7690241-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/13/19 13:16

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	70-130	
4-Bromofluorobenzene	0.0288	0.0300	96	70-130	

Lab Batch #: 3107435 **Sample:** 7690241-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/13/19 13:37

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0340	0.0300	113	70-130	
4-Bromofluorobenzene	0.0304	0.0300	101	70-130	

Lab Batch #: 3107435 **Sample:** 643007-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/19 13:57

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0348	0.0300	116	70-130	
4-Bromofluorobenzene	0.0294	0.0300	98	70-130	

Lab Batch #: 3107435 **Sample:** 643007-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/19 14:17

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0350	0.0300	117	70-130	
4-Bromofluorobenzene	0.0280	0.0300	93	70-130	

Lab Batch #: 3107435 **Sample:** 7690241-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/13/19 14:56

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0337	0.0300	112	70-130	
4-Bromofluorobenzene	0.0274	0.0300	91	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Form 2 - Surrogate Recoveries

Project Name: CVU #47H

Work Orders : 643007,

Project ID:

Lab Batch #: 3107397 **Sample:** 7690248-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/13/19 17:01

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	89.5	100	90	70-135	
o-Terphenyl	43.6	50.0	87	70-135	

Lab Batch #: 3107397 **Sample:** 7690248-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/13/19 17:21

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	95.4	100	95	70-135	
o-Terphenyl	40.3	50.0	81	70-135	

Lab Batch #: 3107397 **Sample:** 7690248-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/13/19 17:42

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.6	100	95	70-135	
o-Terphenyl	41.7	50.0	83	70-135	

Lab Batch #: 3107397 **Sample:** 643007-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/19 18:24

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	99.9	103	70-135	
o-Terphenyl	44.5	50.0	89	70-135	

Lab Batch #: 3107397 **Sample:** 643007-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/13/19 18:45

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	99.7	115	70-135	
o-Terphenyl	44.6	49.9	89	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: CVU #47H

Work Order #: 643007 **Project ID:**

Analyst: KTL **Date Prepared:** 11/13/2019 **Date Analyzed:** 11/13/2019

Lab Batch ID: 3107435 **Sample:** 7690241-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.105	105	0.100	0.110	110	5	70-130	35	
Toluene	<0.00200	0.100	0.0966	97	0.100	0.100	100	3	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0978	98	0.100	0.101	101	3	70-130	35	
m,p-Xylenes	<0.00400	0.200	0.198	99	0.200	0.205	103	3	70-130	35	
o-Xylene	<0.00200	0.100	0.0975	98	0.100	0.102	102	5	70-130	35	

Analyst: CHE **Date Prepared:** 11/13/2019 **Date Analyzed:** 11/13/2019

Lab Batch ID: 3107408 **Sample:** 7690275-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.858	250	248	99	250	248	99	0	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

BS / BSD Recoveries

Project Name: CVU #47H

Work Order #: 643007 **Project ID:**

Analyst: ARM **Date Prepared:** 11/13/2019 **Date Analyzed:** 11/13/2019

Lab Batch ID: 3107397 **Sample:** 7690248-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	898	90	1000	987	99	9	70-135	20	
Diesel Range Organics (DRO)	<15.0	1000	829	83	1000	900	90	8	70-135	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: CVU #47H

Work Order # : 643007 **Project ID:**

Lab Batch ID: 3107435 **QC- Sample ID:** 643007-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/13/2019 **Date Prepared:** 11/13/2019 **Analyst:** KTL

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00199	0.0996	0.0830	83	0.0994	0.0757	76	9	70-130	35	
Toluene	0.00434	0.0996	0.0546	50	0.0994	0.0476	44	14	70-130	35	X
Ethylbenzene	<0.00199	0.0996	0.0586	59	0.0994	0.0526	53	11	70-130	35	X
m,p-Xylenes	0.0101	0.199	0.113	52	0.199	0.103	47	9	70-130	35	X
o-Xylene	0.00389	0.0996	0.0676	64	0.0994	0.0633	60	7	70-130	35	X

Lab Batch ID: 3107408 **QC- Sample ID:** 642023-007 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/13/2019 **Date Prepared:** 11/13/2019 **Analyst:** CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	320	252	570	99	252	567	98	1	90-110	20	

Lab Batch ID: 3107408 **QC- Sample ID:** 642973-005 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/13/2019 **Date Prepared:** 11/13/2019 **Analyst:** CHE

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	107	396	516	103	396	516	103	0	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: CVU #47H

Work Order # : 643007 **Project ID:**

Lab Batch ID: 3107397 **QC- Sample ID:** 643007-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/13/2019 **Date Prepared:** 11/13/2019 **Analyst:** ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	15.2	999	1020	101	997	1020	101	0	70-135	20	
Diesel Range Organics (DRO)	26.2	999	924	90	997	923	90	0	70-135	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 296 of 650

Chain of Custody

Work Order No: 1043007

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 2

Project Manager:	daniel dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental	Company Name:	Chevron Environmental Management
Address:	3100 Plains Hwy	Address:	1500 Louisiana St. Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	832-854-5601	Email:	jmichelson@chevron.com; danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: yes	
Sampler's Name:	Daniel Dominguez	Due Date: 11-14-19	

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Temperature (°C):	0.5 0.3	Thermometer ID	
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes (No) N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes (No) N/A	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	BTEX	TPH
NW1b	Soil	12-Nov-19	12:00	2	1		X	X
EW1b	Soil	12-Nov-19	12:05	2	1		X	X
EW2b	Soil	12-Nov-19	12:10	1.5	1		X	X
EW3b	Soil	12-Nov-19	12:15	1.5	1		X	X
EW4b	Soil	12-Nov-19	12:20	1	1		X	X
SW1b	Soil	12-Nov-19	12:25	1	1		X	X
WW1	Soil	12-Nov-19	12:30	2	1	X	X	X
WW2	Soil	12-Nov-19	12:35	2	1	X	X	X
WW3b	Soil	12-Nov-19	12:40	2	1		X	X
WW4b	Soil	12-Nov-19	12:45	2	1		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. 1.3

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Espe Carrillo	11-12-19 4:13	2 Espe Carrillo	BTW	1135
3			4		11/13/19
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 33 of 36

Page 297 of 650

Chain of Custody

Work Order No: 413007

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 2 of 2

Project Manager:	daniel dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental	Company Name:	Chevron Environmental Management
Address:	3100 Plains Hwy	Address:	1500 Louisiana St. Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	832-854-5601	Email:	jmichelson@chevron.com; danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: (yes)	
Sampler's Name:	Daniel Dominguez	Due Date: 11-14-19	

SAMPLE RECEIPT			
Temperature (°C):	0.5 0.3	Temp Blank: Yes (No)	Wet Ice: (Yes) No
Received Intact:	(Yes) No	Thermometer ID:	126
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	BTEX	TPH
Floor1d	Soil	12-Nov-19	12:50	4	1		X	X
Floor2c	Soil	12-Nov-19	12:55	3.5	1		X	X
Floor3c	Soil	12-Nov-19	13:00	3.5	1		X	X
Floor4d	Soil	12-Nov-19	13:05	4	1		X	X
Floor5c	Soil	12-Nov-19	13:10	3.5	1		X	X
Floor6c	Soil	12-Nov-19	13:15	3.5	1		X	X
Floor7b	Soil	12-Nov-19	13:20	3	1		X	X
Floor8b	Soil	12-Nov-19	13:25	3	1		X	X
Floor9b	Soil	12-Nov-19	13:30	3	1		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

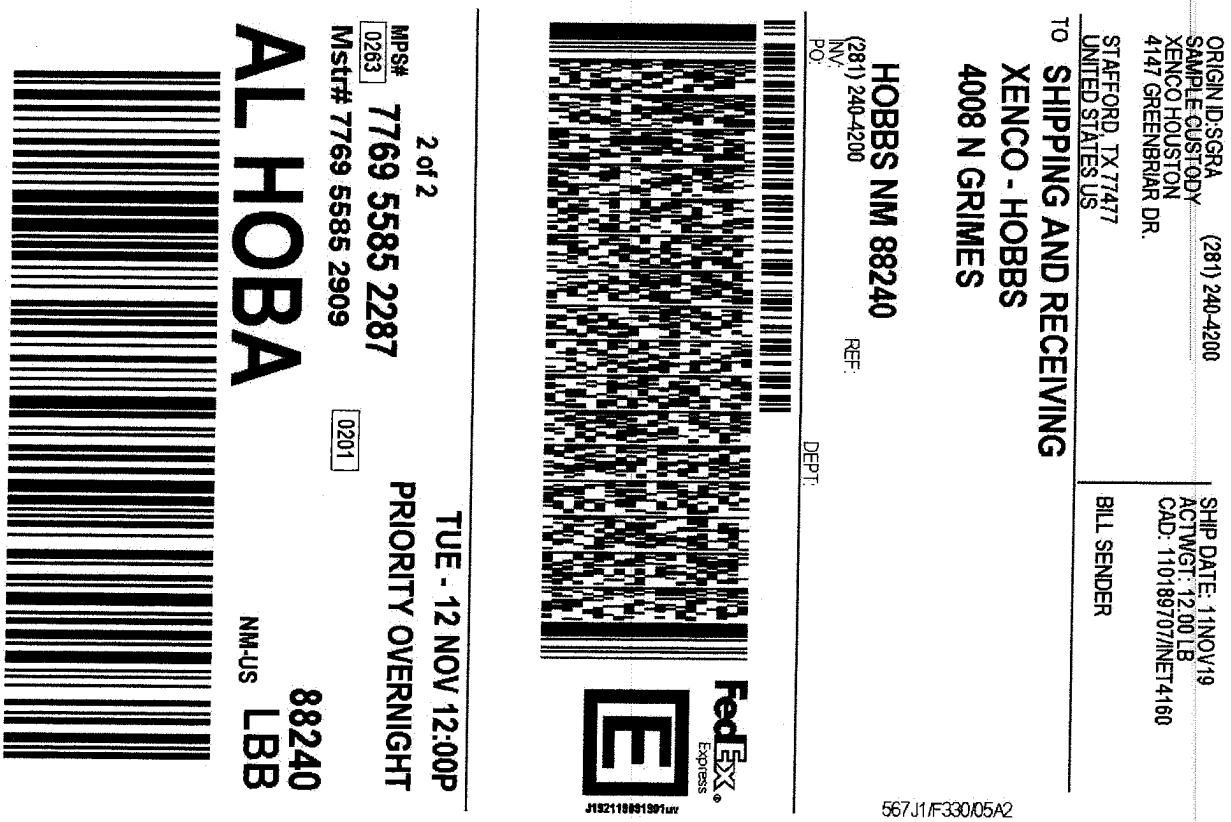
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility 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.

1.3

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time		Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		Eppa Carrillo	11-12-19 4:13	2	Eppa Carrillo		1135 11/13/19
3				4			
5				6			

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 34 of 36



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

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

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 11/13/2019 11:35:00 AM

Work Order #: 643007

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

Temperature Measuring device used : R8

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

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

Analyst:

PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11/13/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11/14/2019

Jessica Kramer

Certificate of Analysis Summary 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: CVU #47 H

Project Id:
Contact: Daniel Dominguez
Project Location:

Date Received in Lab: Thu Nov-14-19 11:20 am
Report Date: 15-NOV-19
Project Manager: Jessica Kramer

Analysis Requested											
	Lab Id:	643195-001		643195-002		643195-003		643195-004		643195-005	
	Field Id:	SENWc		SEEW		SEWW		SESW		SEFloor	
	Depth:	2- ft		2- ft		2- ft		2- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-13-19 10:30		Nov-13-19 10:05		Nov-13-19 10:10		Nov-13-19 10:15		Nov-13-19 10:20	
BTEX by EPA 8021B	***Extracted:***	Nov-14-19 12:00		Nov-14-19 12:00		Nov-14-19 12:00		Nov-14-19 12:00		Nov-14-19 12:00	
	Analyzed:	Nov-14-19 16:36		Nov-14-19 16:55		Nov-14-19 17:14		Nov-14-19 17:33		Nov-14-19 17:52	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00100	0.00100	<0.000990	0.000990	<0.00100	0.00100	<0.00101	0.00101	<0.000996	0.000996
Toluene		<0.00100	0.00100	<0.000990	0.000990	<0.00100	0.00100	<0.00101	0.00101	<0.000996	0.000996
Ethylbenzene		<0.00100	0.00100	<0.000990	0.000990	<0.00100	0.00100	<0.00101	0.00101	<0.000996	0.000996
m,p-Xylenes		0.00285	0.00201	<0.00198	0.00198	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199
o-Xylene		0.00828	0.00100	<0.000990	0.000990	0.00116	0.00100	<0.00101	0.00101	<0.000996	0.000996
Total Xylenes		0.0111	0.00100	<0.000990	0.000990	0.00116	0.00100	<0.00101	0.00101	<0.000996	0.000996
Total BTEX		0.0111	0.00100	<0.000990	0.000990	0.00116	0.00100	<0.00101	0.00101	<0.000996	0.000996
Chloride by EPA 300	***Extracted:***	Nov-14-19 13:11		Nov-14-19 13:11		Nov-14-19 13:11		Nov-14-19 13:11		Nov-14-19 13:11	
	Analyzed:	Nov-14-19 17:47		Nov-14-19 17:53		Nov-14-19 18:11		Nov-14-19 18:17		Nov-14-19 18:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		248	10.0	289	49.4	415	10.0	371	10.1	954	50.1
TPH By SW8015 Mod	***Extracted:***	Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11	
	Analyzed:	Nov-15-19 01:44		Nov-15-19 02:04		Nov-15-19 13:28		Nov-15-19 13:48		Nov-15-19 03:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.3	50.3	<50.3	50.3	<50.3	50.3	<49.9	49.9
Diesel Range Organics (DRO)		<50.2	50.2	<50.3	50.3	<50.3	50.3	<50.3	50.3	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.3	50.3	<50.3	50.3	<50.3	50.3	<49.9	49.9
Total TPH		<50.2	50.2	<50.3	50.3	<50.3	50.3	<50.3	50.3	<49.9	49.9

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

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

Jessica Kramer
Project Assistant

Final 1.000

Analytical Report 643195

for

Etech Environmental & Safety Solution, Inc

Project Manager: Daniel Dominguez

CVU #47 H

15-NOV-19

Collected By: Client



1089 N Canal Street
Carlsbad, NM 88220

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

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

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

15-NOV-19

Project Manager: **Daniel Dominguez**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **643195**
CVU #47 H
Project Address:

Daniel Dominguez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 643195. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 643195 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

Sample Cross Reference 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SENWc	S	11-13-19 10:30	2 ft	643195-001
SEEW	S	11-13-19 10:05	2 ft	643195-002
SEWW	S	11-13-19 10:10	2 ft	643195-003
SESW	S	11-13-19 10:15	2 ft	643195-004
SEFloor	S	11-13-19 10:20	4 ft	643195-005

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: CVU #47 H

Project ID:
Work Order Number(s): *643195*

Report Date: *15-NOV-19*
Date Received: *11/14/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3107589 BTEX by EPA 8021B

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

Certificate of Analytical Results 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id:	**SENWc**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643195-001	Date Collected:	11.13.19 10.30	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 13.11	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**248**	10.0	mg/kg	11.14.19 17.47		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.15.19 01.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.15.19 01.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.15.19 01.44	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.15.19 01.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	89	%	70-135	11.15.19 01.44	
o-Terphenyl	84-15-1	95	%	70-135	11.15.19 01.44	

Certificate of Analytical Results 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id:	**SENWc**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643195-001	Date Collected:	11.13.19 10.30	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 12.00	Basis:	Wet Weight
Seq Number:	3107589				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.14.19 16.36	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.14.19 16.36	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.14.19 16.36	U	1
m,p-Xylenes	179601-23-1	**0.00285**	0.00201	mg/kg	11.14.19 16.36		1
o-Xylene	95-47-6	**0.00828**	0.00100	mg/kg	11.14.19 16.36		1
Total Xylenes	1330-20-7	**0.0111**	0.00100	mg/kg	11.14.19 16.36		1
Total BTEX		**0.0111**	0.00100	mg/kg	11.14.19 16.36		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	102	%	70-130	11.14.19 16.36	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.14.19 16.36	

Certificate of Analytical Results 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id:	**SEEW**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643195-002	Date Collected:	11.13.19 10.05	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 13.11	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**289**	49.4	mg/kg	11.14.19 17.53		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.15.19 02.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.15.19 02.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.15.19 02.04	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.15.19 02.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	11.15.19 02.04	
o-Terphenyl	84-15-1	99	%	70-135	11.15.19 02.04	

Certificate of Analytical Results 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id:	**SEEW**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643195-002	Date Collected:	11.13.19 10.05	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 12.00	Basis:	Wet Weight
Seq Number:	3107589				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000990	0.000990	mg/kg	11.14.19 16.55	U	1
Toluene	108-88-3	<0.000990	0.000990	mg/kg	11.14.19 16.55	U	1
Ethylbenzene	100-41-4	<0.000990	0.000990	mg/kg	11.14.19 16.55	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	11.14.19 16.55	U	1
o-Xylene	95-47-6	<0.000990	0.000990	mg/kg	11.14.19 16.55	U	1
Total Xylenes	1330-20-7	<0.000990	0.000990	mg/kg	11.14.19 16.55	U	1
Total BTEX		<0.000990	0.000990	mg/kg	11.14.19 16.55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.14.19 16.55	
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.14.19 16.55	

Certificate of Analytical Results 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id:	**SEWW**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643195-003	Date Collected:	11.13.19 10.10	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 13.11	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**415**	10.0	mg/kg	11.14.19 18.11		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.15.19 13.28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.15.19 13.28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.15.19 13.28	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.15.19 13.28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.15.19 13.28	
o-Terphenyl	84-15-1	116	%	70-135	11.15.19 13.28	

Certificate of Analytical Results 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id:	**SEWW**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643195-003	Date Collected:	11.13.19 10.10	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 12.00	Basis:	Wet Weight
Seq Number:	3107589				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.14.19 17.14	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.14.19 17.14	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.14.19 17.14	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.14.19 17.14	U	1
o-Xylene	95-47-6	**0.00116**	0.00100	mg/kg	11.14.19 17.14		1
Total Xylenes	1330-20-7	**0.00116**	0.00100	mg/kg	11.14.19 17.14		1
Total BTEX		**0.00116**	0.00100	mg/kg	11.14.19 17.14		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.14.19 17.14	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.14.19 17.14	

Certificate of Analytical Results 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id:	**SESW**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643195-004	Date Collected:	11.13.19 10.15	Sample Depth:	2 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 13.11	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**371**	10.1	mg/kg	11.14.19 18.17		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.15.19 13.48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.15.19 13.48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.15.19 13.48	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.15.19 13.48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-135	11.15.19 13.48	
o-Terphenyl	84-15-1	108	%	70-135	11.15.19 13.48	

Certificate of Analytical Results 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id:	**SESW**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643195-004	Date Collected:	11.13.19 10.15	Sample Depth:	2 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 12.00	Basis:	Wet Weight
Seq Number:	3107589				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.14.19 17.33	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.14.19 17.33	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.14.19 17.33	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	11.14.19 17.33	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.14.19 17.33	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.14.19 17.33	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.14.19 17.33	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.14.19 17.33	
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.14.19 17.33	

Certificate of Analytical Results 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id:	**SEFloor**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643195-005	Date Collected:	11.13.19 10.20	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 13.11	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**954**	50.1	mg/kg	11.14.19 18.23		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.15.19 03.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.15.19 03.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.15.19 03.04	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.15.19 03.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-135	11.15.19 03.04	
o-Terphenyl	84-15-1	115	%	70-135	11.15.19 03.04	

Certificate of Analytical Results 643195

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id:	**SEFloor**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643195-005	Date Collected:	11.13.19 10.20	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 12.00	Basis:	Wet Weight
Seq Number:	3107589				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996	mg/kg	11.14.19 17.52	U	1
Toluene	108-88-3	<0.000996	0.000996	mg/kg	11.14.19 17.52	U	1
Ethylbenzene	100-41-4	<0.000996	0.000996	mg/kg	11.14.19 17.52	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	11.14.19 17.52	U	1
o-Xylene	95-47-6	<0.000996	0.000996	mg/kg	11.14.19 17.52	U	1
Total Xylenes	1330-20-7	<0.000996	0.000996	mg/kg	11.14.19 17.52	U	1
Total BTEX		<0.000996	0.000996	mg/kg	11.14.19 17.52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.14.19 17.52	
1,4-Difluorobenzene	540-36-3	106	%	70-130	11.14.19 17.52	

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

Released to Imaging: 8/2/2021 4:21:03 PM

QC Summary 643195

Etech Environmental & Safety Solution, Inc

CVU #47 H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107612 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690440-1-BLK — LCS Sample Id: 7690440-1-BKS — LCSD Sample Id: 7690440-1-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	247	99	248	99	90-110	0	20	mg/kg	11.14.19 16:25	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107612 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643195-002 — MS Sample Id: 643195-002 S — MSD Sample Id: 643195-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	289	198	491	102	487	100	90-110	1	20	mg/kg	11.14.19 17:59	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107612 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643204-001 — MS Sample Id: 643204-001 S — MSD Sample Id: 643204-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	230	200	440	105	435	103	90-110	1	20	mg/kg	11.14.19 16:43	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107605 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690422-1-BLK — LCS Sample Id: 7690422-1-BKS — LCSD Sample Id: 7690422-1-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	950	95	966	97	70-135	2	35	mg/kg	11.14.19 23:22	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1100	110	70-135	4	35	mg/kg	11.14.19 23:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		130		131		70-135	%	11.14.19 23:22
o-Terphenyl	114		128		121		70-135	%	11.14.19 23:22

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107605 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690422-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.14.19 23:02	

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

QC Summary 643195

Etech Environmental & Safety Solution, Inc

CVU #47 H

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107605 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643201-010 — MS Sample Id: 643201-010 S — MSD Sample Id: 643201-010 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	840	83	945	95	70-135	12	35	mg/kg	11.15.19 00:23	
Diesel Range Organics (DRO)	<50.3	1010	969	96	1080	109	70-135	11	35	mg/kg	11.15.19 00:23	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		128		70-135	%	11.15.19 00:23
o-Terphenyl	101		115		70-135	%	11.15.19 00:23

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3107589 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690312-1-BLK — LCS Sample Id: 7690312-1-BKS — LCSD Sample Id: 7690312-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.0989	99	0.0948	95	70-130	4	35	mg/kg	11.14.19 10:38	
Toluene	<0.00100	0.100	0.0995	100	0.0957	96	70-130	4	35	mg/kg	11.14.19 10:38	
Ethylbenzene	<0.00100	0.100	0.101	101	0.0969	97	71-129	4	35	mg/kg	11.14.19 10:38	
m,p-Xylenes	<0.00200	0.200	0.215	108	0.206	103	70-135	4	35	mg/kg	11.14.19 10:38	
o-Xylene	<0.00100	0.100	0.107	107	0.102	102	71-133	5	35	mg/kg	11.14.19 10:38	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		103		103		70-130	%	11.14.19 10:38
4-Bromofluorobenzene	105		113		111		70-130	%	11.14.19 10:38

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3107589 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643116-021 — MS Sample Id: 643116-021 S — MSD Sample Id: 643116-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000998	0.0998	0.0940	94	0.0874	88	70-130	7	35	mg/kg	11.14.19 11:16	
Toluene	<0.000998	0.0998	0.0943	94	0.0913	92	70-130	3	35	mg/kg	11.14.19 11:16	
Ethylbenzene	<0.000998	0.0998	0.0945	95	0.0924	94	71-129	2	35	mg/kg	11.14.19 11:16	
m,p-Xylenes	<0.00200	0.200	0.201	101	0.197	99	70-135	2	35	mg/kg	11.14.19 11:16	
o-Xylene	<0.000998	0.0998	0.101	101	0.0991	100	71-133	2	35	mg/kg	11.14.19 11:16	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		103		70-130	%	11.14.19 11:16
4-Bromofluorobenzene	119		119		70-130	%	11.14.19 11:16

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

Page 318 of 650

Chain of Custody

Work Order No: 643195 ~~634195~~ ~~637195~~ au 11/15 11/19

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:	daniel dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental	Company Name:	Chevron Environmental Management
Address:	3100 Plains Hwy	Address:	1500 Louisiana St. Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	832-854-5601	Email:	jmichelson@chevron.com; danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: yes	
Sampler's Name:	Daniel Dominguez	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	3.0	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:	5	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	BTEX	TPH
SENWc	Soil	13-Nov-19	10:30	2'	1	X	X	X
SEEW	Soil	13-Nov-19	10:05	2'	1	X	X	X
SEWW	Soil	13-Nov-19	10:10	2'	1	X	X	X
SESW	Soil	13-Nov-19	10:15	2'	1	X	X	X
SEFloor	Soil	13-Nov-19	10:20	4'	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
	Cortez J	11/14/19 11:20	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 19 of 20
Released to Imaging: 8/2/2021 4:21:03 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 11/14/2019 11:20:00 AM

Work Order #: 643195

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 11/14/2019

Checklist reviewed by: Jessica Kramer Date: 11/15/2019

Certificate of Analysis Summary 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: CVU #47H

Project Id:
Contact: Daniel Dominguez
Project Location:

Date Received in Lab: Thu Nov-14-19 11:20 am
Report Date: 15-NOV-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	643198-001		643198-002		643198-003		643198-004		643198-005		643198-006	
	Field Id:	MEFL1		MEFL2		MEFL3		MEFL4		MEFL5		MEFL6	
	Depth:	4- ft		4- ft		4- ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-13-19 11:50		Nov-13-19 11:55		Nov-13-19 12:00		Nov-13-19 12:05		Nov-13-19 12:10		Nov-13-19 12:15	
BTEX by EPA 8021B	***Extracted:***	Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11	
	Analyzed:	Nov-15-19 06:44		Nov-15-19 07:03		Nov-15-19 00:02		Nov-15-19 00:21		Nov-15-19 00:41		Nov-15-19 01:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101
Toluene		<0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101
Ethylbenzene		<0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101
m,p-Xylenes		<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202	<0.00202	0.00202	<0.00201	0.00201	<0.00202	0.00202
o-Xylene		0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101
Total Xylenes		0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101
Total BTEX		0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00101	0.00101
Chloride by EPA 300	***Extracted:***	Nov-14-19 18:00		Nov-14-19 18:00		Nov-14-19 18:00		Nov-14-19 18:00		Nov-14-19 18:00		Nov-14-19 18:00	
	Analyzed:	Nov-14-19 18:40		Nov-14-19 18:46		Nov-14-19 18:52		Nov-14-19 18:58		Nov-14-19 19:04		Nov-14-19 19:10	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		651	202	516	200	508	198	272	100	376	50.2	328	50.4
TPH By SW8015 Mod	***Extracted:***	Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11	
	Analyzed:	Nov-15-19 03:24		Nov-15-19 03:44		Nov-15-19 04:24		Nov-15-19 04:44		Nov-15-19 05:04		Nov-15-19 05:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.1	50.1	<50.1	50.1	<50.0	50.0
Diesel Range Organics (DRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.1	50.1	<50.1	50.1	<50.0	50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.1	50.1	<50.1	50.1	<50.0	50.0
Total TPH		<49.9	49.9	<50.0	50.0	<50.0	50.0	<50.1	50.1	<50.1	50.1	<50.0	50.0

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

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: CVU #47H

Project Id:
Contact: Daniel Dominguez
Project Location:

Date Received in Lab: Thu Nov-14-19 11:20 am
Report Date: 15-NOV-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	643198-007		643198-008		643198-009		643198-010		643198-011		643198-012	
	Field Id:	MEFL7		MEFL8		MEFL9		MEFL10		MEFL11		MEFL12	
	Depth:	4- ft		4- ft		4- ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-13-19 12:20		Nov-13-19 12:25		Nov-13-19 12:30		Nov-13-19 12:35		Nov-13-19 12:40		Nov-13-19 12:45	
BTEX by EPA 8021B	***Extracted:***	Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11	
	Analyzed:	Nov-15-19 01:19		Nov-15-19 01:38		Nov-15-19 01:57		Nov-15-19 02:16		Nov-15-19 02:35		Nov-15-19 04:11	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.000994	0.000994
Toluene		<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.000994	0.000994
Ethylbenzene		<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.000994	0.000994
m,p-Xylenes		<0.00201	0.00201	<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200	<0.00202	0.00202	<0.00199	0.00199
o-Xylene		<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.000994	0.000994
Total Xylenes		<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.000994	0.000994
Total BTEX		<0.00100	0.00100	<0.00101	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.000994	0.000994
Chloride by EPA 300	***Extracted:***	Nov-14-19 18:00		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11	
	Analyzed:	Nov-14-19 19:15		Nov-14-19 19:53		Nov-14-19 20:12		Nov-14-19 20:19		Nov-14-19 20:25		Nov-14-19 20:31	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1110	200	486	50.2	471	50.0	154	9.98	413	98.8	306	49.3
TPH By SW8015 Mod	***Extracted:***	Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11	
	Analyzed:	Nov-15-19 05:44		Nov-15-19 06:04		Nov-15-19 06:24		Nov-15-19 06:44		Nov-15-19 07:04		Nov-15-19 07:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.3	50.3	<50.3	50.3	<50.1	50.1	<50.3	50.3	<50.1	50.1
Diesel Range Organics (DRO)		<50.2	50.2	<50.3	50.3	<50.3	50.3	<50.1	50.1	<50.3	50.3	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.3	50.3	<50.3	50.3	<50.1	50.1	<50.3	50.3	<50.1	50.1
Total TPH		<50.2	50.2	<50.3	50.3	<50.3	50.3	<50.1	50.1	<50.3	50.3	<50.1	50.1

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

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: CVU #47H

Project Id:

Contact: Daniel Dominguez

Project Location:

Date Received in Lab: Thu Nov-14-19 11:20 am

Report Date: 15-NOV-19

Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	643198-013		643198-014		643198-015		643198-016		643198-017		643198-018	
	Field Id:	MEFL13		MEFL14		MEFL15		MEFL16		MEFL17		MEFL18	
	Depth:	4- ft		4- ft		4- ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-13-19 12:50		Nov-13-19 12:55		Nov-13-19 13:00		Nov-13-19 13:05		Nov-13-19 13:10		Nov-13-19 13:15	
BTEX by EPA 8021B	***Extracted:***	Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11	
	Analyzed:	Nov-15-19 04:30		Nov-15-19 04:49		Nov-15-19 05:08		Nov-15-19 05:27		Nov-15-19 05:46		Nov-15-19 06:05	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.000996	0.000996	<0.000998	0.000998	<0.00100	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100
Toluene		<0.000996	0.000996	<0.000998	0.000998	<0.00100	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100
Ethylbenzene		0.00260	0.000996	0.00328	0.000998	<0.00100	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100
m,p-Xylenes		0.00365	0.00199	0.00673	0.00200	<0.00200	0.00200	<0.00199	0.00199	<0.00198	0.00198	<0.00201	0.00201
o-Xylene		0.00248	0.000996	0.00502	0.000998	0.00125	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100
Total Xylenes		0.00613	0.000996	0.0118	0.000998	0.00125	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100
Total BTEX		0.00873	0.000996	0.0150	0.000998	0.00125	0.00100	<0.000994	0.000994	<0.000990	0.000990	<0.00100	0.00100
Chloride by EPA 300	***Extracted:***	Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11	
	Analyzed:	Nov-14-19 20:50		Nov-14-19 20:57		Nov-14-19 21:03		Nov-14-19 21:09		Nov-14-19 21:16		Nov-14-19 21:22	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1510	98.4	864	200	363	198	213	200	564	100	407	100
TPH By SW8015 Mod	***Extracted:***	Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11	
	Analyzed:	Nov-15-19 00:03		Nov-15-19 01:03		Nov-15-19 01:24		Nov-15-19 01:44		Nov-15-19 02:04		Nov-15-19 02:24	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.0	50.0	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.0	50.0	<49.9	49.9
Diesel Range Organics (DRO)		<50.0	50.0	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.0	50.0	<49.9	49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0	50.0	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.0	50.0	<49.9	49.9
Total TPH		<50.0	50.0	<50.3	50.3	<50.2	50.2	<50.2	50.2	<50.0	50.0	<49.9	49.9

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

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: CVU #47H

Project Id:
Contact: Daniel Dominguez
Project Location:

Date Received in Lab: Thu Nov-14-19 11:20 am
Report Date: 15-NOV-19
Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	643198-019		643198-020		643198-021		643198-022		643198-023		643198-024	
	Field Id:	MEF19		MEF20		MEF21		MEFL22		MEFL23		MEFL24	
	Depth:	4- ft		4- ft		4- ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-13-19 13:20		Nov-13-19 13:25		Nov-13-19 13:30		Nov-13-19 13:35		Nov-13-19 13:40		Nov-13-19 13:45	
BTEX by EPA 8021B	***Extracted:***	Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11	
	Analyzed:	Nov-15-19 06:24		Nov-14-19 23:43		Nov-15-19 03:31		Nov-15-19 03:51		Nov-15-19 04:12		Nov-15-19 04:32	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00101	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101
Toluene		<0.00101	0.00101	0.00808	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101
Ethylbenzene		<0.00101	0.00101	0.00808	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101
m,p-Xylenes		0.00506	0.00202	0.00808	0.00202	<0.00200	0.00200	<0.00201	0.00201	<0.00202	0.00202	<0.00202	0.00202
o-Xylene		0.00364	0.00101	<0.00101	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101
Total Xylenes		0.00870	0.00101	0.00808	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101
Total BTEX		0.00870	0.00101	0.0242	0.00101	<0.00100	0.00100	<0.00100	0.00100	<0.00101	0.00101	<0.00101	0.00101
Chloride by EPA 300	***Extracted:***	Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11	
	Analyzed:	Nov-14-19 21:41		Nov-14-19 21:48		Nov-14-19 22:07		Nov-14-19 22:13		Nov-14-19 22:19		Nov-14-19 22:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		445	100	537	202	454	202	427	100	913	99.4	855	99.8
TPH By SW8015 Mod	***Extracted:***	Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11	
	Analyzed:	Nov-15-19 02:44		Nov-15-19 03:04		Nov-15-19 03:24		Nov-15-19 03:44		Nov-15-19 04:24		Nov-15-19 04:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.1	50.1
Diesel Range Organics (DRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.1	50.1
Total TPH		<49.8	49.8	<50.0	50.0	<50.0	50.0	<49.9	49.9	<49.9	49.9	<50.1	50.1

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

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: CVU #47H

Project Id:

Contact: Daniel Dominguez

Project Location:

Date Received in Lab: Thu Nov-14-19 11:20 am

Report Date: 15-NOV-19

Project Manager: Jessica Kramer

Analysis Requested													
	Lab Id:	643198-025		643198-026		643198-027		643198-028		643198-029		643198-030	
	Field Id:	MEFL25		MEFL26		MEFL27		MEFL28		MEFL29		MEFL30	
	Depth:	4- ft		4- ft		4- ft		4- ft		4- ft		4- ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Nov-13-19 13:50		Nov-13-19 13:55		Nov-13-19 14:00		Nov-13-19 14:05		Nov-13-19 14:10		Nov-13-19 14:15	
BTEX by EPA 8021B	***Extracted:***	Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11	
	Analyzed:	Nov-15-19 04:53		Nov-15-19 05:13		Nov-15-19 05:34		Nov-15-19 05:54		Nov-15-19 06:14		Nov-15-19 08:04	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		<0.00101	0.00101	<0.000996	0.000996	<0.000998	0.000998	<0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101
Toluene		<0.00101	0.00101	<0.000996	0.000996	<0.000998	0.000998	<0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101
Ethylbenzene		<0.00101	0.00101	<0.000996	0.000996	<0.000998	0.000998	<0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101
m,p-Xylenes		<0.00202	0.00202	<0.00199	0.00199	<0.00200	0.00200	<0.00200	0.00200	<0.00200	0.00200	<0.00202	0.00202
o-Xylene		<0.00101	0.00101	<0.000996	0.000996	<0.000998	0.000998	<0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101
Total Xylenes		<0.00101	0.00101	<0.000996	0.000996	<0.000998	0.000998	<0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101
Total BTEX		<0.00101	0.00101	<0.000996	0.000996	<0.000998	0.000998	<0.000998	0.000998	<0.00100	0.00100	<0.00101	0.00101
Chloride by EPA 300	***Extracted:***	Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11		Nov-15-19 07:30		Nov-15-19 07:30		Nov-15-19 07:30	
	Analyzed:	Nov-14-19 22:32		Nov-14-19 22:38		Nov-14-19 22:45		Nov-15-19 08:26		Nov-15-19 08:44		Nov-15-19 08:49	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		301	49.4	461	99.8	144	100	681	99.8	136	9.88	367	50.4
TPH By SW8015 Mod	***Extracted:***	Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 16:11	
	Analyzed:	Nov-15-19 05:04		Nov-15-19 05:24		Nov-15-19 05:44		Nov-15-19 06:04		Nov-15-19 06:24		Nov-15-19 06:44	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<50.2	50.2	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.1	50.1	<50.1	50.1
Diesel Range Organics (DRO)		<50.2	50.2	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.1	50.1	<50.1	50.1
Motor Oil Range Hydrocarbons (MRO)		<50.2	50.2	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.1	50.1	<50.1	50.1
Total TPH		<50.2	50.2	<50.0	50.0	<49.9	49.9	<49.8	49.8	<50.1	50.1	<50.1	50.1

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

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

Jessica Kramer
Project Assistant

Final 1.000

Certificate of Analysis Summary 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

Project Name: CVU #47H

Project Id:
Contact: Daniel Dominguez
Project Location:

Date Received in Lab: Thu Nov-14-19 11:20 am
Report Date: 15-NOV-19
Project Manager: Jessica Kramer

Analysis Requested									
	Lab Id:	643198-031		643198-032		643198-033			
	Field Id:	MEFL31		MEFL32		MEFL33			
	Depth:	4- ft		4- ft		4- ft			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Nov-13-19 14:20		Nov-13-19 14:25		Nov-13-19 14:30			
BTEX by EPA 8021B	***Extracted:***	Nov-14-19 18:11		Nov-14-19 18:11		Nov-14-19 18:11			
	Analyzed:	Nov-15-19 08:24		Nov-15-19 08:45		Nov-15-19 03:11			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Benzene		<0.00101	0.00101	<0.00101	0.00101	<0.000998	0.000998		
Toluene		<0.00101	0.00101	<0.00101	0.00101	<0.000998	0.000998		
Ethylbenzene		<0.00101	0.00101	<0.00101	0.00101	<0.000998	0.000998		
m,p-Xylenes		<0.00202	0.00202	<0.00201	0.00201	<0.00200	0.00200		
o-Xylene		<0.00101	0.00101	<0.00101	0.00101	<0.000998	0.000998		
Total Xylenes		<0.00101	0.00101	<0.00101	0.00101	<0.000998	0.000998		
Total BTEX		<0.00101	0.00101	<0.00101	0.00101	<0.000998	0.000998		
Chloride by EPA 300	***Extracted:***	Nov-15-19 07:30		Nov-15-19 07:30		Nov-15-19 07:30			
	Analyzed:	Nov-15-19 08:55		Nov-15-19 09:01		Nov-15-19 09:19			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		461	50.1	171	100	115	10.1		
TPH By SW8015 Mod	***Extracted:***	Nov-14-19 16:11		Nov-14-19 16:11		Nov-14-19 17:00			
	Analyzed:	Nov-15-19 07:04		Nov-15-19 07:24		Nov-15-19 09:04			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0		
Diesel Range Organics (DRO)		<49.9	49.9	59.9	50.0	<50.0	50.0		
Motor Oil Range Hydrocarbons (MRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0		
Total TPH		<49.9	49.9	59.9	50.0	<50.0	50.0		

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

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

Jessica Kramer
Project Assistant

Final 1.000

Analytical Report 643198

for

Etech Environmental & Safety Solution, Inc

Project Manager: Daniel Dominguez

CVU #47H

15-NOV-19

Collected By: Client



1089 N Canal Street
Carlsbad, NM 88220

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

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

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

15-NOV-19

Project Manager: **Daniel Dominguez**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **643198**
CVU #47H
Project Address:

Daniel Dominguez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 643198. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 643198 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

Sample Cross Reference 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MEFL1	S	11-13-19 11:50	4 ft	643198-001
MEFL2	S	11-13-19 11:55	4 ft	643198-002
MEFL3	S	11-13-19 12:00	4 ft	643198-003
MEFL4	S	11-13-19 12:05	4 ft	643198-004
MEFL5	S	11-13-19 12:10	4 ft	643198-005
MEFL6	S	11-13-19 12:15	4 ft	643198-006
MEFL7	S	11-13-19 12:20	4 ft	643198-007
MEFL8	S	11-13-19 12:25	4 ft	643198-008
MEFL9	S	11-13-19 12:30	4 ft	643198-009
MEFL10	S	11-13-19 12:35	4 ft	643198-010
MEFL11	S	11-13-19 12:40	4 ft	643198-011
MEFL12	S	11-13-19 12:45	4 ft	643198-012
MEFL13	S	11-13-19 12:50	4 ft	643198-013
MEFL14	S	11-13-19 12:55	4 ft	643198-014
MEFL15	S	11-13-19 13:00	4 ft	643198-015
MEFL16	S	11-13-19 13:05	4 ft	643198-016
MEFL17	S	11-13-19 13:10	4 ft	643198-017
MEFL18	S	11-13-19 13:15	4 ft	643198-018
MEF19	S	11-13-19 13:20	4 ft	643198-019
MEF20	S	11-13-19 13:25	4 ft	643198-020
MEF21	S	11-13-19 13:30	4 ft	643198-021
MEFL22	S	11-13-19 13:35	4 ft	643198-022
MEFL23	S	11-13-19 13:40	4 ft	643198-023
MEFL24	S	11-13-19 13:45	4 ft	643198-024
MEFL25	S	11-13-19 13:50	4 ft	643198-025
MEFL26	S	11-13-19 13:55	4 ft	643198-026
MEFL27	S	11-13-19 14:00	4 ft	643198-027
MEFL28	S	11-13-19 14:05	4 ft	643198-028
MEFL29	S	11-13-19 14:10	4 ft	643198-029
MEFL30	S	11-13-19 14:15	4 ft	643198-030
MEFL31	S	11-13-19 14:20	4 ft	643198-031
MEFL32	S	11-13-19 14:25	4 ft	643198-032
MEFL33	S	11-13-19 14:30	4 ft	643198-033

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc
Project Name: CVU #47H

Project ID:
Work Order Number(s): *643198*

Report Date: *15-NOV-19*
Date Received: *11/14/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3107596 BTEX by EPA 8021B
Lab Sample ID 643198-020 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Toluene recovered below QC limits in the Matrix Spike. Ethylbenzene recovered below QC limits in the Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 643198-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020.
The Laboratory Control Sample for Toluene, Ethylbenzene is within laboratory Control Limits, therefore the data was accepted.
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3107600 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3107619 TPH by SW8015 Mod
Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 643198-022,643198-028,643198-029.

Batch: LBA-3107626 Chloride by EPA 300
Lab Sample ID 643198-018 was randomly selected for Matrix Spike/Matrix Spike Duplicate (MS/MSD). Chloride recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Outlier/s are due to possible matrix interference. Samples in the analytical batch are: 643198-008, -009, -010, -011, -012, -013, -014, -015, -016, -017, -018, -019, -020, -021, -022, -023, -024, -025, -026, -027.
The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.

Batch: LBA-3107677 TPH by SW8015 Mod
Surrogate 1-Chlorooctane, Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 643198-033.

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: CVU #47H

Project ID:

Work Order Number(s): *643198*

Report Date: *15-NOV-19*

Date Received: *11/14/2019*

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL1**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-001	Date Collected:	11.13.19 11.50	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.00	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**651**	202	mg/kg	11.14.19 18.40		20

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.15.19 03.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.15.19 03.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.15.19 03.24	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.15.19 03.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-135	11.15.19 03.24	
o-Terphenyl	84-15-1	105	%	70-135	11.15.19 03.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL1**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-001	Date Collected:	11.13.19 11.50	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	11.15.19 06.44	U	1
Toluene	108-88-3	<0.000998	0.000998	mg/kg	11.15.19 06.44	U	1
Ethylbenzene	100-41-4	<0.000998	0.000998	mg/kg	11.15.19 06.44	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.15.19 06.44	U	1
o-Xylene	95-47-6	**0.000998**	0.000998	mg/kg	11.15.19 06.44		1
Total Xylenes	1330-20-7	**0.000998**	0.000998	mg/kg	11.15.19 06.44		1
Total BTEX		**0.000998**	0.000998	mg/kg	11.15.19 06.44		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.15.19 06.44	
4-Bromofluorobenzene	460-00-4	127	%	70-130	11.15.19 06.44	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL2**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-002	Date Collected:	11.13.19 11.55	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.00	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**516**	200	mg/kg	11.14.19 18.46		20

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.15.19 03.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.15.19 03.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.15.19 03.44	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.15.19 03.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	11.15.19 03.44	
o-Terphenyl	84-15-1	128	%	70-135	11.15.19 03.44	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL2**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-002	Date Collected:	11.13.19 11.55	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.15.19 07.03	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.15.19 07.03	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.15.19 07.03	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.15.19 07.03	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.15.19 07.03	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.15.19 07.03	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.15.19 07.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	11.15.19 07.03	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.15.19 07.03	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL3**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-003	Date Collected:	11.13.19 12.00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.00	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**508**	198	mg/kg	11.14.19 18.52		20

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.15.19 04.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.15.19 04.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.15.19 04.24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.15.19 04.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	11.15.19 04.24	
o-Terphenyl	84-15-1	135	%	70-135	11.15.19 04.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL3**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-003	Date Collected:	11.13.19 12.00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 00.02	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 00.02	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 00.02	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	11.15.19 00.02	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.15.19 00.02	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.15.19 00.02	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.15.19 00.02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	11.15.19 00.02	
1,4-Difluorobenzene	540-36-3	97	%	70-130	11.15.19 00.02	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL4**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-004	Date Collected:	11.13.19 12.05	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.00	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**272**	100	mg/kg	11.14.19 18.58		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.15.19 04.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.15.19 04.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.15.19 04.44	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.15.19 04.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-135	11.15.19 04.44	
o-Terphenyl	84-15-1	124	%	70-135	11.15.19 04.44	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL4**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-004	Date Collected:	11.13.19 12.05	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 00.21	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 00.21	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 00.21	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	11.15.19 00.21	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.15.19 00.21	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.15.19 00.21	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.15.19 00.21	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.15.19 00.21	
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.15.19 00.21	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL5**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-005	Date Collected:	11.13.19 12.10	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.00	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**376**	50.2	mg/kg	11.14.19 19.04		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.15.19 05.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.15.19 05.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.15.19 05.04	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.15.19 05.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	11.15.19 05.04	
o-Terphenyl	84-15-1	115	%	70-135	11.15.19 05.04	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL5**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-005	Date Collected:	11.13.19 12.10	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.15.19 00.41	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.15.19 00.41	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.15.19 00.41	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	11.15.19 00.41	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.15.19 00.41	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.15.19 00.41	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.15.19 00.41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.15.19 00.41	
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.15.19 00.41	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL6**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-006	Date Collected:	11.13.19 12.15	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.00	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**328**	50.4	mg/kg	11.14.19 19.10		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.15.19 05.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.15.19 05.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.15.19 05.24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.15.19 05.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	83	%	70-135	11.15.19 05.24	
o-Terphenyl	84-15-1	89	%	70-135	11.15.19 05.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL6**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-006	Date Collected:	11.13.19 12.15	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 01.00	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 01.00	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 01.00	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	11.15.19 01.00	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.15.19 01.00	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.15.19 01.00	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.15.19 01.00	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.15.19 01.00	
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.15.19 01.00	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL7**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-007	Date Collected:	11.13.19 12.20	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.00	Basis:	Wet Weight
Seq Number:	3107612				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1110**	200	mg/kg	11.14.19 19.15		20

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.15.19 05.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.15.19 05.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.15.19 05.44	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.15.19 05.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-135	11.15.19 05.44	
o-Terphenyl	84-15-1	111	%	70-135	11.15.19 05.44	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL7**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-007	Date Collected:	11.13.19 12.20	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.15.19 01.19	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.15.19 01.19	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.15.19 01.19	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	11.15.19 01.19	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.15.19 01.19	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.15.19 01.19	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.15.19 01.19	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.15.19 01.19	
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.15.19 01.19	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL8**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-008	Date Collected:	11.13.19 12.25	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**486**	50.2	mg/kg	11.15.19 13.10		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.15.19 06.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.15.19 06.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.15.19 06.04	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.15.19 06.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	11.15.19 06.04	
o-Terphenyl	84-15-1	101	%	70-135	11.15.19 06.04	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL8**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-008	Date Collected:	11.13.19 12.25	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 01.38	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 01.38	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 01.38	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	11.15.19 01.38	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.15.19 01.38	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.15.19 01.38	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.15.19 01.38	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.15.19 01.38	
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.15.19 01.38	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL9**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-009	Date Collected:	11.13.19 12.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**471**	50.0	mg/kg	11.15.19 13.29		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.15.19 06.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.15.19 06.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.15.19 06.24	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.15.19 06.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	132	%	70-135	11.15.19 06.24	
o-Terphenyl	84-15-1	126	%	70-135	11.15.19 06.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL9**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-009	Date Collected:	11.13.19 12.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.15.19 01.57	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.15.19 01.57	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.15.19 01.57	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	11.15.19 01.57	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.15.19 01.57	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.15.19 01.57	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.15.19 01.57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.15.19 01.57	
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.15.19 01.57	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL10**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-010	Date Collected:	11.13.19 12.35	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**154**	9.98	mg/kg	11.15.19 13.36		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.15.19 06.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.15.19 06.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.15.19 06.44	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.15.19 06.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	93	%	70-135	11.15.19 06.44	
o-Terphenyl	84-15-1	100	%	70-135	11.15.19 06.44	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL10**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-010	Date Collected:	11.13.19 12.35	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.15.19 02.16	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.15.19 02.16	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.15.19 02.16	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.15.19 02.16	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.15.19 02.16	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.15.19 02.16	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.15.19 02.16	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.15.19 02.16	
4-Bromofluorobenzene	460-00-4	112	%	70-130	11.15.19 02.16	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL11**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-011	Date Collected:	11.13.19 12.40	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**413**	98.8	mg/kg	11.14.19 20.25		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.15.19 07.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.15.19 07.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.15.19 07.04	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.15.19 07.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-135	11.15.19 07.04	
o-Terphenyl	84-15-1	109	%	70-135	11.15.19 07.04	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL11**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-011	Date Collected:	11.13.19 12.40	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 02.35	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 02.35	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 02.35	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	11.15.19 02.35	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.15.19 02.35	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.15.19 02.35	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.15.19 02.35	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.15.19 02.35	
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.15.19 02.35	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL12**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-012	Date Collected:	11.13.19 12.45	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**306**	49.3	mg/kg	11.14.19 20.31		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107605				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.15.19 07.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.15.19 07.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.15.19 07.24	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.15.19 07.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	79	%	70-135	11.15.19 07.24	
o-Terphenyl	84-15-1	82	%	70-135	11.15.19 07.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL12**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-012	Date Collected:	11.13.19 12.45	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	11.15.19 04.11	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	11.15.19 04.11	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	11.15.19 04.11	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	11.15.19 04.11	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	11.15.19 04.11	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	11.15.19 04.11	U	1
Total BTEX		<0.000994	0.000994	mg/kg	11.15.19 04.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	11.15.19 04.11	
4-Bromofluorobenzene	460-00-4	108	%	70-130	11.15.19 04.11	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL13**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-013	Date Collected:	11.13.19 12.50	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1510**	98.4	mg/kg	11.14.19 20.50		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.15.19 00.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.15.19 00.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.15.19 00.03	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.15.19 00.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	92	%	70-135	11.15.19 00.03	
o-Terphenyl	84-15-1	97	%	70-135	11.15.19 00.03	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL13**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-013	Date Collected:	11.13.19 12.50	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996	mg/kg	11.15.19 04.30	U	1
Toluene	108-88-3	<0.000996	0.000996	mg/kg	11.15.19 04.30	U	1
Ethylbenzene	100-41-4	**0.00260**	0.000996	mg/kg	11.15.19 04.30		1
m,p-Xylenes	179601-23-1	**0.00365**	0.00199	mg/kg	11.15.19 04.30		1
o-Xylene	95-47-6	**0.00248**	0.000996	mg/kg	11.15.19 04.30		1
Total Xylenes	1330-20-7	**0.00613**	0.000996	mg/kg	11.15.19 04.30		1
Total BTEX		**0.00873**	0.000996	mg/kg	11.15.19 04.30		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.15.19 04.30	
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.15.19 04.30	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL14**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-014	Date Collected:	11.13.19 12.55	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**864**	200	mg/kg	11.14.19 20.57		20

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	mg/kg	11.15.19 01.03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	mg/kg	11.15.19 01.03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	mg/kg	11.15.19 01.03	U	1
Total TPH	PHC635	<50.3	50.3	mg/kg	11.15.19 01.03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.15.19 01.03	
o-Terphenyl	84-15-1	122	%	70-135	11.15.19 01.03	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL14**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-014	Date Collected:	11.13.19 12.55	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	11.15.19 04.49	U	1
Toluene	108-88-3	<0.000998	0.000998	mg/kg	11.15.19 04.49	U	1
Ethylbenzene	100-41-4	**0.00328**	0.000998	mg/kg	11.15.19 04.49		1
m,p-Xylenes	179601-23-1	**0.00673**	0.00200	mg/kg	11.15.19 04.49		1
o-Xylene	95-47-6	**0.00502**	0.000998	mg/kg	11.15.19 04.49		1
Total Xylenes	1330-20-7	**0.0118**	0.000998	mg/kg	11.15.19 04.49		1
Total BTEX		**0.0150**	0.000998	mg/kg	11.15.19 04.49		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.15.19 04.49	
4-Bromofluorobenzene	460-00-4	119	%	70-130	11.15.19 04.49	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL15**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-015	Date Collected:	11.13.19 13.00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**363**	198	mg/kg	11.14.19 21.03		20

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.15.19 01.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.15.19 01.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.15.19 01.24	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.15.19 01.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	131	%	70-135	11.15.19 01.24	
o-Terphenyl	84-15-1	130	%	70-135	11.15.19 01.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL15**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-015	Date Collected:	11.13.19 13.00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.15.19 05.08	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.15.19 05.08	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.15.19 05.08	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.15.19 05.08	U	1
o-Xylene	95-47-6	**0.00125**	0.00100	mg/kg	11.15.19 05.08		1
Total Xylenes	1330-20-7	**0.00125**	0.00100	mg/kg	11.15.19 05.08		1
Total BTEX		**0.00125**	0.00100	mg/kg	11.15.19 05.08		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	11.15.19 05.08	
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.15.19 05.08	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL16**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-016	Date Collected:	11.13.19 13.05	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**213**	200	mg/kg	11.14.19 21.09		20

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.15.19 01.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.15.19 01.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.15.19 01.44	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.15.19 01.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	11.15.19 01.44	
o-Terphenyl	84-15-1	110	%	70-135	11.15.19 01.44	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL16**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-016	Date Collected:	11.13.19 13.05	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000994	0.000994	mg/kg	11.15.19 05.27	U	1
Toluene	108-88-3	<0.000994	0.000994	mg/kg	11.15.19 05.27	U	1
Ethylbenzene	100-41-4	<0.000994	0.000994	mg/kg	11.15.19 05.27	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	11.15.19 05.27	U	1
o-Xylene	95-47-6	<0.000994	0.000994	mg/kg	11.15.19 05.27	U	1
Total Xylenes	1330-20-7	<0.000994	0.000994	mg/kg	11.15.19 05.27	U	1
Total BTEX		<0.000994	0.000994	mg/kg	11.15.19 05.27	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.15.19 05.27	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.15.19 05.27	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL17**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-017	Date Collected:	11.13.19 13.10	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**564**	100	mg/kg	11.14.19 21.16		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.15.19 02.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.15.19 02.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.15.19 02.04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.15.19 02.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-135	11.15.19 02.04	
o-Terphenyl	84-15-1	127	%	70-135	11.15.19 02.04	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL17**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-017	Date Collected:	11.13.19 13.10	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000990	0.000990	mg/kg	11.15.19 05.46	U	1
Toluene	108-88-3	<0.000990	0.000990	mg/kg	11.15.19 05.46	U	1
Ethylbenzene	100-41-4	<0.000990	0.000990	mg/kg	11.15.19 05.46	U	1
m,p-Xylenes	179601-23-1	<0.00198	0.00198	mg/kg	11.15.19 05.46	U	1
o-Xylene	95-47-6	<0.000990	0.000990	mg/kg	11.15.19 05.46	U	1
Total Xylenes	1330-20-7	<0.000990	0.000990	mg/kg	11.15.19 05.46	U	1
Total BTEX		<0.000990	0.000990	mg/kg	11.15.19 05.46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	11.15.19 05.46	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.15.19 05.46	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL18**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-018	Date Collected:	11.13.19 13.15	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**407**	100	mg/kg	11.14.19 21.22		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.15.19 02.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.15.19 02.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.15.19 02.24	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.15.19 02.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	133	%	70-135	11.15.19 02.24	
o-Terphenyl	84-15-1	122	%	70-135	11.15.19 02.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL18**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-018	Date Collected:	11.13.19 13.15	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.15.19 06.05	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.15.19 06.05	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.15.19 06.05	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	11.15.19 06.05	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.15.19 06.05	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.15.19 06.05	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.15.19 06.05	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.15.19 06.05	
4-Bromofluorobenzene	460-00-4	118	%	70-130	11.15.19 06.05	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEF19**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-019	Date Collected:	11.13.19 13.20	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**445**	100	mg/kg	11.14.19 21.41		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.15.19 02.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.15.19 02.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.15.19 02.44	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.15.19 02.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-135	11.15.19 02.44	
o-Terphenyl	84-15-1	134	%	70-135	11.15.19 02.44	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEF19**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-019	Date Collected:	11.13.19 13.20	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 06.24	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 06.24	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 06.24	U	1
m,p-Xylenes	179601-23-1	**0.00506**	0.00202	mg/kg	11.15.19 06.24		1
o-Xylene	95-47-6	**0.00364**	0.00101	mg/kg	11.15.19 06.24		1
Total Xylenes	1330-20-7	**0.00870**	0.00101	mg/kg	11.15.19 06.24		1
Total BTEX		**0.00870**	0.00101	mg/kg	11.15.19 06.24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	115	%	70-130	11.15.19 06.24	
1,4-Difluorobenzene	540-36-3	104	%	70-130	11.15.19 06.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEF20**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-020	Date Collected:	11.13.19 13.25	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**537**	202	mg/kg	11.14.19 21.48		20

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.15.19 03.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.15.19 03.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.15.19 03.04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.15.19 03.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-135	11.15.19 03.04	
o-Terphenyl	84-15-1	120	%	70-135	11.15.19 03.04	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEF20**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-020	Date Collected:	11.13.19 13.25	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107596				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.14.19 23.43	U	1
Toluene	108-88-3	**0.00808**	0.00101	mg/kg	11.14.19 23.43		1
Ethylbenzene	100-41-4	**0.00808**	0.00101	mg/kg	11.14.19 23.43		1
m,p-Xylenes	179601-23-1	**0.00808**	0.00202	mg/kg	11.14.19 23.43		1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.14.19 23.43	U	1
Total Xylenes	1330-20-7	**0.00808**	0.00101	mg/kg	11.14.19 23.43		1
Total BTEX		**0.0242**	0.00101	mg/kg	11.14.19 23.43		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	11.14.19 23.43	
1,4-Difluorobenzene	540-36-3	101	%	70-130	11.14.19 23.43	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEF21**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-021	Date Collected:	11.13.19 13.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**454**	202	mg/kg	11.14.19 22.07		20

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.15.19 03.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.15.19 03.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.15.19 03.24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.15.19 03.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	109	%	70-135	11.15.19 03.24	
o-Terphenyl	84-15-1	116	%	70-135	11.15.19 03.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEF21**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-021	Date Collected:	11.13.19 13.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.15.19 03.31	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.15.19 03.31	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.15.19 03.31	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.15.19 03.31	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.15.19 03.31	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.15.19 03.31	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.15.19 03.31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	11.15.19 03.31	
4-Bromofluorobenzene	460-00-4	125	%	70-130	11.15.19 03.31	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL22**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-022	Date Collected:	11.13.19 13.35	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**427**	100	mg/kg	11.14.19 22.13		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.15.19 03.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.15.19 03.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.15.19 03.44	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.15.19 03.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	137	%	70-135	11.15.19 03.44	**
o-Terphenyl	84-15-1	149	%	70-135	11.15.19 03.44	**

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL22**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-022	Date Collected:	11.13.19 13.35	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.15.19 03.51	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.15.19 03.51	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.15.19 03.51	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	11.15.19 03.51	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.15.19 03.51	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.15.19 03.51	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.15.19 03.51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	11.15.19 03.51	
4-Bromofluorobenzene	460-00-4	126	%	70-130	11.15.19 03.51	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL23**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-023	Date Collected:	11.13.19 13.40	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**913**	99.4	mg/kg	11.14.19 22.19		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.15.19 04.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.15.19 04.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.15.19 04.24	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.15.19 04.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	128	%	70-135	11.15.19 04.24	
o-Terphenyl	84-15-1	134	%	70-135	11.15.19 04.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL23**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-023	Date Collected:	11.13.19 13.40	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 04.12	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 04.12	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 04.12	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	11.15.19 04.12	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.15.19 04.12	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.15.19 04.12	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.15.19 04.12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	70-130	11.15.19 04.12	
1,4-Difluorobenzene	540-36-3	96	%	70-130	11.15.19 04.12	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL24**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-024	Date Collected:	11.13.19 13.45	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**855**	99.8	mg/kg	11.14.19 22.26		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.15.19 04.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.15.19 04.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.15.19 04.44	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.15.19 04.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	82	%	70-135	11.15.19 04.44	
o-Terphenyl	84-15-1	83	%	70-135	11.15.19 04.44	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL24**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-024	Date Collected:	11.13.19 13.45	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 04.32	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 04.32	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 04.32	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	11.15.19 04.32	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.15.19 04.32	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.15.19 04.32	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.15.19 04.32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	123	%	70-130	11.15.19 04.32	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.15.19 04.32	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL25**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-025	Date Collected:	11.13.19 13.50	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**301**	49.4	mg/kg	11.14.19 22.32		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	mg/kg	11.15.19 05.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	mg/kg	11.15.19 05.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	mg/kg	11.15.19 05.04	U	1
Total TPH	PHC635	<50.2	50.2	mg/kg	11.15.19 05.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	91	%	70-135	11.15.19 05.04	
o-Terphenyl	84-15-1	95	%	70-135	11.15.19 05.04	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL25**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-025	Date Collected:	11.13.19 13.50	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 04.53	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 04.53	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 04.53	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	11.15.19 04.53	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.15.19 04.53	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.15.19 04.53	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.15.19 04.53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	117	%	70-130	11.15.19 04.53	
1,4-Difluorobenzene	540-36-3	99	%	70-130	11.15.19 04.53	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL26**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-026	Date Collected:	11.13.19 13.55	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**461**	99.8	mg/kg	11.14.19 22.38		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.15.19 05.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.15.19 05.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.15.19 05.24	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.15.19 05.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	125	%	70-135	11.15.19 05.24	
o-Terphenyl	84-15-1	132	%	70-135	11.15.19 05.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL26**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-026	Date Collected:	11.13.19 13.55	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000996	0.000996	mg/kg	11.15.19 05.13	U	1
Toluene	108-88-3	<0.000996	0.000996	mg/kg	11.15.19 05.13	U	1
Ethylbenzene	100-41-4	<0.000996	0.000996	mg/kg	11.15.19 05.13	U	1
m,p-Xylenes	179601-23-1	<0.00199	0.00199	mg/kg	11.15.19 05.13	U	1
o-Xylene	95-47-6	<0.000996	0.000996	mg/kg	11.15.19 05.13	U	1
Total Xylenes	1330-20-7	<0.000996	0.000996	mg/kg	11.15.19 05.13	U	1
Total BTEX		<0.000996	0.000996	mg/kg	11.15.19 05.13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.15.19 05.13	
4-Bromofluorobenzene	460-00-4	113	%	70-130	11.15.19 05.13	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL27**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-027	Date Collected:	11.13.19 14.00	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107626				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**144**	100	mg/kg	11.14.19 22.45		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.15.19 05.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.15.19 05.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.15.19 05.44	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.15.19 05.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	124	%	70-135	11.15.19 05.44	
o-Terphenyl	84-15-1	129	%	70-135	11.15.19 05.44	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL27**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-027	Date Collected:	11.13.19 14.00	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	11.15.19 05.34	U	1
Toluene	108-88-3	<0.000998	0.000998	mg/kg	11.15.19 05.34	U	1
Ethylbenzene	100-41-4	<0.000998	0.000998	mg/kg	11.15.19 05.34	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.15.19 05.34	U	1
o-Xylene	95-47-6	<0.000998	0.000998	mg/kg	11.15.19 05.34	U	1
Total Xylenes	1330-20-7	<0.000998	0.000998	mg/kg	11.15.19 05.34	U	1
Total BTEX		<0.000998	0.000998	mg/kg	11.15.19 05.34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	70-130	11.15.19 05.34	
1,4-Difluorobenzene	540-36-3	96	%	70-130	11.15.19 05.34	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL28**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-028	Date Collected:	11.13.19 14.05	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.15.19 07.30	Basis:	Wet Weight
Seq Number:	3107636				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**681**	99.8	mg/kg	11.15.19 08.26		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	11.15.19 06.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	11.15.19 06.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	11.15.19 06.04	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	11.15.19 06.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	136	%	70-135	11.15.19 06.04	**
o-Terphenyl	84-15-1	136	%	70-135	11.15.19 06.04	**

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL28**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-028	Date Collected:	11.13.19 14.05	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	11.15.19 05.54	U	1
Toluene	108-88-3	<0.000998	0.000998	mg/kg	11.15.19 05.54	U	1
Ethylbenzene	100-41-4	<0.000998	0.000998	mg/kg	11.15.19 05.54	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.15.19 05.54	U	1
o-Xylene	95-47-6	<0.000998	0.000998	mg/kg	11.15.19 05.54	U	1
Total Xylenes	1330-20-7	<0.000998	0.000998	mg/kg	11.15.19 05.54	U	1
Total BTEX		<0.000998	0.000998	mg/kg	11.15.19 05.54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	11.15.19 05.54	
4-Bromofluorobenzene	460-00-4	126	%	70-130	11.15.19 05.54	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL29**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-029	Date Collected:	11.13.19 14.10	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.15.19 07.30	Basis:	Wet Weight
Seq Number:	3107636				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**136**	9.88	mg/kg	11.15.19 08.44		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.15.19 06.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.15.19 06.24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.15.19 06.24	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.15.19 06.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	136	%	70-135	11.15.19 06.24	**
o-Terphenyl	84-15-1	138	%	70-135	11.15.19 06.24	**

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL29**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-029	Date Collected:	11.13.19 14.10	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00100	0.00100	mg/kg	11.15.19 06.14	U	1
Toluene	108-88-3	<0.00100	0.00100	mg/kg	11.15.19 06.14	U	1
Ethylbenzene	100-41-4	<0.00100	0.00100	mg/kg	11.15.19 06.14	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.15.19 06.14	U	1
o-Xylene	95-47-6	<0.00100	0.00100	mg/kg	11.15.19 06.14	U	1
Total Xylenes	1330-20-7	<0.00100	0.00100	mg/kg	11.15.19 06.14	U	1
Total BTEX		<0.00100	0.00100	mg/kg	11.15.19 06.14	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	90	%	70-130	11.15.19 06.14	
4-Bromofluorobenzene	460-00-4	130	%	70-130	11.15.19 06.14	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL30**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-030	Date Collected:	11.13.19 14.15	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.15.19 07.30	Basis:	Wet Weight
Seq Number:	3107636				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**367**	50.4	mg/kg	11.15.19 08.49		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	mg/kg	11.15.19 06.44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	mg/kg	11.15.19 06.44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	mg/kg	11.15.19 06.44	U	1
Total TPH	PHC635	<50.1	50.1	mg/kg	11.15.19 06.44	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-135	11.15.19 06.44	
o-Terphenyl	84-15-1	111	%	70-135	11.15.19 06.44	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL30**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-030	Date Collected:	11.13.19 14.15	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 08.04	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 08.04	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 08.04	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	11.15.19 08.04	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.15.19 08.04	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.15.19 08.04	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.15.19 08.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	125	%	70-130	11.15.19 08.04	
1,4-Difluorobenzene	540-36-3	98	%	70-130	11.15.19 08.04	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL31**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-031	Date Collected:	11.13.19 14.20	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.15.19 07.30	Basis:	Wet Weight
Seq Number:	3107636				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**461**	50.1	mg/kg	11.15.19 08.55		5

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	11.15.19 07.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	11.15.19 07.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	11.15.19 07.04	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	11.15.19 07.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	127	%	70-135	11.15.19 07.04	
o-Terphenyl	84-15-1	134	%	70-135	11.15.19 07.04	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL31**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-031	Date Collected:	11.13.19 14.20	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 08.24	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 08.24	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 08.24	U	1
m,p-Xylenes	179601-23-1	<0.00202	0.00202	mg/kg	11.15.19 08.24	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.15.19 08.24	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.15.19 08.24	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.15.19 08.24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	97	%	70-130	11.15.19 08.24	
4-Bromofluorobenzene	460-00-4	123	%	70-130	11.15.19 08.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL32**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-032	Date Collected:	11.13.19 14.25	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.15.19 07.30	Basis:	Wet Weight
Seq Number:	3107636				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**171**	100	mg/kg	11.15.19 09.01		10

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 16.11	Basis:	Wet Weight
Seq Number:	3107619				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.15.19 07.24	U	1
Diesel Range Organics (DRO)	C10C28DRO	**59.9**	50.0	mg/kg	11.15.19 07.24		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.15.19 07.24	U	1
Total TPH	PHC635	**59.9**	50.0	mg/kg	11.15.19 07.24		1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	134	%	70-135	11.15.19 07.24	
o-Terphenyl	84-15-1	115	%	70-135	11.15.19 07.24	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL32**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-032	Date Collected:	11.13.19 14.25	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00101	0.00101	mg/kg	11.15.19 08.45	U	1
Toluene	108-88-3	<0.00101	0.00101	mg/kg	11.15.19 08.45	U	1
Ethylbenzene	100-41-4	<0.00101	0.00101	mg/kg	11.15.19 08.45	U	1
m,p-Xylenes	179601-23-1	<0.00201	0.00201	mg/kg	11.15.19 08.45	U	1
o-Xylene	95-47-6	<0.00101	0.00101	mg/kg	11.15.19 08.45	U	1
Total Xylenes	1330-20-7	<0.00101	0.00101	mg/kg	11.15.19 08.45	U	1
Total BTEX		<0.00101	0.00101	mg/kg	11.15.19 08.45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	110	%	70-130	11.15.19 08.45	
1,4-Difluorobenzene	540-36-3	91	%	70-130	11.15.19 08.45	

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL33**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-033	Date Collected:	11.13.19 14.30	Sample Depth:	4 ft

Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.15.19 07.30	Basis:	Wet Weight
Seq Number:	3107636				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**115**	10.1	mg/kg	11.15.19 09.19		1

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8015P
Tech:	DTH			% Moisture:	
Analyst:	DTH	Date Prep:	11.14.19 17.00	Basis:	Wet Weight
Seq Number:	3107677				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	11.15.19 09.04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	11.15.19 09.04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	11.15.19 09.04	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	11.15.19 09.04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	139	%	70-135	11.15.19 09.04	**
o-Terphenyl	84-15-1	152	%	70-135	11.15.19 09.04	**

Certificate of Analytical Results 643198

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id:	**MEFL33**	Matrix:	Soil	Date Received:	11.14.19 11.20
Lab Sample Id:	643198-033	Date Collected:	11.13.19 14.30	Sample Depth:	4 ft
Analytical Method:	BTEX by EPA 8021B			Prep Method:	SW5030B
Tech:	MAB			% Moisture:	
Analyst:	MAB	Date Prep:	11.14.19 18.11	Basis:	Wet Weight
Seq Number:	3107600				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000998	0.000998	mg/kg	11.15.19 03.11	U	1
Toluene	108-88-3	<0.000998	0.000998	mg/kg	11.15.19 03.11	U	1
Ethylbenzene	100-41-4	<0.000998	0.000998	mg/kg	11.15.19 03.11	U	1
m,p-Xylenes	179601-23-1	<0.00200	0.00200	mg/kg	11.15.19 03.11	U	1
o-Xylene	95-47-6	<0.000998	0.000998	mg/kg	11.15.19 03.11	U	1
Total Xylenes	1330-20-7	<0.000998	0.000998	mg/kg	11.15.19 03.11	U	1
Total BTEX		<0.000998	0.000998	mg/kg	11.15.19 03.11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	129	%	70-130	11.15.19 03.11	
1,4-Difluorobenzene	540-36-3	91	%	70-130	11.15.19 03.11	

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

Released to Imaging: 8/2/2021 4:21:03 PM

QC Summary 643198

Etech Environmental & Safety Solution, Inc

CVU #47H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107612 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690440-1-BLK — LCS Sample Id: 7690440-1-BKS — LCSD Sample Id: 7690440-1-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	247	99	248	99	90-110	0	20	mg/kg	11.14.19 16:25	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107626 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690442-1-BLK — LCS Sample Id: 7690442-1-BKS — LCSD Sample Id: 7690442-1-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	247	99	249	100	90-110	1	20	mg/kg	11.14.19 19:41	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107636 — Matrix: Solid — Date Prep: 11.15.19
MB Sample Id: 7690444-1-BLK — LCS Sample Id: 7690444-1-BKS — LCSD Sample Id: 7690444-1-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	248	99	249	100	90-110	0	20	mg/kg	11.15.19 08:14	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107612 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643195-002 — MS Sample Id: 643195-002 S — MSD Sample Id: 643195-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	289	198	491	102	487	100	90-110	1	20	mg/kg	11.14.19 17:59	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107612 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643204-001 — MS Sample Id: 643204-001 S — MSD Sample Id: 643204-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	230	200	440	105	435	103	90-110	1	20	mg/kg	11.14.19 16:43	

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

QC Summary 643198

Etech Environmental & Safety Solution, Inc

CVU #47H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107626 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643198-008 — MS Sample Id: 643198-008 S — MSD Sample Id: 643198-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	486	252	672	74	668	73	90-110	1	20	mg/kg	11.15.19 13:17	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107626 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643198-018 — MS Sample Id: 643198-018 S — MSD Sample Id: 643198-018 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	407	202	580	86	592	92	90-110	2	20	mg/kg	11.14.19 21:28	X

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107636 — Matrix: Soil — Date Prep: 11.15.19
Parent Sample Id: 643198-028 — MS Sample Id: 643198-028 S — MSD Sample Id: 643198-028 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	681	199	860	90	868	94	90-110	1	20	mg/kg	11.15.19 08:32	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3107636 — Matrix: Soil — Date Prep: 11.15.19
Parent Sample Id: 643207-005 — MS Sample Id: 643207-005 S — MSD Sample Id: 643207-005 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	275	199	477	102	478	102	90-110	0	20	mg/kg	11.15.19 09:54	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107605 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690422-1-BLK — LCS Sample Id: 7690422-1-BKS — LCSD Sample Id: 7690422-1-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	950	95	966	97	70-135	2	35	mg/kg	11.14.19 23:22	
Diesel Range Organics (DRO)	<50.0	1000	1060	106	1100	110	70-135	4	35	mg/kg	11.14.19 23:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	103		130		131		70-135	%	11.14.19 23:22
o-Terphenyl	114		128		121		70-135	%	11.14.19 23:22

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

QC Summary 643198

Etech Environmental & Safety Solution, Inc

CVU #47H

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107619 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690436-1-BLK — LCS Sample Id: 7690436-1-BKS — LCSD Sample Id: 7690436-1-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	985	99	1140	114	70-135	15	35	mg/kg	11.14.19 23:22	
Diesel Range Organics (DRO)	<50.0	1000	1030	103	1190	119	70-135	14	35	mg/kg	11.14.19 23:22	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		116		130		70-135	%	11.14.19 23:22
o-Terphenyl	129		117		131		70-135	%	11.14.19 23:22

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107677 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690450-1-BLK — LCS Sample Id: 7690450-1-BKS — LCSD Sample Id: 7690450-1-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	983	98	916	92	70-135	7	35	mg/kg	11.15.19 08:24	
Diesel Range Organics (DRO)	<50.0	1000	1090	109	1030	103	70-135	6	35	mg/kg	11.15.19 08:24	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		134		125		70-135	%	11.15.19 08:24
o-Terphenyl	114		120		110		70-135	%	11.15.19 08:24

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107605 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690422-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.14.19 23:02	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107619 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690436-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.14.19 23:02	

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

QC Summary 643198

Etech Environmental & Safety Solution, Inc

CVU #47H

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107677 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690450-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	11.15.19 08:04	

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107605 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643201-010 — MS Sample Id: 643201-010 S — MSD Sample Id: 643201-010 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	840	83	945	95	70-135	12	35	mg/kg	11.15.19 00:23	
Diesel Range Organics (DRO)	<50.3	1010	969	96	1080	109	70-135	11	35	mg/kg	11.15.19 00:23	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	111		128		70-135	%	11.15.19 00:23
o-Terphenyl	101		115		70-135	%	11.15.19 00:23

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107619 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643198-013 — MS Sample Id: 643198-013 S — MSD Sample Id: 643198-013 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)	<50.1	1000	988	99	1040	104	70-135	5	35	mg/kg	11.15.19 00:23	
Diesel Range Organics (DRO)	<50.1	1000	1010	101	1060	106	70-135	5	35	mg/kg	11.15.19 00:23	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	112		117		70-135	%	11.15.19 00:23
o-Terphenyl	108		110		70-135	%	11.15.19 00:23

Analytical Method: TPH By SW8015 Mod — Prep Method: SW8015P
Seq Number: 3107677 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643198-033 — MS Sample Id: 643198-033 S — MSD Sample Id: 643198-033 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	917	91	905	91	70-135	1	35	mg/kg	11.15.19 09:24	
Diesel Range Organics (DRO)	<50.3	1010	1040	103	1020	102	70-135	2	35	mg/kg	11.15.19 09:24	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	123		110		70-135	%	11.15.19 09:24
o-Terphenyl	109		112		70-135	%	11.15.19 09:24

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

QC Summary 643198

Etech Environmental & Safety Solution, Inc

CVU #47H

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3107596 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690411-1-BLK — LCS Sample Id: 7690411-1-BKS — LCSD Sample Id: 7690411-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00100	0.100	0.0855	86	0.0928	93	70-130	8	35	mg/kg	11.14.19 22:01	
Toluene	<0.00100	0.100	0.0852	85	0.0919	92	70-130	8	35	mg/kg	11.14.19 22:01	
Ethylbenzene	<0.00100	0.100	0.0848	85	0.0909	91	71-129	7	35	mg/kg	11.14.19 22:01	
m,p-Xylenes	<0.00200	0.200	0.180	90	0.192	96	70-135	6	35	mg/kg	11.14.19 22:01	
o-Xylene	<0.00100	0.100	0.0908	91	0.0975	98	71-133	7	35	mg/kg	11.14.19 22:01	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		102		104		70-130	%	11.14.19 22:01
4-Bromofluorobenzene	106		115		112		70-130	%	11.14.19 22:01

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3107600 — Matrix: Solid — Date Prep: 11.14.19
MB Sample Id: 7690414-1-BLK — LCS Sample Id: 7690414-1-BKS — LCSD Sample Id: 7690414-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	0.000930	0.100	0.120	120	0.118	118	70-130	2	35	mg/kg	11.15.19 01:15	
Toluene	<0.00100	0.100	0.119	119	0.116	116	70-130	3	35	mg/kg	11.15.19 01:15	
Ethylbenzene	<0.00100	0.100	0.121	121	0.117	117	71-129	3	35	mg/kg	11.15.19 01:15	
m,p-Xylenes	<0.00200	0.200	0.242	121	0.235	118	70-135	3	35	mg/kg	11.15.19 01:15	
o-Xylene	<0.00100	0.100	0.121	121	0.119	119	71-133	2	35	mg/kg	11.15.19 01:15	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		99		100		70-130	%	11.15.19 01:15
4-Bromofluorobenzene	122		120		130		70-130	%	11.15.19 01:15

Analytical Method: BTEX by EPA 8021B — Prep Method: SW5030B
Seq Number: 3107596 — Matrix: Soil — Date Prep: 11.14.19
Parent Sample Id: 643198-020 — MS Sample Id: 643198-020 S — MSD Sample Id: 643198-020 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00101	0.101	0.0758	75	0.0828	82	70-130	9	35	mg/kg	11.14.19 22:39	
Toluene	0.00808	0.101	0.0736	65	0.0795	71	70-130	8	35	mg/kg	11.14.19 22:39	X
Ethylbenzene	0.00808	0.101	0.0889	80	0.0744	66	71-129	18	35	mg/kg	11.14.19 22:39	X
m,p-Xylenes	0.00808	0.202	0.155	73	0.168	79	70-135	8	35	mg/kg	11.14.19 22:39	
o-Xylene	<0.00101	0.101	0.0794	79	0.0858	85	71-133	8	35	mg/kg	11.14.19 22:39	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		104		70-130	%	11.14.19 22:39
4-Bromofluorobenzene	111		115		70-130	%	11.14.19 22:39

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

QC Summary 643198

Etech Environmental & Safety Solution, Inc

CVU #47H

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

Seq Number: 3107600 Matrix: Soil Date Prep: 11.14.19

Parent Sample Id: 643198-033 MS Sample Id: 643198-033 S MSD Sample Id: 643198-033 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000992	0.0992	0.0801	81	0.0712	72	70-130	12	35	mg/kg	11.15.19 01:55	
Toluene	<0.000992	0.0992	0.0700	71	0.0875	88	70-130	22	35	mg/kg	11.15.19 01:55	
Ethylbenzene	<0.000992	0.0992	0.0774	78	0.0785	79	71-129	1	35	mg/kg	11.15.19 01:55	
m,p-Xylenes	<0.00198	0.198	0.166	84	0.147	74	70-135	12	35	mg/kg	11.15.19 01:55	
o-Xylene	<0.000992	0.0992	0.0998	101	0.0927	93	71-133	7	35	mg/kg	11.15.19 01:55	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		95		70-130	%	11.15.19 01:55
4-Bromofluorobenzene	122		122		70-130	%	11.15.19 01:55

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	

Page 404 of 650

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: 643198

www.xenco.com Page 1 of 4

Project Manager:	daniel dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental	Company Name:	Chevron Environmental Management
Address:	3100 Plains Hwy	Address:	1500 Louisiana St. Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	832-854-5601	Email:	jmichelson@chevron.com; danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: (yes)	
Sampler's Name:	Daniel Dominguez	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	2.0	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:	33

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	BTEX	TPH
MEFL1	Soil	13-Nov-19	11:50	4	1	X	X	X
MEFL2	Soil	13-Nov-19	11:55	4	1	X	X	X
MEFL3	Soil	13-Nov-19	12:00	4	1	X	X	X
MEFL4	Soil	13-Nov-19	12:05	4	1	X	X	X
MEFL5	Soil	13-Nov-19	12:10	4	1	X	X	X
MEFL6	Soil	13-Nov-19	12:15	4	1	X	X	X
MEFL7	Soil	13-Nov-19	12:20	4	1	X	X	X
MEFL8	Soil	13-Nov-19	12:25	4	1	X	X	X
MEFL9	Soil	13-Nov-19	12:30	4	1	X	X	X
MEFL10	Soil	13-Nov-19	12:35	4	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
	Courtney	11/14/19 11:20	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 85 of 89
Released to Imaging: 8/2/2021 4:21:03 PM

Page 405 of 650

Chain of Custody

Work Order No: 643198

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:	daniel dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental	Company Name:	Chevron Environmental Management
Address:	3100 Plains Hwy	Address:	1500 Louisiana St. Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	832-854-5601	Email:	jmichelson@chevron.com; danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H
Project Number:	
P.O. Number:	
Sampler's Name:	Daniel Dominguez

Turn Around

Routine ☐
Rush: yes
Due Date:

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

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	Chloride	BTEX	TPH	Sample Comments
MEFL11	Soil	13-Nov-19	12:40	4	1	X	X	X	
MEFL12	Soil	13-Nov-19	12:45	4	1	X	X	X	
MEFL13	Soil	13-Nov-19	12:50	4	1	X	X	X	
MEFL14	Soil	13-Nov-19	12:55	4	1	X	X	X	
MEFL15	Soil	13-Nov-19	13:00	4	1	X	X	X	
MEFL16	Soil	13-Nov-19	13:05	4	1	X	X	X	
MEFL17	Soil	13-Nov-19	13:10	4	1	X	X	X	
MEFL18	Soil	13-Nov-19	13:15	4	1	X	X	X	
MEFL19	Soil	13-Nov-19	13:20	4	1	X	X	X	
MEFL20	Soil	13-Nov-19	13:25	4	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr 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
		11/14/19 11:20	2		
			4		
			6		

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 86 of 89
Released to Imaging: 8/2/2021 4:21:03 PM

Page 406 of 650

Chain of Custody

Work Order No: 643198

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 3 of 4

Project Manager:	daniel dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental	Company Name:	Chevron Environmental Management
Address:	3100 Plains Hwy	Address:	1500 Louisiana St. Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	832-854-5601	Email:	jmichelson@chevron.com; danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: yes	
Sampler's Name:	Daniel Dominguez	Due Date:	

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	BTEX	TPH
MEFL21	Soil	13-Nov-19	13:30	4	1	X	X	X
MEFL22	Soil	13-Nov-19	13:35	4	1	X	X	X
MEFL23	Soil	13-Nov-19	13:40	4	1	X	X	X
MEFL24	Soil	13-Nov-19	13:45	4	1	X	X	X
MEFL25	Soil	13-Nov-19	13:50	4	1	X	X	X
MEFL26	Soil	13-Nov-19	13:55	4	1	X	X	X
MEFL27	Soil	13-Nov-19	14:00	4	1	X	X	X
MEFL28	Soil	13-Nov-19	14:05	4	1	X	X	X
MEFL29	Soil	13-Nov-19	14:10	4	1	X	X	X
MEFL30	Soil	13-Nov-19	14:15	4	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
		11/14/19 11:20	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 87 of 89

Page 407 of 650

Chain of Custody

Work Order No: 643198

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:	daniel dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental	Company Name:	Chevron Environmental Management
Address:	3100 Plains Hwy	Address:	1500 Louisiana St. Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	832-854-5601	Email:	jmichelson@chevron.com; danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: yes	
Sampler's Name:	Daniel Dominguez	Due Date:	

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	BTEX	TPH
MEFL31	Soil	13-Nov-19	14:20	4	1	X	X	X
MEFL32	Soil	13-Nov-19	14:25	4	1	X	X	X
MEFL33	Soil	13-Nov-19	14:30	4	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		11/14/19 11:20	2		
3			4		
5			6		

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 88 of 89
Released to Imaging: 8/2/2021 4:21:03 PM

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 11/14/2019 11:20:00 AM

Work Order #: 643198

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

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

Analyst:

PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 11/14/2019

Checklist reviewed by: Jessica Kramer Date: 11/15/2019

Analytical Report 643497

for

Etech Environmental & Safety Solution, Inc

Project Manager: Daniel Dominguez

CVU #47H

1130

19-NOV-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

19-NOV-19

Project Manager: **Daniel Dominguez**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **643497**
CVU #47H
Project Address: Rural Lea

Daniel Dominguez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 643497. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 643497 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Sample Cross Reference 643497

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Floor #6d	S	11-15-19 11:00	4 ft	643497-001
Floor #7c	S	11-15-19 11:15	4 ft	643497-002

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: CVU #47H

Project ID: *1130*
Work Order Number(s): *643497*

Report Date: *19-NOV-19*
Date Received: *11/18/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results

643497

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **Floor #6d** Matrix: Soil Sample Depth: 4 ft

Lab Sample Id: 643497-001 Date Collected: 11.15.19 11.00 Date Received: 11.18.19 11.32

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107930 Date Prep: 11.18.19 14.00

Prep seq: 7690515

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.18.19 18:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.18.19 18:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.18.19 18:23	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.18.19 18:23	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	111	70 - 135	%		
o-Terphenyl	109	70 - 135	%		

Sample Id: **Floor #7c** Matrix: Soil Sample Depth: 4 ft

Lab Sample Id: 643497-002 Date Collected: 11.15.19 11.15 Date Received: 11.18.19 11.32

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107930 Date Prep: 11.18.19 14.00

Prep seq: 7690515

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.18.19 18:44	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.18.19 18:44	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.18.19 18:44	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.18.19 18:44	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	103	70 - 135	%		
o-Terphenyl	103	70 - 135	%		

Certificate of Analytical Results

643497

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **7690515-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7690515-1-BLK Date Collected: Date Received:

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3107930 Date Prep: 11.18.19 10.00

Prep seq: 7690515

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.18.19 11:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.18.19 11:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.18.19 11:47	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	99	70 - 135	%		
o-Terphenyl	101	70 - 135	%		

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

Form 2 - Surrogate Recoveries

Project Name: CVU #47H

Work Orders : 643497,

Project ID: 1130

Lab Batch #: 3107930 **Sample:** 7690515-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/18/19 11:47

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.9	100	99	70-135	
o-Terphenyl	50.6	50.0	101	70-135	

Lab Batch #: 3107930 **Sample:** 7690515-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/18/19 12:08

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	103	100	103	70-135	
o-Terphenyl	42.2	50.0	84	70-135	

Lab Batch #: 3107930 **Sample:** 7690515-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/18/19 12:29

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	49.7	50.0	99	70-135	

Lab Batch #: 3107930 **Sample:** 643322-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/18/19 13:11

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	99.9	117	70-135	
o-Terphenyl	52.2	50.0	104	70-135	

Lab Batch #: 3107930 **Sample:** 643322-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/18/19 13:32

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	116	100	116	70-135	
o-Terphenyl	52.2	50.0	104	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

BS / BSD Recoveries

Project Name: CVU #47H

Work Order #: 643497 **Project ID:** 1130

Analyst: ARM **Date Prepared:** 11/18/2019 **Date Analyzed:** 11/18/2019

Lab Batch ID: 3107930 **Sample:** 7690515-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1030	103	1000	1050	105	2	70-135	20	
Diesel Range Organics (DRO)	<50.0	1000	994	99	1000	1040	104	5	70-135	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: CVU #47H

Work Order # : 643497 **Project ID:** 1130

Lab Batch ID: 3107930 **QC- Sample ID:** 643322-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/18/2019 **Date Prepared:** 11/18/2019 **Analyst:** ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	999	1110	111	1000	1130	113	2	70-135	20	
Diesel Range Organics (DRO)	40.0	999	1130	109	1000	1110	107	2	70-135	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable

N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 419 of 650

Chain of Custody

Work Order No: 04349

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

Project Manager:	Daniel Dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental & Safety Solutions, Inc.	Company Name:	Chevron Environmental Management
Address:	P.O. Box 301	Address:	1500 Louisiana St Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	(575) 396-2378 Email:	danield@etechenv.com	

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:	11130	Routine:	☐
Project Location	Rural Lea	Rush:	x
Sampler's Name:	Dustin Crockett	Due Date:	ASAP
PO #:	UWDCP-M9004-SFH - CVU 47H - 2019		

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.1/0.5	Thermometer ID	T8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+0.2	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

Preservative Codes

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

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	TPH (8015M)	Sample Comments
Floor # 6d	Soil	11/15/2019	11:00	4'	1/NO	x	
Floor # 7c	Soil	11/15/2019	11:15	4'	1/NO	x	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr 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	Stephanie Rodi/08	11/15/19 15:23	2	Stephanie Rodi/08	11/15/19 15:25
3			4		11/18/19 1132
5			6		

Revised Date 101419 Rev. 2019.1

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 11 of 11
Released to Imaging: 8/2/2021 4:21:03 PM

Analytical Report 644625

for

Etech Environmental & Safety Solution, Inc

Project Manager: Daniel Dominguez

CVU #47H

02-DEC-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

02-DEC-19

Project Manager: **Daniel Dominguez**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **644625**
CVU #47H
Project Address:

Daniel Dominguez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 644625. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 644625 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Sample Cross Reference 644625

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
WENT1	S	11-25-19 08:00	3	644625-001
WENT2	S	11-25-19 09:00	3	644625-002
WENT3	S	11-25-19 10:00	3	644625-003
WEET1	S	11-25-19 11:00	3	644625-004
WEET2	S	11-25-19 12:00	3	644625-005
WEST1	S	11-25-19 13:00	3	644625-006
WEST2	S	11-25-19 14:00	3	644625-007
WEWT1	S	11-26-19 10:00	3	644625-008
WEWT1b	S	11-26-19 10:30	3	644625-009
WEWT1c	S	11-26-19 11:00	3	644625-010
WEWT1d	S	11-26-19 11:30	3	644625-011
WEWT1e	S	11-26-19 12:00	3	644625-012
WEF1	S	11-26-19 09:30	4	644625-013
WEF2	S	11-26-19 09:35	4	644625-014
WEF3	S	11-26-19 09:40	4	644625-015
WEF4	S	11-26-19 09:45	4	644625-016

Version: 1.%

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: CVU #47H

Project ID:
Work Order Number(s): *644625*

Report Date: *02-DEC-19*
Date Received: *11/27/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results
644625

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WENT1** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-001 Date Collected: 11.25.19 08.00 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109005 Date Prep: 11.27.19 12.35

Prep seq: 7691338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**135**	4.97	0.853	mg/kg	11.27.19 16:59		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.27.19 17:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.27.19 17:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.27.19 17:47	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.27.19 17:47	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	117	70 - 135	%		
o-Terphenyl	116	70 - 135	%		

Certificate of Analytical Results
644625

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WENT2** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-002 Date Collected: 11.25.19 09.00 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109005 Date Prep: 11.27.19 12.35

Prep seq: 7691338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**378**	5.04	0.865	mg/kg	11.27.19 17:05		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.27.19 18:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.27.19 18:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.27.19 18:43	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.27.19 18:43	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	114	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Certificate of Analytical Results
644625

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WENT3** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-003 Date Collected: 11.25.19 10.00 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109005 Date Prep: 11.27.19 12.35

Prep seq: 7691338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**20.2**	5.02	0.862	mg/kg	11.27.19 17:25		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.27.19 19:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.27.19 19:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.27.19 19:02	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.27.19 19:02	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	113	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Certificate of Analytical Results
644625

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WEET1** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-004 Date Collected: 11.25.19 11.00 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109005 Date Prep: 11.27.19 12.35

Prep seq: 7691338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**233**	4.99	0.857	mg/kg	11.27.19 17:32		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	11.27.19 19:21	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	11.27.19 19:21	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	11.27.19 19:21	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	11.27.19 19:21	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	113	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Certificate of Analytical Results
644625

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WEET2** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-005 Date Collected: 11.25.19 12.00 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109005 Date Prep: 11.27.19 12.35

Prep seq: 7691338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**135**	5.00	0.858	mg/kg	11.27.19 17:38		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.27.19 19:39	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.27.19 19:39	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.27.19 19:39	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.27.19 19:39	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	117	70 - 135	%		
o-Terphenyl	115	70 - 135	%		

Certificate of Analytical Results
644625

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WEST1** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-006 Date Collected: 11.25.19 13.00 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109005 Date Prep: 11.27.19 12.35

Prep seq: 7691338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**468**	5.04	0.865	mg/kg	11.27.19 17:45		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.27.19 19:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.27.19 19:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.27.19 19:58	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.27.19 19:58	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	110	70 - 135	%		

Certificate of Analytical Results
644625

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WEST2** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-007 Date Collected: 11.25.19 14.00 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109005 Date Prep: 11.27.19 12.35

Prep seq: 7691338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**225**	24.9	4.27	mg/kg	11.27.19 17:52		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.27.19 20:17	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.27.19 20:17	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.27.19 20:17	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.27.19 20:17	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	115	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Certificate of Analytical Results

644625

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **WEWT1** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-008 Date Collected: 11.26.19 10.00 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109005 Date Prep: 11.27.19 12.35

Prep seq: 7691338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**304**	5.02	0.862	mg/kg	11.27.19 17:58		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	11.27.19 20:35	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	11.27.19 20:35	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	11.27.19 20:35	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	11.27.19 20:35	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	113	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Certificate of Analytical Results

644625

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **WEWT1b** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-009 Date Collected: 11.26.19 10.30 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109005 Date Prep: 11.27.19 12.35

Prep seq: 7691338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**732**	4.96	0.852	mg/kg	11.27.19 18:05		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.27.19 20:54	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.27.19 20:54	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.27.19 20:54	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.27.19 20:54	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	110	70 - 135	%		

Certificate of Analytical Results

644625

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **WEWT1c** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-010 Date Collected: 11.26.19 11.00 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109007 Date Prep: 11.27.19 15.10

Prep seq: 7691357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**794**	4.99	0.857	mg/kg	11.27.19 16:21		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.27.19 21:13	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.27.19 21:13	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.27.19 21:13	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.27.19 21:13	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	113	70 - 135	%		
o-Terphenyl	111	70 - 135	%		

Certificate of Analytical Results

644625

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **WEWT1d** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-011 Date Collected: 11.26.19 11.30 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109007 Date Prep: 11.27.19 15.10

Prep seq: 7691357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**469**	4.99	0.857	mg/kg	11.27.19 16:31		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	11.27.19 21:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	11.27.19 21:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	11.27.19 21:50	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	11.27.19 21:50	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	109	70 - 135	%		
o-Terphenyl	107	70 - 135	%		

Certificate of Analytical Results
644625

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WEWT1e** Matrix: Soil Sample Depth: 3

Lab Sample Id: 644625-012 Date Collected: 11.26.19 12.00 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109007 Date Prep: 11.27.19 15.10

Prep seq: 7691357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**90.9**	5.02	0.862	mg/kg	11.27.19 20:13		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.27.19 22:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.27.19 22:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.27.19 22:08	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.27.19 22:08	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	114	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Certificate of Analytical Results
644625

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WEF1** Matrix: Soil Sample Depth: 4

Lab Sample Id: 644625-013 Date Collected: 11.26.19 09.30 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109007 Date Prep: 11.27.19 15.10

Prep seq: 7691357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**2040**	24.8	4.26	mg/kg	11.27.19 16:40		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	15.0	mg/kg	11.27.19 22:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	15.0	mg/kg	11.27.19 22:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	15.0	mg/kg	11.27.19 22:27	U	1
Total TPH	PHC635	<49.9		15.0	mg/kg	11.27.19 22:27	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	107	70 - 135	%		

Certificate of Analytical Results

644625

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **WEF2** Matrix: Soil Sample Depth: 4

Lab Sample Id: 644625-014 Date Collected: 11.26.19 09.35 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109007 Date Prep: 11.27.19 15.10

Prep seq: 7691357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**2340**	25.1	4.30	mg/kg	11.27.19 16:49		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.27.19 22:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.27.19 22:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.27.19 22:46	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.27.19 22:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	116	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Certificate of Analytical Results
644625

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WEF3** Matrix: Soil Sample Depth: 4

Lab Sample Id: 644625-015 Date Collected: 11.26.19 09.40 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109007 Date Prep: 11.27.19 15.10

Prep seq: 7691357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**751**	4.98	0.855	mg/kg	11.27.19 17:17		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	14.9	mg/kg	11.27.19 23:05	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	14.9	mg/kg	11.27.19 23:05	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	14.9	mg/kg	11.27.19 23:05	U	1
Total TPH	PHC635	<49.8		14.9	mg/kg	11.27.19 23:05	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	112	70 - 135	%		
o-Terphenyl	108	70 - 135	%		

Certificate of Analytical Results
644625

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47H

Sample Id: **WEF4** Matrix: Soil Sample Depth: 4

Lab Sample Id: 644625-016 Date Collected: 11.26.19 09.45 Date Received: 11.27.19 11.53

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109007 Date Prep: 11.27.19 15.10

Prep seq: 7691357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**1140**	25.0	4.29	mg/kg	11.27.19 17:26		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.27.19 23:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.27.19 23:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.27.19 23:24	U	1
Total TPH	PHC635	<50.0		15.0	mg/kg	11.27.19 23:24	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	116	70 - 135	%		
o-Terphenyl	112	70 - 135	%		

Certificate of Analytical Results

644625

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47H

Sample Id: **7691338-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7691338-1-BLK Date Collected: Date Received:

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109005 Date Prep: 11.27.19 12.35

Prep seq: 7691338

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	11.27.19 14:46	U	1

Sample Id: **7691346-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7691346-1-BLK Date Collected: Date Received:

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: ARM % Moist: Tech: DVM

Seq Number: 3108996 Date Prep: 11.27.19 14.00

Prep seq: 7691346

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	15.0	mg/kg	11.27.19 16:50	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	15.0	mg/kg	11.27.19 16:50	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	15.0	mg/kg	11.27.19 16:50	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	125	70 - 135	%		
o-Terphenyl	124	70 - 135	%		

Sample Id: **7691357-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7691357-1-BLK Date Collected: Date Received:

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109007 Date Prep: 11.27.19 15.10

Prep seq: 7691357

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	11.27.19 15:26	U	1

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

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

Form 2 - Surrogate Recoveries

Project Name: CVU #47H

Work Orders : 644625,

Project ID:

Lab Batch #: 3108996 **Sample:** 7691346-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/27/19 16:50

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	125	100	125	70-135	
o-Terphenyl	61.9	50.0	124	70-135	

Lab Batch #: 3108996 **Sample:** 7691346-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/27/19 17:09

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	100	127	70-135	
o-Terphenyl	56.4	50.0	113	70-135	

Lab Batch #: 3108996 **Sample:** 7691346-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/27/19 17:28

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	61.0	50.0	122	70-135	

Lab Batch #: 3108996 **Sample:** 644625-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/27/19 18:05

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	127	99.8	127	70-135	
o-Terphenyl	60.1	49.9	120	70-135	

Lab Batch #: 3108996 **Sample:** 644625-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/27/19 18:24

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	99.6	130	70-135	
o-Terphenyl	60.2	49.8	121	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Version: 1.%

BS / BSD Recoveries

Project Name: CVU #47H

Work Order #: 644625 **Project ID:**

Analyst: SPC **Date Prepared:** 11/27/2019 **Date Analyzed:** 11/27/2019

Lab Batch ID: 3109005 **Sample:** 7691338-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.858	250	247	99	250	246	98	0	90-110	20	

Analyst: SPC **Date Prepared:** 11/27/2019 **Date Analyzed:** 11/27/2019

Lab Batch ID: 3109007 **Sample:** 7691357-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	252	101	250	253	101	0	90-110	20	

Analyst: ARM **Date Prepared:** 11/27/2019 **Date Analyzed:** 11/27/2019

Lab Batch ID: 3108996 **Sample:** 7691346-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	1000	1150	115	1000	1170	117	2	70-135	20	
Diesel Range Organics (DRO)	<15.0	1000	1060	106	1000	1190	119	12	70-135	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Version: 1.%

Form 3 - MS / MSD Recoveries

Project Name: CVU #47H

Work Order # : 644625 **Project ID:**

Lab Batch ID: 3109005 **QC- Sample ID:** 644597-016 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/27/2019 **Date Prepared:** 11/27/2019 **Analyst:** SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	22.5	250	274	101	250	274	101	0	90-110	20	

Lab Batch ID: 3109005 **QC- Sample ID:** 644607-008 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/27/2019 **Date Prepared:** 11/27/2019 **Analyst:** SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	30.7	252	285	101	252	290	103	2	90-110	20	

Lab Batch ID: 3109007 **QC- Sample ID:** 644625-012 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/27/2019 **Date Prepared:** 11/27/2019 **Analyst:** SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	90.9	251	351	104	251	341	100	3	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Form 3 - MS / MSD Recoveries

Project Name: CVU #47H

Work Order # : 644625 **Project ID:**

Lab Batch ID: 3109007 **QC- Sample ID:** 644657-004 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/27/2019 **Date Prepared:** 11/27/2019 **Analyst:** SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	381	250	615	94	250	617	94	0	90-110	20	

Lab Batch ID: 3108996 **QC- Sample ID:** 644625-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/27/2019 **Date Prepared:** 11/27/2019 **Analyst:** ARM

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<15.0	998	1180	118	996	1150	115	3	70-135	20	
Diesel Range Organics (DRO)	<15.0	998	1110	111	996	1120	112	1	70-135	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 446 of 650

Chain of Custody

Work Order No: 604625

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:	daniel dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental	Company Name:	Chevron Environmental Management
Address:	3100 Plains Hwy	Address:	1500 Louisiana St. Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	832-854-5601	Email:	jmichelson@chevron.com; danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: yes	
Sampler's Name:	Daniel Dominguez	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.4	Thermometer ID		
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	BTEX	TPH	Work Order Notes / Sample Comments
WENT1	Soil	25-Nov-19	8:00	3	1	X		X	
WENT2	Soil	25-Nov-19	9:00	3	1	X		X	
WENT3	Soil	25-Nov-19	10:00	3	1	X		X	
WEET1	Soil	25-Nov-19	11:00	3	1	X		X	
WEET2	Soil	25-Nov-19	12:00	3	1	X		X	
WEST1	Soil	25-Nov-19	13:00	3	1	X		X	
WEST2	Soil	25-Nov-19	14:00	3	1	X		X	
WEWT1	Soil	26-Nov-19	10:00	3	1	X		X	
WEWT1b	Soil	26-Nov-19	10:30	3	1	X		X	
WEWT1c	Soil	26-Nov-19	11:00	3	1	X		X	

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		Natalie Rivera	11/26 4:05	2 N.R.		1153
3				4		11/27
5				6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Final 1.000
Page 27 of 29
Released to Imaging: 8/2/2021 4:21:03 PM

Page 447 of 650

Chain of Custody

Work Order No: 1044625

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

Project Manager:	daniel dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental	Company Name:	Chevron Environmental Management
Address:	3100 Plains Hwy	Address:	1500 Louisiana St. Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	832-854-5601	Email:	jmichelson@chevron.com; danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: yes	
Sampler's Name:	Daniel Dominguez	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.1	Thermometer ID		
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:		
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	BTEX	TPH
WEWT1d	Soil	26-Nov-19	11:30	3	1	X		X
WEWT1e	Soil	26-Nov-19	12:00	3	1	X		X
WEF1	Soil	26-Nov-19	9:30	4	1	X		X
WEF2	Soil	26-Nov-19	9:35	4	1	X		X
WEF3	Soil	26-Nov-19	9:40	4	1	X		X
WEF4	Soil	26-Nov-19	9:45	4	1	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	Natalie Rivera	11/26 4:05	2		1153
3			4		11/27
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 28 of 29

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 11/27/2019 11:53:00 AM

Work Order #: 644625

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

Temperature Measuring device used : R8

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Brianna Teel Date: 11/27/2019

Brianna Teel

Checklist reviewed by: Jessica Kramer Date: 11/27/2019

Jessica Kramer

Analytical Report 645024

for

Etech Environmental & Safety Solution, Inc

Project Manager: Daniel Dominguez

CVU #47 H

06-DEC-19

Collected By: Client



1089 N Canal Street
Carlsbad, NM 88220

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

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

06-DEC-19

Project Manager: **Daniel Dominguez**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **645024**
CVU #47 H
Project Address:

Daniel Dominguez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 645024. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645024 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

Sample Cross Reference 645024

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
WE F5	S	12-03-19 09:00	4 ft	645024-001
WE F6	S	12-03-19 09:05	4 ft	645024-002
WE F7	S	12-03-19 09:10	4 ft	645024-003
WE F8	S	12-03-19 13:00	4 ft	645024-004
WE F9	S	12-03-19 13:10	4 ft	645024-005
WENSW	S	12-03-19 09:30	2 ft	645024-006
WEESW	S	12-03-19 09:35	2 ft	645024-007
WESSW	S	12-03-19 09:40	2 ft	645024-008
WEWSW1	S	12-03-19 13:30	2 ft	645024-009
WEWSW2	S	12-03-19 13:40	2 ft	645024-010

Version: 1.%

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: CVU #47 H

Project ID:
Work Order Number(s): *645024*

Report Date: *06-DEC-19*
Date Received: *12/04/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3109456 BTEX by EPA 8021B
Soil samples were not received in Terracore kits and therefore were prepared by method 5030.

Batch: LBA-3109545 TPH by SW8015 Mod
Surrogate o-Terphenyl recovered above QC limits. Matrix interferences is suspected; data confirmed by re-analysis.
Samples affected are: 645024-005.

Certificate of Analytical Results

645024

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id: **WE F5** Matrix: Soil Sample Depth: 4 ft

Lab Sample Id: 645024-001 Date Collected: 12.03.19 09.00 Date Received: 12.04.19 10.32

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109487 Date Prep: 12.04.19 20.58

Prep seq: 7691691

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**753**	50.2	1.78	mg/kg	12.05.19 08:50		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3109545 Date Prep: 12.05.19 13.00

Prep seq: 7691776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	13.9	mg/kg	12.05.19 13:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	11.5	mg/kg	12.05.19 13:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	11.5	mg/kg	12.05.19 13:06	U	1
Total TPH	PHC635	<50.2		11.5	mg/kg	12.05.19 13:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	92	70 - 135	%		
o-Terphenyl	98	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109456 Date Prep: 12.04.19 15.56

Prep seq: 7691695

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00201	0.00201	0.000487	mg/kg	12.05.19 01:29	U	1
Toluene	108-88-3	<0.00201	0.00201	0.000530	mg/kg	12.05.19 01:29	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	0.000408	mg/kg	12.05.19 01:29	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	0.000757	mg/kg	12.05.19 01:29	U	1
o-Xylene	95-47-6	<0.00201	0.00201	0.000405	mg/kg	12.05.19 01:29	U	1
Total Xylenes	1330-20-7	<0.00201		0.000405	mg/kg	12.05.19 01:29	U	
Total BTEX		<0.00201		0.000405	mg/kg	12.05.19 01:29	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	70 - 130	%		
4-Bromofluorobenzene	101	70 - 130	%		

Certificate of Analytical Results
645024

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id: **WE F6** Matrix: Soil Sample Depth: 4 ft

Lab Sample Id: 645024-002 Date Collected: 12.03.19 09.05 Date Received: 12.04.19 10.32

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109487 Date Prep: 12.04.19 20.58

Prep seq: 7691691

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**226**	49.9	1.77	mg/kg	12.05.19 09:07		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3109545 Date Prep: 12.05.19 13.00

Prep seq: 7691776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	13.9	mg/kg	12.05.19 13:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	11.5	mg/kg	12.05.19 13:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	11.5	mg/kg	12.05.19 13:26	U	1
Total TPH	PHC635	<50.2		11.5	mg/kg	12.05.19 13:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	122	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109456 Date Prep: 12.04.19 15.56

Prep seq: 7691695

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00202	0.00202	0.000489	mg/kg	12.05.19 01:46	U	1
Toluene	108-88-3	<0.00202	0.00202	0.000532	mg/kg	12.05.19 01:46	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	0.000409	mg/kg	12.05.19 01:46	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	0.000760	mg/kg	12.05.19 01:46	U	1
o-Xylene	95-47-6	<0.00202	0.00202	0.000406	mg/kg	12.05.19 01:46	U	1
Total Xylenes	1330-20-7	<0.00202		0.000406	mg/kg	12.05.19 01:46	U	
Total BTEX		<0.00202		0.000406	mg/kg	12.05.19 01:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	95	70 - 130	%		
4-Bromofluorobenzene	103	70 - 130	%		

Certificate of Analytical Results

645024

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id: **WE F7** Matrix: Soil Sample Depth: 4 ft

Lab Sample Id: 645024-003 Date Collected: 12.03.19 09.10 Date Received: 12.04.19 10.32

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109487 Date Prep: 12.04.19 20.58

Prep seq: 7691691

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**567**	99.4	3.52	mg/kg	12.05.19 09:13		10

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3109545 Date Prep: 12.05.19 13.00

Prep seq: 7691776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	13.9	mg/kg	12.05.19 13:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	11.5	mg/kg	12.05.19 13:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	11.5	mg/kg	12.05.19 13:46	U	1
Total TPH	PHC635	<50.2		11.5	mg/kg	12.05.19 13:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	114	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109456 Date Prep: 12.04.19 15.56

Prep seq: 7691695

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00202	0.00202	0.000490	mg/kg	12.05.19 02:03	U	1
Toluene	108-88-3	<0.00202	0.00202	0.000533	mg/kg	12.05.19 02:03	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	0.000410	mg/kg	12.05.19 02:03	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	0.000761	mg/kg	12.05.19 02:03	U	1
o-Xylene	95-47-6	<0.00202	0.00202	0.000407	mg/kg	12.05.19 02:03	U	1
Total Xylenes	1330-20-7	<0.00202		0.000407	mg/kg	12.05.19 02:03	U	
Total BTEX		<0.00202		0.000407	mg/kg	12.05.19 02:03	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	95	70 - 130	%		
4-Bromofluorobenzene	100	70 - 130	%		

Certificate of Analytical Results

645024

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id: **WE F8** Matrix: Soil Sample Depth: 4 ft

Lab Sample Id: 645024-004 Date Collected: 12.03.19 13.00 Date Received: 12.04.19 10.32

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109487 Date Prep: 12.04.19 20.58

Prep seq: 7691691

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**716**	50.5	1.79	mg/kg	12.05.19 09:19		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3109545 Date Prep: 12.05.19 13.00

Prep seq: 7691776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	13.9	mg/kg	12.05.19 13:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	11.5	mg/kg	12.05.19 13:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	11.5	mg/kg	12.05.19 13:46	U	1
Total TPH	PHC635	<50.2		11.5	mg/kg	12.05.19 13:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	105	70 - 135	%		
o-Terphenyl	121	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109456 Date Prep: 12.04.19 15.56

Prep seq: 7691695

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00201	0.00201	0.000488	mg/kg	12.05.19 02:21	U	1
Toluene	108-88-3	<0.00201	0.00201	0.000531	mg/kg	12.05.19 02:21	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	0.000409	mg/kg	12.05.19 02:21	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	0.000758	mg/kg	12.05.19 02:21	U	1
o-Xylene	95-47-6	<0.00201	0.00201	0.000406	mg/kg	12.05.19 02:21	U	1
Total Xylenes	1330-20-7	<0.00201		0.000406	mg/kg	12.05.19 02:21	U	
Total BTEX		<0.00201		0.000406	mg/kg	12.05.19 02:21	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	96	70 - 130	%		
4-Bromofluorobenzene	103	70 - 130	%		

Certificate of Analytical Results
645024

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id: **WE F9** Matrix: Soil Sample Depth: 4 ft

Lab Sample Id: 645024-005 Date Collected: 12.03.19 13.10 Date Received: 12.04.19 10.32

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109487 Date Prep: 12.04.19 20.58

Prep seq: 7691691

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**543**	50.1	1.77	mg/kg	12.05.19 09:25		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3109545 Date Prep: 12.05.19 13.00

Prep seq: 7691776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.3	50.3	14.0	mg/kg	12.05.19 14:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.3	50.3	11.5	mg/kg	12.05.19 14:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.3	50.3	11.5	mg/kg	12.05.19 14:06	U	1
Total TPH	PHC635	<50.3		11.5	mg/kg	12.05.19 14:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	128	70 - 135	%		
o-Terphenyl	138	70 - 135	%		**

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109456 Date Prep: 12.04.19 15.56

Prep seq: 7691695

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00201	0.00201	0.000488	mg/kg	12.05.19 02:38	U	1
Toluene	108-88-3	<0.00201	0.00201	0.000531	mg/kg	12.05.19 02:38	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	0.000409	mg/kg	12.05.19 02:38	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	0.000758	mg/kg	12.05.19 02:38	U	1
o-Xylene	95-47-6	<0.00201	0.00201	0.000406	mg/kg	12.05.19 02:38	U	1
Total Xylenes	1330-20-7	<0.00201		0.000406	mg/kg	12.05.19 02:38	U	
Total BTEX		<0.00201		0.000406	mg/kg	12.05.19 02:38	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	95	70 - 130	%		
4-Bromofluorobenzene	97	70 - 130	%		

Certificate of Analytical Results

645024

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id: **WENSW** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 645024-006 Date Collected: 12.03.19 09.30 Date Received: 12.04.19 10.32

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109487 Date Prep: 12.04.19 20.58

Prep seq: 7691691

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**171**	10.1	0.357	mg/kg	12.05.19 09:42		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3109545 Date Prep: 12.05.19 13.00

Prep seq: 7691776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.1	50.1	13.9	mg/kg	12.05.19 14:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.1	50.1	11.5	mg/kg	12.05.19 14:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.1	50.1	11.5	mg/kg	12.05.19 14:06	U	1
Total TPH	PHC635	<50.1		11.5	mg/kg	12.05.19 14:06	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	104	70 - 135	%		
o-Terphenyl	119	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109456 Date Prep: 12.04.19 15.56

Prep seq: 7691695

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000485	mg/kg	12.05.19 02:56	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000527	mg/kg	12.05.19 02:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000405	mg/kg	12.05.19 02:56	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	0.000752	mg/kg	12.05.19 02:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000402	mg/kg	12.05.19 02:56	U	1
Total Xylenes	1330-20-7	<0.00200		0.000402	mg/kg	12.05.19 02:56	U	
Total BTEX		<0.00200		0.000402	mg/kg	12.05.19 02:56	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	70 - 130	%		
4-Bromofluorobenzene	103	70 - 130	%		

Certificate of Analytical Results
645024

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id: **WEESW** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 645024-007 Date Collected: 12.03.19 09.35 Date Received: 12.04.19 10.32

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109487 Date Prep: 12.04.19 20.58

Prep seq: 7691691

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**215**	9.94	0.352	mg/kg	12.05.19 09:48		1

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3109545 Date Prep: 12.05.19 13.00

Prep seq: 7691776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	13.9	mg/kg	12.05.19 14:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	11.5	mg/kg	12.05.19 14:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	11.5	mg/kg	12.05.19 14:26	U	1
Total TPH	PHC635	<50.2		11.5	mg/kg	12.05.19 14:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	113	70 - 135	%		
o-Terphenyl	121	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109456 Date Prep: 12.04.19 15.56

Prep seq: 7691695

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000486	mg/kg	12.05.19 03:21	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000528	mg/kg	12.05.19 03:21	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000406	mg/kg	12.05.19 03:21	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	0.000754	mg/kg	12.05.19 03:21	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000403	mg/kg	12.05.19 03:21	U	1
Total Xylenes	1330-20-7	<0.00200		0.000403	mg/kg	12.05.19 03:21	U	
Total BTEX		<0.00200		0.000403	mg/kg	12.05.19 03:21	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	70 - 130	%		
4-Bromofluorobenzene	101	70 - 130	%		

Certificate of Analytical Results

645024

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id: **WESSW** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 645024-008 Date Collected: 12.03.19 09.40 Date Received: 12.04.19 10.32

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109487 Date Prep: 12.04.19 20.58

Prep seq: 7691691

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**286**	98.8	3.50	mg/kg	12.05.19 09:53		10

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3109545 Date Prep: 12.05.19 13.00

Prep seq: 7691776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	13.8	mg/kg	12.05.19 14:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	11.4	mg/kg	12.05.19 14:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	11.4	mg/kg	12.05.19 14:26	U	1
Total TPH	PHC635	<49.8		11.4	mg/kg	12.05.19 14:26	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	106	70 - 135	%		
o-Terphenyl	121	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109456 Date Prep: 12.04.19 15.56

Prep seq: 7691695

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00198	0.00198	0.000481	mg/kg	12.05.19 04:48	U	1
Toluene	108-88-3	<0.00198	0.00198	0.000522	mg/kg	12.05.19 04:48	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	0.000402	mg/kg	12.05.19 04:48	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	0.000746	mg/kg	12.05.19 04:48	U	1
o-Xylene	95-47-6	<0.00198	0.00198	0.000399	mg/kg	12.05.19 04:48	U	1
Total Xylenes	1330-20-7	<0.00198		0.000399	mg/kg	12.05.19 04:48	U	
Total BTEX		<0.00198		0.000399	mg/kg	12.05.19 04:48	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	101	70 - 130	%		
4-Bromofluorobenzene	102	70 - 130	%		

Certificate of Analytical Results

645024

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id: **WEWSW1** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 645024-009 Date Collected: 12.03.19 13.30 Date Received: 12.04.19 10.32

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109487 Date Prep: 12.04.19 20.58

Prep seq: 7691691

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**580**	49.9	1.77	mg/kg	12.05.19 09:59		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3109545 Date Prep: 12.05.19 13.00

Prep seq: 7691776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	13.9	mg/kg	12.05.19 14:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	11.5	mg/kg	12.05.19 14:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	11.5	mg/kg	12.05.19 14:46	U	1
Total TPH	PHC635	<50.2		11.5	mg/kg	12.05.19 14:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	108	70 - 135	%		
o-Terphenyl	117	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109456 Date Prep: 12.04.19 15.56

Prep seq: 7691695

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000485	mg/kg	12.05.19 05:14	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000527	mg/kg	12.05.19 05:14	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000405	mg/kg	12.05.19 05:14	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	0.000752	mg/kg	12.05.19 05:14	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000402	mg/kg	12.05.19 05:14	U	1
Total Xylenes	1330-20-7	<0.00200		0.000402	mg/kg	12.05.19 05:14	U	
Total BTEX		<0.00200		0.000402	mg/kg	12.05.19 05:14	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	70 - 130	%		
4-Bromofluorobenzene	98	70 - 130	%		

Certificate of Analytical Results

645024

Etech Environmental & Safety Solution, Inc, Midland, TX

CVU #47 H

Sample Id: **WEWSW2** Matrix: Soil Sample Depth: 2 ft

Lab Sample Id: 645024-010 Date Collected: 12.03.19 13.40 Date Received: 12.04.19 10.32

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109487 Date Prep: 12.04.19 20.58

Prep seq: 7691691

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**604**	50.0	1.77	mg/kg	12.05.19 10:05		5

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3109545 Date Prep: 12.05.19 13.00

Prep seq: 7691776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.2	50.2	13.9	mg/kg	12.05.19 14:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.2	50.2	11.5	mg/kg	12.05.19 14:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.2	50.2	11.5	mg/kg	12.05.19 14:46	U	1
Total TPH	PHC635	<50.2		11.5	mg/kg	12.05.19 14:46	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	107	70 - 135	%		
o-Terphenyl	121	70 - 135	%		

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109456 Date Prep: 12.04.19 15.56

Prep seq: 7691695

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00202	0.00202	0.000489	mg/kg	12.05.19 05:31	U	1
Toluene	108-88-3	<0.00202	0.00202	0.000532	mg/kg	12.05.19 05:31	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	0.000409	mg/kg	12.05.19 05:31	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	0.000760	mg/kg	12.05.19 05:31	U	1
o-Xylene	95-47-6	<0.00202	0.00202	0.000406	mg/kg	12.05.19 05:31	U	1
Total Xylenes	1330-20-7	<0.00202		0.000406	mg/kg	12.05.19 05:31	U	
Total BTEX		<0.00202		0.000406	mg/kg	12.05.19 05:31	U	

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	99	70 - 130	%		
4-Bromofluorobenzene	100	70 - 130	%		

Certificate of Analytical Results
645024

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47 H

Sample Id: **7691691-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7691691-1-BLK Date Collected: Date Received:

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109487 Date Prep: 12.04.19 20.58

Prep seq: 7691691

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<10.0	10.0	0.354	mg/kg	12.05.19 08:33	U	1

Sample Id: **7691695-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7691695-1-BLK Date Collected: Date Received:

Analytical Method: BTEX by EPA 8021B Prep Method: 5030B

Analyst: MAB % Moist: Tech: MAB

Seq Number: 3109456 Date Prep: 12.04.19 15.56

Prep seq: 7691695

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Benzene	71-43-2	<0.00200	0.00200	0.000486	mg/kg	12.04.19 22:18	U	1
Toluene	108-88-3	<0.00200	0.00200	0.000528	mg/kg	12.04.19 22:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	0.000406	mg/kg	12.04.19 22:18	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	0.000754	mg/kg	12.04.19 22:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	0.000403	mg/kg	12.04.19 22:18	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1,4-Difluorobenzene	100	70 - 130	%		
4-Bromofluorobenzene	97	70 - 130	%		

Certificate of Analytical Results
645024

Etech Environmental & Safety Solution, Inc, Midland, TX
CVU #47 H

Sample Id: **7691776-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7691776-1-BLK Date Collected: Date Received:

Analytical Method: TPH By SW8015 Mod Prep Method: 8015

Analyst: DTH % Moist: Tech: DTH

Seq Number: 3109545 Date Prep: 12.05.19 13.00

Prep seq: 7691776

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	13.9	mg/kg	12.05.19 12:27	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	11.5	mg/kg	12.05.19 12:27	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	11.5	mg/kg	12.05.19 12:27	U	1

Surrogate	% Recovery	Limits	Units	Analysis Date	Flag
1-Chlorooctane	97	70 - 135	%		
o-Terphenyl	110	70 - 135	%		

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

Released to Imaging: 8/2/2021 4:21:03 PM

Form 2 - Surrogate Recoveries

Project Name: CVU #47 H

Work Orders : 645024,

Project ID:

Lab Batch #: 3109456 **Sample:** 7691695-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/04/19 22:18

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	70-130	
4-Bromofluorobenzene	0.0291	0.0300	97	70-130	

Lab Batch #: 3109456 **Sample:** 7691695-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/04/19 22:35

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	70-130	
4-Bromofluorobenzene	0.0302	0.0300	101	70-130	

Lab Batch #: 3109456 **Sample:** 7691695-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/04/19 22:52

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	70-130	
4-Bromofluorobenzene	0.0297	0.0300	99	70-130	

Lab Batch #: 3109456 **Sample:** 645001-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/04/19 23:10

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0306	0.0300	102	70-130	
4-Bromofluorobenzene	0.0309	0.0300	103	70-130	

Lab Batch #: 3109456 **Sample:** 645001-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/05/19 00:02

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0284	0.0300	95	70-130	
4-Bromofluorobenzene	0.0349	0.0300	116	70-130	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Version: 1.%

Form 2 - Surrogate Recoveries

Project Name: CVU #47 H

Work Orders : 645024,

Project ID:

Lab Batch #: 3109545 **Sample:** 7691776-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/05/19 12:27

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.0	100	97	70-135	
o-Terphenyl	55.0	50.0	110	70-135	

Lab Batch #: 3109545 **Sample:** 7691776-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/05/19 12:46

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	124	100	124	70-135	
o-Terphenyl	61.7	50.0	123	70-135	

Lab Batch #: 3109545 **Sample:** 7691776-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/05/19 12:46

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	130	100	130	70-135	
o-Terphenyl	66.9	50.0	134	70-135	

Lab Batch #: 3109545 **Sample:** 645024-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/05/19 13:06

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	130	100	130	70-135	
o-Terphenyl	67.3	50.2	134	70-135	

Lab Batch #: 3109545 **Sample:** 645024-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/05/19 13:26

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	133	99.6	134	70-135	
o-Terphenyl	61.8	49.8	124	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Version: 1.%

BS / BSD Recoveries

Project Name: CVU #47 H

Work Order #: 645024 **Project ID:**

Analyst: MAB **Date Prepared:** 12/04/2019 **Date Analyzed:** 12/04/2019

Lab Batch ID: 3109456 **Sample:** 7691695-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00200	0.100	0.0996	100	0.100	0.0976	98	2	70-130	35	
Toluene	<0.00200	0.100	0.0986	99	0.100	0.0958	96	3	70-130	35	
Ethylbenzene	<0.00200	0.100	0.0960	96	0.100	0.0930	93	3	71-129	35	
m,p-Xylenes	<0.000754	0.200	0.198	99	0.200	0.192	96	3	70-135	35	
o-Xylene	<0.00200	0.100	0.0975	98	0.100	0.0948	95	3	71-133	35	

Analyst: MAB **Date Prepared:** 12/04/2019 **Date Analyzed:** 12/05/2019

Lab Batch ID: 3109487 **Sample:** 7691691-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<10.0	250	264	106	250	264	106	0	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Version: 1.%

BS / BSD Recoveries

Project Name: CVU #47 H

Work Order #: 645024 **Project ID:**

Analyst: DTH **Date Prepared:** 12/05/2019 **Date Analyzed:** 12/05/2019

Lab Batch ID: 3109545 **Sample:** 7691776-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	904	90	1000	938	94	4	70-135	35	
Diesel Range Organics (DRO)	<50.0	1000	1090	109	1000	1140	114	4	70-135	35	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Version: 1.%

Form 3 - MS / MSD Recoveries

Project Name: CVU #47 H

Work Order # : 645024 **Project ID:**

Lab Batch ID: 3109456 **QC- Sample ID:** 645001-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/04/2019 **Date Prepared:** 12/04/2019 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00198	0.0992	0.100	101	0.100	0.0314	31	104	70-130	35	XF
Toluene	<0.00198	0.0992	0.0980	99	0.100	0.0369	37	91	70-130	35	XF
Ethylbenzene	<0.00198	0.0992	0.0961	97	0.100	0.0392	39	84	71-129	35	XF
m,p-Xylenes	<0.00397	0.198	0.199	101	0.200	0.0804	40	85	70-135	35	XF
o-Xylene	<0.00198	0.0992	0.0979	99	0.100	0.0438	44	76	71-133	35	XF

Lab Batch ID: 3109487 **QC- Sample ID:** 645024-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/05/2019 **Date Prepared:** 12/04/2019 **Analyst:** MAB

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	753	202	960	102	202	959	102	0	90-110	20	

Lab Batch ID: 3109545 **QC- Sample ID:** 645024-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/05/2019 **Date Prepared:** 12/05/2019 **Analyst:** DTH

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Gasoline Range Hydrocarbons (GRO)	<50.2	1000	873	87	996	1000	100	14	70-135	35	
Diesel Range Organics (DRO)	<50.2	1000	1060	106	996	1170	117	10	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 471 of 650

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: 445024

www.xenco.com Page 1 of 1

Project Manager:	daniel dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental	Company Name:	Chevron Environmental Management
Address:	3100 Plains Hwy	Address:	1500 Louisiana St. Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	832-854-5601	Email:	jmichelson@chevron.com; danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine	☐
P.O. Number:		Rush:	yes 24HR
Sampler's Name:	Daniel Dominguez	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	0-4	Thermometer ID	
Received Intact:	Yes No	T-NM-009	
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	Chloride	BTEX	TPH
WEF5	Soil	3-Dec-19	9:00	4	1	X	X	X
WEF6	Soil	3-Dec-19	9:05	4	1	X	X	X
WEF7	Soil	3-Dec-19	9:10	4	1	X	X	X
WEF8	Soil	3-Dec-19	13:00	4	1	X	X	X
WEF9	Soil	3-Dec-19	13:10	4	1	X	X	X
WENSW	Soil	3-Dec-19	9:30	2	1	X	X	X
WEESW	Soil	3-Dec-19	9:35	2	1	X	X	X
WESSW	Soil	3-Dec-19	9:40	2	1	X	X	X
WEWSW1	Soil	3-Dec-19	13:30	2	1	X	X	X
WEWSW2	Soil	3-Dec-19	13:40	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
		12/4/19 10:32	2		
			4		
			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 23 of 24

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: Etech Environmental & Safety Solution, I

Date/ Time Received: 12/04/2019 10:32:00 AM

Work Order #: 645024

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**
#13 Samples properly preserved?	**Yes**
#14 Sample container(s) intact?	**Yes**
#15 Sufficient sample amount for indicated test(s)?	**Yes**
#16 All samples received within hold time?	**Yes**
#17 Subcontract of sample(s)?	**No**
#18 Water VOC samples have zero headspace?	**N/A**

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

Analyst: PH Device/Lot#:

Checklist completed by: Elizabeth McClellan Date: 12/04/2019

Checklist reviewed by: Jessica Kramer Date: 12/05/2019

Analytical Report 645401

for

Etech Environmental & Safety Solution, Inc

Project Manager: Daniel Dominguez

CVC #47H

09-DEC-19

Collected By: Client

1211 W. Florida Ave
Midland TX 79701

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

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

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

Released to Imaging: 8/2/2021 4:21:03 PM

09-DEC-19

Project Manager: **Daniel Dominguez**
Etech Environmental & Safety Solution, Inc
P.O. Box 8469
Midland, TX 79708

Reference: XENCO Report No(s): **645401**
CVC #47H
Project Address:

Daniel Dominguez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 645401. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 645401 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Jessica Kramer

Jessica Kramer
Project Assistant

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

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

Sample Cross Reference 645401

Etech Environmental & Safety Solution, Inc, Midland, TX

CVC #47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
WEWSW2b	S	12-05-19 14:00	2	645401-001

CASE NARRATIVE

Client Name: Etech Environmental & Safety Solution, Inc

Project Name: CVC #47H

Project ID:
Work Order Number(s): *645401*

Report Date: *09-DEC-19*
Date Received: *12/06/2019*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results
645401

Etech Environmental & Safety Solution, Inc, Midland, TX
CVC #47H

Sample Id: **WEWSW2b** Matrix: Soil Sample Depth: 2

Lab Sample Id: 645401-001 Date Collected: 12.05.19 14.00 Date Received: 12.06.19 11.25

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109710 Date Prep: 12.06.19 14.10

Prep seq: 7691861

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	**180**	4.97	0.853	mg/kg	12.07.19 03:40		1

Certificate of Analytical Results
645401

Etech Environmental & Safety Solution, Inc, Midland, TX
CVC #47H

Sample Id: **7691861-1-BLK** Matrix: Solid Sample Depth:

Lab Sample Id: 7691861-1-BLK Date Collected: Date Received:

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Analyst: SPC % Moist: Tech: SPC

Seq Number: 3109710 Date Prep: 12.06.19 14.10

Prep seq: 7691861

Parameter	CAS Number	Result	MQL	SDL	Units	Analysis Date	Flag	Dil Factor
Chloride	16887-00-6	<5.00	5.00	0.858	mg/kg	12.06.19 21:59	U	1

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

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

BS / BSD Recoveries

Project Name: CVC #47H

Work Order #: 645401 **Project ID:**

Analyst: SPC **Date Prepared:** 12/06/2019 **Date Analyzed:** 12/06/2019

Lab Batch ID: 3109710 **Sample:** 7691861-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.858	250	253	101	250	253	101	0	90-110	20	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|
Blank Spike Recovery [D] = 100*(C)/[B]
Blank Spike Duplicate Recovery [G] = 100*(F)/[E]
All results are based on MDL and Validated for QC Purposes

Form 3 - MS / MSD Recoveries

Project Name: CVC #47H

Work Order # : 645401 **Project ID:**

Lab Batch ID: 3109710 **QC- Sample ID:** 645274-002 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/06/2019 **Date Prepared:** 12/06/2019 **Analyst:** SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	42.5	251	317	109	251	308	106	3	90-110	20	

Lab Batch ID: 3109710 **QC- Sample ID:** 645337-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/07/2019 **Date Prepared:** 12/06/2019 **Analyst:** SPC

Reporting Units: mg/kg

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

Chloride by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	210	253	468	102	253	465	101	1	90-110	20	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 482 of 650

Chain of Custody

Work Order No: 1054101

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:	daniel dominguez	Bill to: (if different)	Jason Michelson
Company Name:	Etech Environmental	Company Name:	Chevron Environmental Management
Address:	3100 Plains Hwy	Address:	1500 Louisiana St. Office 38116
City, State ZIP:	Lovington, NM 88260	City, State ZIP:	Houston, TX 77002
Phone:	832-854-5601	Email:	jmichelson@chevron.com; danield@etechenv.com

Work Order Comments

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

Project Name:	CVU #47H	Turn Around	
Project Number:		Routine ☐	
P.O. Number:		Rush: yes	
Sampler's Name:	Daniel Dominguez	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	0.5	Thermometer ID		
Received Intact:	(Yes) No			
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	0	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	BTEX	TPH										
WEWSW2b	Soil	5-Dec-19	14:00	2	1	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	Natalie Rivera	12/5 3:48	2 Natalie Rivera	12/6/19	
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 10 of 10

Appendix D

Photographic Log

Photographic Log

Photo Number: #1 **Photo Direction:** South **Photo Description:** East Excavation	

Photo Number: #2 **Photo Direction:** East **Photo Description:** Starting middle excavation	

Photographic Log

Photo Number: #3 **Photo Direction:** East **Photo Description:** Middle excavation	

Photo Number: #4 **Photo Direction:** South **Photo Description:** Middle excavation	

Photographic Log

Photo Number: #5 **Photo Direction:** Southeast **Photo Description:** Middle excavation complete. Sampling grid set	

Photo Number: #6 **Photo Direction:** South **Photo Description:** Middle excavation complete. Sampling grid set	

Photographic Log

Photo Number: #7 **Photo Direction:** East **Photo Description:** Liner in middle excavation	

Photo Number: #8 **Photo Direction:** North **Photo Description:** Liner in middle excavation	

Photographic Log

Photo Number: #9 **Photo Direction:** South **Photo Description:** Backfilling middle excavation	

Photo Number: #10 **Photo Direction:** East **Photo Description:** Backfilling middle excavation	

Photographic Log

Photo Number: #11 **Photo Direction:** South **Photo Description:** Backfilling east excavation	

Photo Number: #12 **Photo Direction:** South **Photo Description:** East excavation backfill complete	

Photographic Log

Photo Number: #13 **Photo Direction:** South **Photo Description:** Middle excavation backfill complete	

Photo Number: #14 **Photo Direction:** Southeast **Photo Description:** Middle excavation backfill complete	

Photographic Log

Photo Number: #15 **Photo Direction:** West **Photo Description:** West excavation	

Photo Number: #16 **Photo Direction:** Southwest **Photo Description:** Liner in west excavation	

Photographic Log

Photo Number: #17 **Photo Direction:** Southwest **Photo Description:** West excavation backfilled	

Photo Number: #18 **Photo Direction:** Southeast **Photo Description:** West excavation backfilled	

Appendix E

2019 Site Assessment Report

Jason Michelson
Project Manager

Chevron Environmental Management Company
1500 Louisiana Street, #38116
Houston, Texas 77002
Work: 832-854-5601
Cell: 281-660-8564
jmichelson@chevron.com

March 13, 2019

New Mexico Oil Conservation Division, District 1
1625 N. French Drive
Hobbs, NM 88240

Re: Chevron Central Vacuum Unit No. 47H
Site Assessment Report and Remediation Work Plan
Case No. RP-1483
Lea County, New Mexico

Dear Sir or Madam,

Please find enclosed for your records copies of the following report:

- Central Vacuum Unit No. 47 H – Site Assessment Report, Unit A, Section 31, Township 17 South, Range 35 East; Lea County New Mexico.

The report was prepared by GHD Services (GHD) on behalf of Chevron Environmental Management Company (CEMC) to document on-going assessment activities throughout 2018 at the Site. It has been determined that delineation for the site has been achieve so a Remediation Work Plan has been included as Appendix C for your review and consideration. CEMC shall commence remediation activities within 120 days of receiving the New Mexico Oil Conservation Division's approval of the Remediation Work Plan.

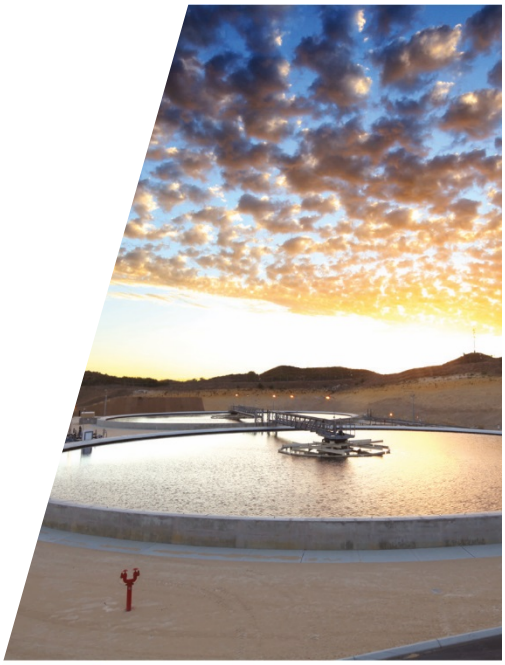
Should you have any questions, please do not hesitate to contact me at 832-854-5601.

Sincerely,

Jason Michelson

encl. Central Vacuum Unit No. 47H – Site Assessment Report

c.c. Amy Barnhill, Chevron/MCBU



Site Assessment Report

Central Vacuum Unit No. 47H
RP No. 1483
Unit A, Section 31, Township 17 South,
Range 35 East, Lea County, New Mexico

Chevron Environmental Management Company



Table of Contents

1. Introduction 1
2. Project Information and Background 1
3. Regulatory Criteria 2
   3.1 Soil 2
   3.2 Groundwater 4
4. Soil Assessment 4
   4.1 Soil Sampling Analytical Results - 2018 5
5. Groundwater Assessment 5
   5.1 Groundwater Sampling 5
   5.2 Groundwater Analytical Results 5
6. Summary of Findings 6
7. 2019 Assessment Activities 6

Figure Index

Figure 1 Site Location Map
Figure 2 Site Aerial Map
Figure 3 Site Details Map
Figure 4 Chloride Analytical Results Map

Table Index

Table 1 Summary of Soil Analytical Results
Table 2 Summary of Groundwater Analytical Results

Appendix Index

Appendix A SB-11 through SB-16 Soil Boring Logs
Appendix B Soil and Groundwater Laboratory Analytical Reports
Appendix C 2019 Work Plan

Released to Imaging: 8/2/2021 4:21:03 PM

1. Introduction

On behalf of Chevron Environmental Management Company (CEMC), GHD Services, Inc. (GHD) has prepared this Site Assessment Report summarizing soil boring installation and sampling activities conducted at the Central Vacuum Unit No. 47H location (hereafter referred to as the "Site"). The Site is located in Unit A, Section 31, Township 17 South, Range 35 East, approximately 0.94-miles southeast of Buckeye, in central Lea County, New Mexico (Figure 1 and Figure 2). Remediation Permit (RP) Number 1483 (RP-1483) was assigned by the New Mexico Oil Conservation Division (NMOCD) District I, Hobbs, New Mexico office.

2. Project Information and Background

Environmental Plus, Inc. (EPI) submitted a request for pit closure\work plan on behalf of Chevron USA (Chevron) to the NMOCD District I, Hobbs, New Mexico office on July 9, 2007 that summarized field activities completed by EPI in January and February 2006 at CVU 47H. An area around the former pit location was excavated to approximately 10-feet below ground surface (bgs) and an estimated 2,622 cubic yards (cy) of drilling mud/soil were transported to Sundance Services, Inc. Subsequent to excavation activities, soil samples from two soil borings (SB-1 and SB-2) installed at the base of the excavation and eight excavation sidewall samples (NSWW-3, WSWN-3, WSWS-3, SSWW 3, SSWE-3, ESWS-3, ESWN-3, and NSWE-3) were collected. Soil boring data demonstrated chloride concentrations decreasing to below the historical Site Recommended Remediation Action Level (RRAL) of 250 milligrams per kilogram (mg/kg) in each of the pit floor borings. Sidewall samples indicated elevated chloride impacts at a depth of 3 feet bgs on the south/southeastern portions of the excavation.

On July 11, 2007, the pit closure work plan submitted by EPI was denied approval by the NMOCD District I office because of elevated chloride concentrations still present at the south/southeastern portion of the existing excavation. The NMOCD recommended these "hot spots" be removed and a closure proposal be resubmitted once lateral delineation was confirmed. In December 2010, CEMC assumed the responsibilities of the pit closure activities at the Site and GHD (formerly CRA) was contracted to manage the pit closure activities. On January 11, 2011, GHD, CEMC, and AECOM met at the NMOCD District I office to discuss the path forward at the Site. Topics of discussions included the 2007 work plan submittal and objectives to close the pit as directed by the NMOCD.

On June 27, 2012, GHD and CEMC met at the NMOCD District I office to further discuss the path forward at the Site. The discussion covered GHD's Closure Request Work Plan (prepared March 18, 2011), additional delineation activities, proper closure documentation (C-141/C-144 form) submittal, and reporting. The NMOCD requested additional assessment activities be completed to further evaluate the vertical extent of chloride impacts for areas outside of the excavated pit boundaries. In December 2012, GHD mobilized to the Site to initiate additional soil boring activities. Soil borings SB-3 and SB-4 were drilled to 50 feet bgs to assess areas southeast (outside) of the previously excavated pit boundaries. Results of the 2012 soil boring and sampling activities indicated the presence of elevated chloride concentrations in soil (see Figure 4).

Released to Imaging: 8/2/2021 4:21:03 PM

On July 9, 2014, GHD and CEMC met with NMOCD at the NMOCD District I office to discuss a pit closure plan and request to backfill prepared by GHD on behalf of CEMC. The Site's history and analytical findings were reviewed and it was agreed to by all parties that the existing open pit excavation should be backfilled in accordance to the pit closure plan, and a backfill request prepared by GHD (July 2014). NMOCD requested that a NMOCD Form C-144 be submitted summarizing the backfilling and closure activities. Additionally, NMOCD requested that delineation efforts to the southeast of the excavation be further explored via soil borings and analytical sampling, and that those activities be reported under a separate NMOCD Form C-141 during the 2015 calendar year.

GHD performed the proposed backfilling and closure activities for the pit in March of 2015. GHD prepared and submitted a Remediation and Pit Closure Activities Report as an attachment to the NMOCD C-144 Pit Closure Form submitted to NMOCD in April 2015.

GHD returned to the Site on August 19, 2015 to initiate additional soil boring activities discussed in the July 9, 2014 meeting between Chevron, GHD, and the NMOCD. Soil boring SB-1 was advanced to approximately 50 feet bgs and soil boring SB-2 was advanced to approximately 90 feet bgs. Soil samples collected from SB-1 were below the historical RRAL for chloride (250 mg/kg) in all samples collected with the exception of the 5-foot interval (421 mg/kg). Soil boring SB-2 exceeded the historical RRAL in multiple sample intervals throughout the boring.

The analytical data obtained from the October 2017 soil assessment activities (installation of SB-5 through SB-10 to 90 feet bgs) indicated that vertical and horizontal delineation of chloride impacts in soil was not achieved at the Site. Assessment activities were continued in 2018 and included the advancement of six additional soil borings (SB-11 through SB-16) to 90 feet bgs. In addition, one groundwater monitoring well (MW-1) was installed to 130 feet bgs in order to assess groundwater conditions at the Site.

3. Regulatory Criteria

3.1 Soil

Historical subsurface investigation activities were completed in accordance with the Guidelines for Remediation of Leaks, Spills, and Releases Rule 19.15.29 New Mexico Administrative Code (NMAC) from the NMOCD dated August 13, 1993. The former site-specific Recommended Remediation Action Levels (RRALs) previously applied to this location by the NMOCD were 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total BTEX, 100 mg/kg for total TPH, and 600 mg/kg (revised in 2017) for chloride.

Rule 19.15.29 was revised and reissued on August 14, 2018. The following criteria from Table 1 (below) within NMAC 19.15.29.12 was utilized to determine site-specific screening limits.

Released to Imaging: 8/2/2021 4:21:03 PM

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Limit*
>100 Feet	Chloride**	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

* Numerical limits or natural background level, whichever is greater.

** This applies to release of produced water or other fluids which may contain chloride.

Localized depth to groundwater was confirmed to be approximately 106 feet bgs in 2018 based on the information from monitoring well MW-1 installed at the site. The boring log for MW-1 is included in Appendix A. Additionally, information available from various sources including the Petroleum Recovery Research Center (PRRC) Mapping Portal, currently managed groundwater site(s) data by GHD, and the United States Geological Survey (USGS) Current Water Database for the Nation, concludes:

1. the depth to groundwater at the Site is greater than 100-feet bgs;
2. the site is not within 300 feet of any continuously flowing watercourse;
3. the site is not within 200 feet of any lakebed, sinkhole or playa lake;
4. the site is not within 300 feet of an occupied permanent residence, school, etc.;
5. the site is not within 500 feet of a spring or private, domestic fresh water well;
6. the site is not within 1,000 feet of any fresh water well or spring;
7. the site is not within incorporated municipal boundaries or within a defined municipal fresh water well field;
8. the site is not within 300 feet of a wetland;
9. the site is not within an area overlying a subsurface mine;
10. the site is not within an unstable area; and
11. the site is not within a 100-year floodplain.

Consequently, the anticipated site-specific screening limits to be applied to this location by the NMOCD based on the revised Rule are 10 mg/kg for benzene, 50 mg/kg for total BTEX, 2,500 mg/kg for total TPH, and 20,000 mg/kg for chloride.

Per 19.15.29.13, Restoration, Reclamation, and Re-vegetation, the impacted area must be remediated a minimum of 4-feet bgs with non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg. Soil cover must consist of topsoil at a thickness comparable to background topsoil thicknesses, or one foot of suitable earthen material capable of establishing and maintaining vegetation at the site. Reclamation is considered complete when all disturbed areas have established vegetative cover with a life-form ratio of plus or minus 50 percent

Released to Imaging: 8/2/2021 4:21:03 PM

of pre-remedial levels, and plant cover of a minimum of 70 percent of previous levels, excluding noxious weeds.

3.2 Groundwater

The guidance also requires remediation of groundwater to human health standards of the New Mexico Water Quality Control Commission (NMWQCC) established in New Mexico Administrative Code Section 20.6.2.3103. Standards for chloride and total dissolved solids (TDS) are listed below.

Analyte	NMWQCC Standard for Groundwater (mg/L)
Chloride	250
TDS	1,000

4. Soil Assessment

In order to further define the horizontal extent of chloride impact, six additional soils borings and one monitoring well boring (SB-11 though SB-16, and MW-1) were installed using an air rotary drilling rig. Prior to mobilizing drilling equipment to the Site, the boring locations were marked and an initial New Mexico One Call utility locate ticket was submitted. GHD's contracted service provider, Harrison Cooper, Inc. (HCI), a New Mexico-licensed water well driller, and GHD mobilized to the Site to begin drilling activities on September 12, 2018. Each boring location was cleared for underground utilities with the use of an air knife up to a depth of 5 feet bgs or refusal. SB-6 though SB-11 were advanced to 90 feet bgs, the boring for MW-1 was advanced to 130 feet bgs. Site details and boring locations are shown on Figures 3 and 4.

Soil samples were collected at 4-5 feet bgs, and then ten-foot intervals starting at 9-10 feet bgs within each of the seven soil borings. Soil samples were placed in laboratory-supplied sample containers on ice, labeled, and submitted under proper chain of custody to Xenco Laboratories in Midland, Texas for analysis of chloride by EPA Method 300. Groundwater was not encountered in any of the soil borings, but was encountered at greater than 100 feet bgs within the boring of MW-1. Following completion of activities, the soil cuttings were returned to their respective boreholes and the remainder backfilled with hydrated bentonite pellets from 10 feet bgs to the ground surface. MW-1 was completed as a monitoring well.

Chloride screening was accomplished in the field by mixing soil samples with distilled water, then testing the rinsate using Hach chloride test strips. The soil types observed during drilling of SB-11 through SB-16 and MW-1 consisted primarily of silty sands. The soils were logged in accordance with the Unified Soil Classification System, and soil boring logs are provided in Appendix A.

Monitoring Well Installation

MW-1 was completed with four-inch diameter, schedule 40 polyvinyl chloride (PVC) casing, 30 feet of 0.010-inch PVC slotted screen, a 20/40 sand filter pack overlain by a bentonite seal extending up to 10 feet bgs, and riser casing extending above the ground surface. The well was completed at the surface with a stick-up protective casing set in an approximate 2 feet by 2 feet concrete pad. The well was developed by bailing and pumping.

Released to Imaging: 8/2/2021 4:21:03 PM

Preliminary gauging data indicated that groundwater was present at approximately 106 feet below the top of casing. The well was developed by removal of sufficient volumes of water to clear the well casing and annulus of sediment. Very turbid water was removed with a 3-inch diameter bailer. Following bailing, well development was completed by pumping at 9 gallons per minute with a submersible pump. Approximately 300 gallons of water were removed during well development.

The boring log, well construction diagram, and the State Well Report are provided in Appendix A.

4.1 Soil Sampling Analytical Results - 2018

Analytical results associated with the soil boring activities of September 2018 are discussed in the following section. Based on analytical results from the shallow soil samples, some deeper soil samples were not analyzed at the direction of GHD. Analytical results are presented in Table 1, shown in map view on Figure 4, and are summarized below:

- Chloride concentrations exceeded restoration requirements within the first 4 feet bgs in SB-12, SB-16, and MW-1.
- All other samples analyzed for chloride concentrations were below the NMOCD screening standards.

5. Groundwater Assessment

5.1 Groundwater Sampling

Depth to groundwater was measured in MW-1 to the nearest hundredth of a foot (106.31 feet bgs) from the top of casing using an electronic water level meter on October 31, 2018. Field equipment was decontaminated with an Alconox™ wash and distilled water rinse before beginning field activities.

MW-1 was sampled using a bladder pump and low-flow methodology. The sample was placed in laboratory-supplied containers and chilled on ice in an insulated cooler. The sample was delivered under chain-of-custody documentation to Xenco Laboratories of Midland, Texas for analysis of chloride by EPA method 300 and total dissolved solids (TDS) by method SM 2540C.

5.2 Groundwater Analytical Results

Chloride was reported at a concentration of 115 milligrams per liter (mg/L) from the groundwater sample collected from MW-1, which is below the 250 mg/L standard. TDS was reported at a concentration of 678 mg/L from the sample collected from MW-1, which is below the 1,000 mg/L standard.

Groundwater analytical results for chloride and TDS are summarized in Table 2 in reference to NMWQCC standards. The laboratory analytical report is provided in Appendix B.

Released to Imaging: 8/2/2021 4:21:03 PM

6. Summary of Findings

Evaluation of the analytical data obtained from soil assessment and delineation activities performed from 2012 through 2018 indicate horizontal and vertical delineation of chloride impacts has been achieved at the Site to support remediation activities (excavation). The depth to groundwater was determined to be 106.31 feet below top of casing confirming that depth to groundwater at the Site is greater than 100 feet bgs. Results from the groundwater sample collected from MW-1 confirm no impact to groundwater at the Site.

7. 2019 Assessment Activities

Lateral and horizontal delineation have been completed at the Site. Soil remediation activities (excavation) per NMAC 19.15.29.13 will be conducted at the Site following NMOCD approval of the 2019 Remediation Work Plan attached as Appendix C of this report. Additionally, GHD would like to request permission to plug and abandon MW-1.

All of Which is Respectfully Submitted,

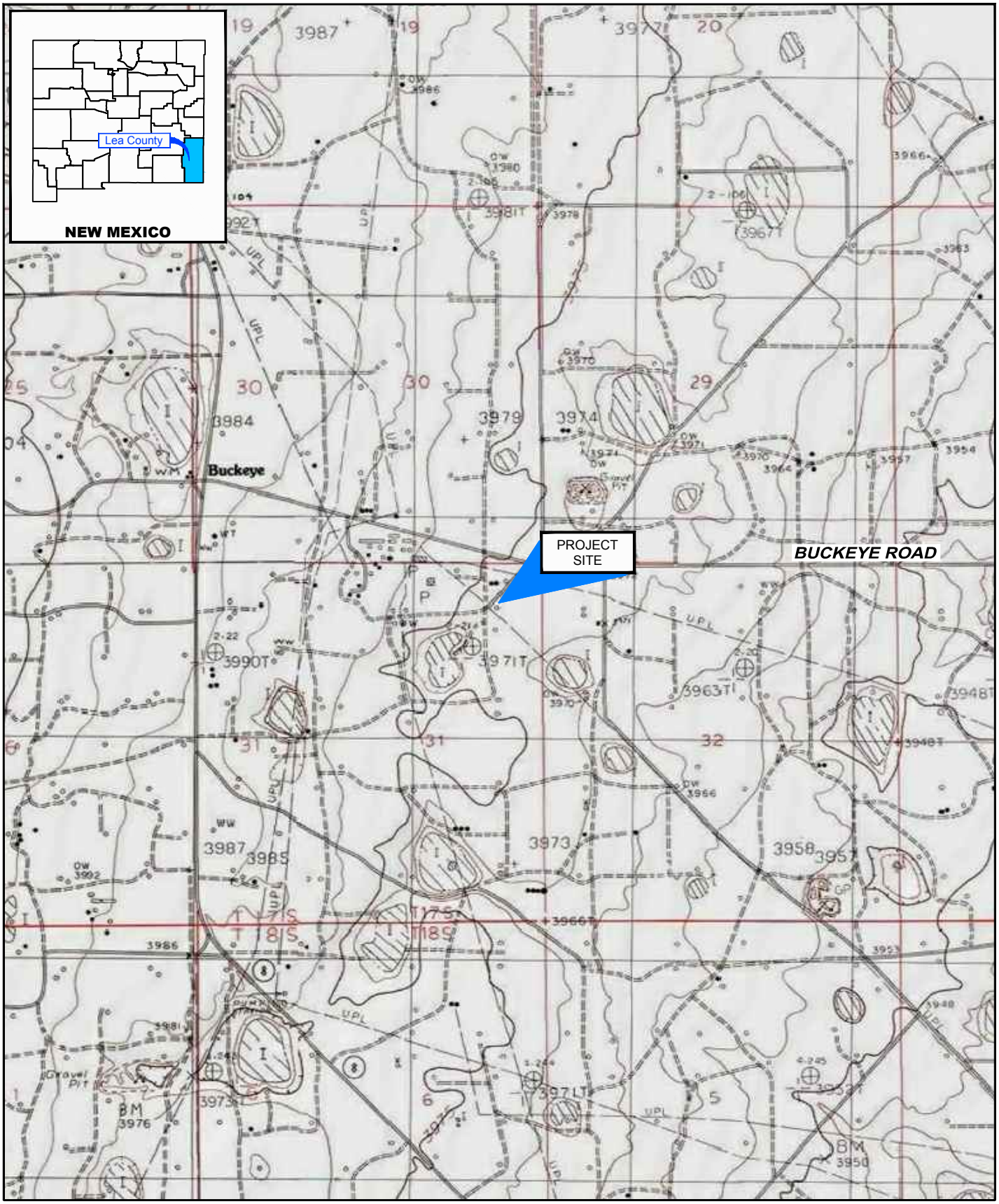
GHD

Scott Foord, P.G.
Project Manager

Raaj V. Patel, P.G.
Program Manager

Figures

Released to Imaging: 8/2/2021 4:21:03 PM



Source: USGS 7.5 Minute Quad "Buckeye and Lovington SW, Texas"

Lat/Long: 32.7970° North, 103.4906° West

0 1000 2000ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

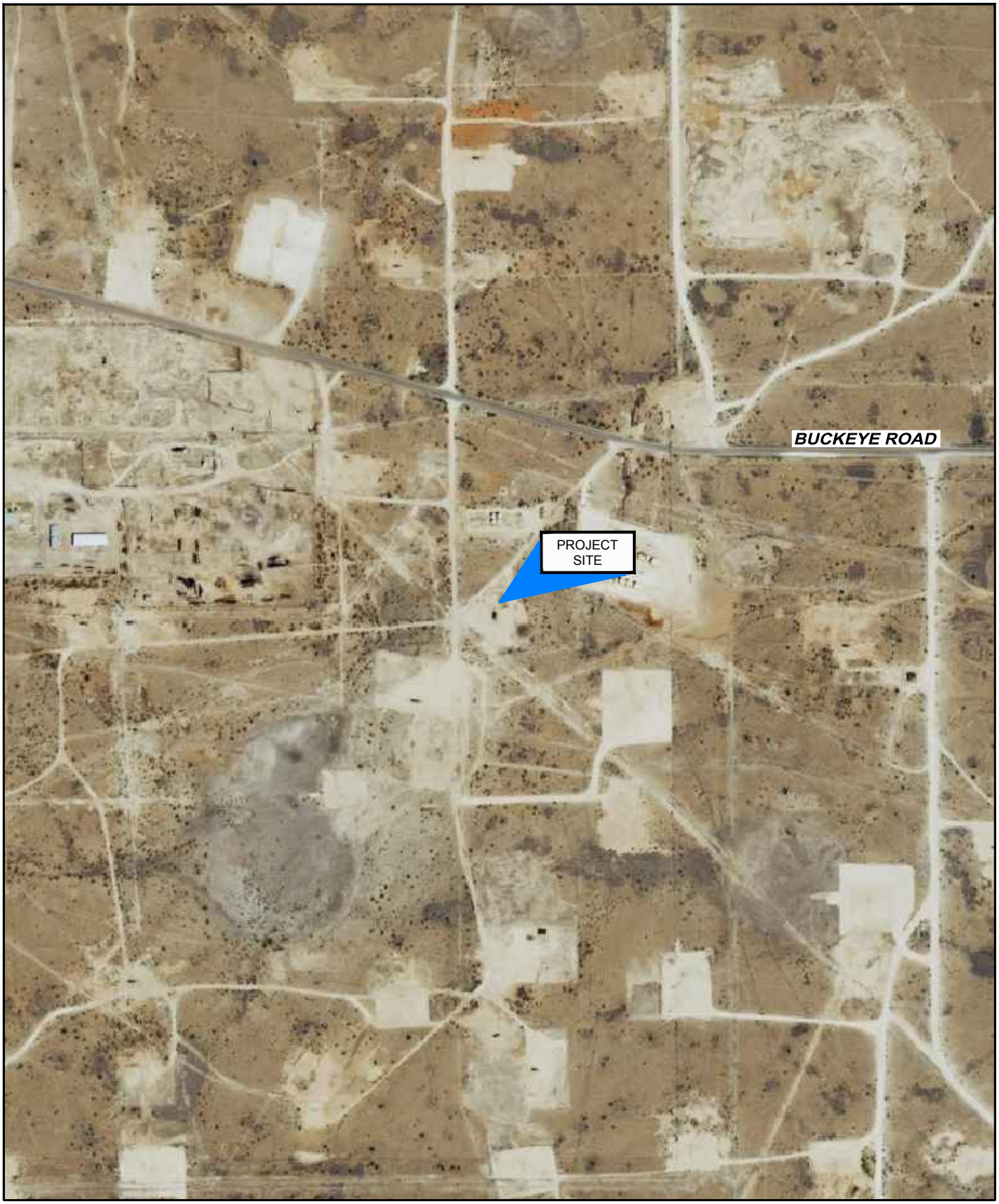
CEMC
LEA COUNTY, NEW MEXICO
CENTRAL VACUUM UNIT No. 47H

073821-00
Nov 29, 2018

SITE LOCATION MAP

FIGURE 1

CAD File: I:\CAD\Files\07-----\073---\073821-Chevron-Central Vacuum Unit #47H\073821-00\073821-00(008)\073821-00(008)GN-DL001.dwg



Source: USDA FSA Imagery, May 10, 2014

Lat/Long: 32.7970° North, 103.4906° West

0 250 500ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

CEMC
LEA COUNTY, NEW MEXICO
CENTRAL VACUUM UNIT No. 47H

073821-00

Nov 29, 2018

SITE AERIAL MAP

FIGURE 2

CAD File: I:\CAD\Files\07-----\073---\073821-Chevron-Central Vacuum Unit #47H\073821-00\073821-00(008)\073821-00(008)GN-DL001.dwg

Page 506 of 630

NOTES:

1. Subsurface utilities identified by Ground Penetrating Radar (GPR) survey conducted in 2012.



Source: UDSA FSA Imagery, May 10, 2014

Lat/Long: 32.7970° North, 103.4906° West

0 20 40ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

CEMC
LEA COUNTY, NEW MEXICO
CENTRAL VACUUM UNIT No. 47H

073821-00

Nov 29, 2018

SITE DETAILS MAP

FIGURE 3

CAD File: I:\CAD\Files\07----\073---\073821-Chevron-Central Vacuum Unit #47H\073821-00\073821-00(008)\073821-00(008)GN-DL001.dwg

Received by OCD: 2/13/2020 11:53:52 AM

Released to Imaging: 8/2/2021 4:21:03 PM

Page 507 of 650

NOTES:

1. Soil concentrations presented in milligrams per kilogram (mg/kg).
2. Groundwater concentrations presented in milligrams per liter (mg/L).
3. Highlighted cells indicate concentrations exceeding guidance screening criteria of 600 mg/kg depicted in 19.15.29.13 NMAC within the first 4' bgs for chloride.
4. Floor Sample-031015 indicates a 5-point composite sample of excavation floor.
5. Depicted remedial closure activity boundaries pretain to previously submitted pit closure report under NMOCD C-144 Form.

Floor Sample-031015[3]	
Date	03/15/15
Depth	Surface
BTEX	<0.00128
TPH (GRO & DRO)	<19.2
Chloride	4.38

NE-47H-031915	
Date	03/19/15
Depth	5'
Chloride	15.4

E-47H-031915	
Date	03/19/15
Depth	5'
Chloride	15.7

SE-47H-031915	
Date	03/19/15
Depth	5'
Chloride	13.6

NE-47H

E-47H

SE-47H

SB-13 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	8.79	55.7	6.54	<5.42	<5.45	<5.43	<5.27	<5.27	<5.34	<5.29

SB-13

MW-1 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	843	735	2,200	1,430	1,570	3,080	4,210	1,950	3,270	2,760

SB-7 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	1,180	475	966	1,940	1,020	848	625	114	58.7	58.5	62.4

SB-7

SB-11 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	155	<5.18	<5.36	<5.27	<5.16	<5.28	<5.28	<5.20	<5.23	<5.29

SB-11

SB-5 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	29-30'
Chloride	3,760	585	167	135	17.4

SB-5

SB-14 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	78.5	375	84.4	152	38.7	25.2	23.1	<5.29	<5.32	<5.34

SB-14

SB-6

MW-1

SB-6 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	19-20'*	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	1,970	384	229	542	536*	417	507	489	541	867	1,140	1,120

MW-1	10/31/18
Chloride	115
TDS	678

SB-4

SB-4 12/17/12

Depth	10'	20'	30'	40'	50'
Chloride	1,230	754	274	209	87.3

SB-12 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	807	816	851	661	72.4	56	9.58	21	<5.30	<5.26

SB-12

SB-15 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	311	368	134	124	<5.30	<5.29	<5.28	<5.32	<5.28	<5.37

SB-15

SB-3

SB-2

SB-2 08/19/15

Depth	0'	5'	10'	15'	20'	30'	40'	50'	60'	80'
Chloride	1,540	1,470	462	611	680	306	539	554	1,090	101

SB-3 12/17/12

Depth	10'	20'	30'	40'	50'
Chloride	1,250	906	537	1,360	1,430

SB-8

SB-8 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	29-30'	39-40'
Chloride	11.7	108	1,570	28.8	125	41.5

SB-9

SB-9 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	29-30'
Chloride	210	290	495	227	12.7

SB-1

SB-16

SB-16 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	625	226	362	5.34	38.9	24.6	35.6	10.4	6.19	25.2

SB-10

SB-10 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	29-30'
Chloride	39.8	243	322	39.2	108

SB-1 08/19/15

Depth	0'	5'	10'	15'	20'	30'	40'	50'
Chloride	75.7	421	17.8	123	97.0	93.7	68.9	15.5

LEGEND

- Soil Boring Location - 2012
- Soil Boring Location - 2015
- Soil Boring Location - 2017
- Soil Boring Location - 2018
- Monitoring Well Location - 2018
- Excavated Sidewall Sample Location
- 5-point Composite Sample Location
- Approximate Boundary of Remedial Closure Activities
- Approximate Excavated Area
- Backfill and Remediated Area
- Depth — Depth of Sample (ft)
- BTEX — Benzene, Toluene, Ethylbenzene and Xylenes Concentration
- TPH — Total Petroleum Hydrocarbons Concentration
- DRO — TPH as Diesel Range Organics
- GRO — TPH as Gasoline Range Organics
- * — Indicates Duplicate Sample

Source: UDSA FSA Imagery, May 10, 2014

Lat/Long: 32.7970° North, 103.4906° West

0 20 40ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

Sample ID — SB-4 12/17/12 — Sample Date
Depth 10' — Sample Depth (ft)
Chloride 1,230 — Sample Result (mg/kg)

GHD

CEMC
LEA COUNTY, NEW MEXICO
CENTRAL VACUUM UNIT No. 47H

073821-00

Dec 5, 2018

CHLORIDE ANALYTICAL RESULTS MAP

FIGURE 4

CAD File: I:\CAD\Files\07----\073---\073821-Chevron-Central Vacuum Unit #47H\073821-00\073821-00(008)\073821-00(008)GN-DL001.dwg

Received by OCD: 2/13/2020 11:53:52 AM

Released to Imaging: 8/2/2021 4:21:03 PM

Tables

Released to Imaging: 8/2/2021 4:21:03 PM

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
CENTRAL VACUUM UNIT 47H
LEA COUNTY, NEW MEXICO

Sample ID	Depth (feet)	Date	Chlorides
			mg/kg
NMOCD Screening Standard			20,000
Restoration Requirements within the Top 4 feet bgs			600
SB-1	0	8/19/15	75.7
	5	8/19/15	421
	10	8/19/15	17.8
	15	8/19/15	123
	20	8/19/15	97
	30	8/19/15	93.7
	40	8/19/15	68.9
	50	8/19/15	15.5
SB-2	0	8/19/15	1540
	5	8/19/15	1470
	10	8/19/15	462
	15	8/19/15	611
	20	8/19/15	680
	30	8/19/15	306
	40	8/19/15	539
	50	8/19/15	554
	60	8/19/15	1090
	80	8/19/15	101
SB-3	10	12/17/12	1250
	20	12/17/12	906
	30	12/17/12	537
	40	12/17/12	1360
	50	12/17/12	1430
SB-4	10	12/17/12	1230
	20	12/17/12	754
	30	12/17/12	274
	40	12/17/12	209
	50	12/17/12	87.3
SB-5	0.5-1	10/18/17	3760
	4-5	10/18/17	585
	9-10	10/18/17	167
	19-20	10/18/17	135
	29-30	10/18/17	17.4
SB-6	0.5-1	10/18/17	1970
	4-5	10/18/17	384
	9-10	10/18/17	229
	19-20	10/18/17	542
Dup	19-20	10/18/17	536
	29-30	10/18/17	417
	39-40	10/18/17	507
	49-50	10/18/17	489
	59-60	10/18/17	541
	69-70	10/18/17	867
	79-80	10/18/17	1140
	89-90	10/18/17	1120
SB-7	0.5-1	10/18/17	1180
	4-5	10/18/17	475
	9-10	10/18/17	966
	19-20	10/18/17	1940
	29-30	10/18/17	1020
	39-40	10/18/17	848
	49-50	10/18/17	625
	59-60	10/18/17	114
	69-70	10/18/17	58.7
	79-80	10/18/17	58.5
	89-90	10/18/17	62.4

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
CENTRAL VACUUM UNIT 47H
LEA COUNTY, NEW MEXICO

Sample ID	Depth (feet)	Date	Chlorides
			mg/kg
NMOCD Screening Standard			20,000
Restoration Requirements within the Top 4 feet bgs			600
SB-8	0.5-1	10/18/17	11.7
	4-5	10/18/17	108
	9-10	10/18/17	1570
	19-20	10/18/17	28.8
	29-30	10/18/17	125
	39-40	10/18/17	41.5
SB-9	0.5-1	10/18/17	210
	4-5	10/18/17	290
	9-10	10/18/17	495
	19-20	10/18/17	227
	29-30	10/18/17	12.7
SB-10	0.5-1	10/18/17	39.8
	4-5	10/18/17	243
	9-10	10/18/17	322
	19-20	10/18/17	39.2
	29-30	10/18/17	108
SB-11	4-5	9/12/18	155
	9-10	9/12/18	<5.18
	19-20	9/12/18	<5.36
	29-30	9/12/18	<5.27
	39-40	9/12/18	<5.16
	49-50	9/12/18	<5.28
	59-60	9/12/18	<5.28
	69-70	9/12/18	<5.20
	79-80	9/12/18	<5.23
	89-90	9/12/18	<5.29
SB-12	4-5	9/12/18	807
	9-10	9/12/18	816
	19-20	9/12/18	851
	29-30	9/12/18	661
	39-40	9/12/18	72.4
	49-50	9/12/18	56
	59-60	9/12/18	9.58
	69-70	9/12/18	21
	79-80	9/12/18	<5.30
	89-90	9/12/18	<5.26
SB-13	4-5	9/12/18	8.79
	9-10	9/12/18	55.7
	19-20	9/12/18	6.54
	29-30	9/12/18	<5.42
	39-40	9/12/18	<5.45
	49-50	9/12/18	<5.43
	59-60	9/12/18	<5.27
	69-70	9/12/18	<5.27
	79-80	9/12/18	<5.34
	89-90	9/12/18	<5.29
SB-14	4-5	9/12/18	78.5
	9-10	9/12/18	375
	19-20	9/12/18	84.4
	29-30	9/12/18	152
	39-40	9/12/18	38.7
	49-50	9/12/18	25.2
	59-60	9/12/18	23.1
	69-70	9/12/18	<5.29
	79-80	9/12/18	<5.32
	89-90	9/12/18	<5.34

Released to Imaging: 8/2/2021 4:21:03 PM

Received by OCD: 2/13/2020 11:53:52 AM

TABLE 1

SUMMARY OF SOIL ANALYTICAL RESULTS
CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY
CENTRAL VACUUM UNIT 47H
LEA COUNTY, NEW MEXICO

Sample ID	Depth (feet)	Date	Chlorides
			mg/kg
NMOCD Screening Standard			20,000
Restoration Requirements within the Top 4 feet bgs			600
SB-15	4-5	9/12/18	311
	9-10	9/12/18	368
	19-20	9/12/18	134
	29-30	9/12/18	124
	39-40	9/12/18	<5.30
	49-50	9/12/18	<5.29
	59-60	9/12/18	<5.28
	69-70	9/12/18	<5.32
	79-80	9/12/18	<5.28
	89-90	9/12/18	<5.37
SB-16	4-5	9/12/18	625
	9-10	9/12/18	226
	19-20	9/12/18	362
	29-30	9/12/18	5.34
	39-40	9/12/18	38.9
	49-50	9/12/18	24.6
	59-60	9/12/18	35.6
	69-70	9/12/18	10.4
	79-80	9/12/18	6.19
	89-90	9/12/18	25.2
MW-1	4-5	9/12/18	843
	9-10	9/12/18	735
	19-20	9/12/18	2200
	29-30	9/12/18	1430
	39-40	9/12/18	1570
	49-50	9/12/18	3080
	59-60	9/12/18	4210
	69-70	9/12/18	1950
	79-80	9/12/18	3270
	89-90	9/12/18	2760

Notes:
1. All analytical results reported in (mg/kg) milligrams per kilogram
2. Chloride analyses by EPA Method 300
3. Highlighted cells indicate concentrations exceeding screening standards
4. bgs - below ground surface
5. Depth of samples reported in feet
6. * Revised screening limit and restoration criteria per Rule 19.15.29 effective August 14, 2018

Released to Imaging: 8/2/2021 4:21:03 PM

Table 2

Summary of Groundwater Analytical Results
Central Vacuum Unit 47th
Lea County, New Mexico

Well ID	Date	Chloride	TDS
NMWQCC Standards		250 mg/L	1000 mg/L
MW-1	11/7/18	**115**	**678**

NOTES:

NMWQCC - New Mexico Water Quality Control Commission

'mg/L' indicates milligrams per liter

- Chlorides analyzed by EPA Method 300.1

Appendices

Released to Imaging: 8/2/2021 4:21:03 PM

Appendix A
SB-11 through SB-16 Soil Boring Logs

Released to Imaging: 8/2/2021 4:21:03 PM

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: MW-1
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary, and Mud Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	WELL CONSTRUCTION	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
0	CLAYEY SILT (MH-CL): light reddish brown, moist			4	G	1.0		843
10				10	G	1.0		735
20	SANDY SILT (MLS): light greyish brown, moist	20.00		20	G	1.0		2200
30	SILTY SAND (SM): light greyish brown, dry	30.00		30	G	1.0		1430
40				40	G	1.0		1570
50	- light brown, moist		Cement Bentonite Mix 4-inch SCH 40 PVC riser	50	G	1.0		3080
60				60	G	1.0		4210
70				70	G	1.0		1950
80				80	G	1.0		3270
90				90	G	1.0		2760
95								

NOTES: Stratigraphy descriptions are based on drill cuttings. Began mud rotary @ 90 ft. BGS

LABORATORY ANALYSIS

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

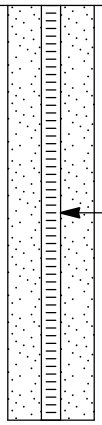
This log should not be used separately from the original report.

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: MW-1
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary, and Mud Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	WELL CONSTRUCTION	SAMPLE DEPTH (ft)	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE PP (tsf)	SAMPLE Chlorides (kg/mg)
105								
110								
115								
120								
125								
130	END OF BOREHOLE @ 130.0ft BGS	130.00						
135								
140								
145								
150								
155								
160								
165								
170								
175								
180								
185								
190								
195								



WELL DETAILS
Screened interval:
100.00 to 130.00ft BGS
Length: 30ft
Slot Size: 0.01
Material: PVC
Seal:
0.00 to 95.00ft BGS
Material: Cement Bentonite Mix
Sand Pack:
95.00 to 130.00ft BGS
Material: 8/16 Silica Sand

BOREHOLE DIAMETER 8 Inch

NOTES: Stratigraphy descriptions are based on drill cuttings. Began mud rotary @ 90 ft. BGS

LABORATORY ANALYSIS

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico

HOLE DESIGNATION: SB-10
DATE COMPLETED: 18 October 2017
DRILLING METHOD: Air Rotary
FIELD PERSONNEL: Rebecca Jones

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE PP (tsf)	SAMPLE Chlorides (kg/mg)
	Top Soil	1.00					
	CALICHE, light brown, dry						
5	SILTY SAND (SM), light brown, some caliche, dry	5.00	4-5		1.0		55
10	CALICHE, white, dry	10.00	9-10		1.0		76
15							
20	SILTY SAND (SM), reddish brown, some caliche, dry	20.00	19-20		1.0		<28
25							
30	SILTY SAND (SM), reddish brown, some caliche, dry	30.00	29-30		1.0		28
35							
40	SILTY SAND (SM), reddish brown, some caliche, dry	40.00	39-40		1.0		<28
45							
50	SILTY SAND (SM), reddish brown, some caliche, dry	50.00	49-50		1.0		<28
55							
60	SILTY SAND (SM), reddish brown, some caliche, dry	60.00	59-60		1.0		<28
65							
70	SILTY SAND (SM), reddish brown, some caliche, dry	70.00	69-70		1.0		<28
75							
80	SILTY SAND (SM), reddish brown, some caliche, damp	80.00	79-80		1.0		<28
85							
90	END OF BOREHOLE @ 90.0ft BGS	90.00	89-90		1.0		<28
95							

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

NOTES:

LABORATORY ANALYSIS ( )

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-11
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
0	SAND (SP): fine, light grey, dry, contains caliche						
5			4	G	1.0		155
10	- increased silt content		10	G	1.0		<5.18
15							
20	SILTY SAND (SM): light grey, dry, contains caliche and gravels	20.00	20	G	1.0		<5.36
25							
30			30	G	1.0		<5.27
35							
40			40	G	1.0		<5.16
45							
50	- yellowish orange, dry		50	G	1.0		<5.28
55							
60			60	G	1.0		<5.28
65							
70			70	G	1.0		<5.2
75							
80	- light brown, moist		80	G	1.0		<5.23
85							
90	END OF BOREHOLE @ 90.0ft BGS	90.00	90	G	1.0		<5.29
95							

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS ( )

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-12
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
	SILTY SAND (SM): brown, dry, contains gravel		4	G	1.0		807
10	- greyish brown, dry, contains gravel		10	G	1.0		816
20	- light grey, dry		20	G	1.0		851
30	- light grey, dry, contains chert gravel		30	G	1.0		661
40	- yellowish orange, dry		40	G	1.0		72.4
50	- yellowish orange, dry, contains gravel		50	G	1.0		56.0
60			60	G	1.0		9.58
70			70	G	1.0		21.0
80			80	G	1.0		<5.30
90	- light brown, moist	90.00	90	G	1.0		<5.26
	END OF BOREHOLE @ 90.0ft BGS						

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS ( )

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-13
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
0	SILTY SAND (SM): very light yellow orange, dry						
5			4	G	1.0		8.79
10			10	G	1.0		55.7
15							
20			20	G	1.0		6.54
25							
30			30	G	1.0		<5.42
35							
40	- yellow orange, dry		40	G	1.0		<5.45
45							
50			50	G	1.0		<5.43
55							
60			60	G	1.0		<5.27
65							
70			70	G	1.0		<5.27
75							
80	- light brown, moist		80	G	1.0		<5.34
85							
90	END OF BOREHOLE @ 90.0ft BGS	90.00	90	G	1.0		<5.29
95							

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS ( )

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-14
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
0	SILTY SAND (SM): very light yellow orange, dry, contains caliche and gravel						
			4	G	1.0		78.5
			10	G	1.0		375
			20	G	1.0		84.4
			30	G	1.0		152
40	- light brown, moist		40	G	1.0		38.7
			50	G	1.0		25.2
			60	G	1.0		23.1
			70	G	1.0		<5.29
			80	G	1.0		<5.32
90	END OF BOREHOLE @ 90.0ft BGS	90.00	90	G	1.0		<5.34

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-15
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
	SILTY SAND (SM): very light grey, dry		4	G	1.0		311
			10	G	1.0		368
			20	G	1.0		134
			30	G	1.0		124
	- yellow orange, moist		40	G	1.0		<5.30
			50	G	1.0		<5.29
			60	G	1.0		<5.28
			70	G	1.0		<5.32
			80	G	1.0		<5.28
	END OF BOREHOLE @ 90.0ft BGS	90.00	90	G	1.0		<5.37

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

STRATIGRAPHIC LOG (OVERBURDEN)

PROJECT NAME: CVU 47H
PROJECT NUMBER: 073821
CLIENT: Chevron
LOCATION: Lea County, New Mexico
DRILLING COMPANY: HCI

HOLE DESIGNATION: SB-16
DATE COMPLETED: 12 September 2018
DRILLING METHOD: Hydro Excavation, Air Rotary
FIELD PERSONNEL: Sean Parry

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE DEPTH (ft)	INTERVAL	REC (ft)	PP (tsf)	Chlorides (kg/mg)
0	SILTY SAND (SM): light grey, dry, contains caliche and gravel		4	G	1.0		625
10	- very light grey, dry, and contains caliche		10	G	1.0		226
20			20	G	1.0		362
30	CHERT AND LIMESTONE: gravel, grey, dry	30.00	30	G	1.0		5.34
40	SANDY SILT (MLS): yellowish orange, dry	40.00	40	G	1.0		38.9
50			50	G	1.0		24.6
60			60	G	1.0		35.6
70			70	G	1.0		10.4
80	- yellowish orange, moist		80	G	1.0		6.19
90	END OF BOREHOLE @ 90.0ft BGS	90.00	90	G	1.0		25.2

NOTES: Stratigraphy descriptions are based on drill cuttings.

LABORATORY ANALYSIS ( )

OVERBURDEN LOG 073821.GPJ CRA_CORP.GDT 5/12/18

This log should not be used separately from the original report.

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
WELL OWNER NAME(S)		PHONE (OPTIONAL)
WELL OWNER MAILING ADDRESS		CITY STATE ZIP

WELL LOCATION (FROM GPS)	DEGREES MINUTES SECONDS	
	LATITUDE N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND
	LONGITUDE W	* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER			NAME OF WELL DRILLING COMPANY
DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
COMPLETED WELL IS:	ARTESIAN	DRY HOLE	SHALLOW (UNCONFINED)	STATIC WATER LEVEL IN COMPLETED WELL (FT)
DRILLING FLUID:	AIR	MUD	ADDITIVES – SPECIFY:	
DRILLING METHOD:	ROTARY	HAMMER	CABLE TOOL	OTHER – SPECIFY:

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	
				☐ Y ☐ N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

PUMP AIR LIFT BAILER OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm):

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE

FOR OSE INTERNAL USE WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

Appendix B
Soil and Groundwater Laboratory Analytical Reports

Released to Imaging: 8/2/2021 4:21:03 PM

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-001		599141-002		599141-003		599141-004		599141-005		599141-006	
	Field Id:	MW1-4-120918		MW1-10-120918		MW1-20-120918		MW1-30-120918		MW1-40-120918		MW1-50-120918	
	Depth:	4-		10-		20-		30-		40-		50-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 09:45		Sep-12-18 09:47		Sep-12-18 09:50		Sep-12-18 09:52		Sep-12-18 09:55		Sep-12-18 09:57	
Chloride by EPA 300	***Extracted:***	Sep-18-18 11:30		Sep-18-18 11:30		Sep-18-18 11:30		Sep-18-18 11:30		Sep-18-18 11:30		Sep-18-18 11:30	
	Analyzed:	Sep-18-18 16:25		Sep-18-18 16:31		Sep-18-18 16:44		Sep-18-18 16:50		Sep-18-18 17:13		Sep-18-18 17:18	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		843	28.1	735	28.6	2200	29.9	1430	26.8	1570	26.6	3080	27.2
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		11.9		13.2		16.6		6.61		6.03		7.95	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-007		599141-008		599141-009		599141-010		599141-011		599141-012	
	Field Id:	MW1-60-120918		MW1-70-120918		MW1-80-120918		MW1-90-120918		SB11-4-120918		SB11-10-120918	
	Depth:	60-		70-		80-		90-		4-		10-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 10:00		Sep-12-18 10:02		Sep-12-18 10:05		Sep-12-18 10:07		Sep-12-18 09:45		Sep-12-18 09:47	
Chloride by EPA 300	***Extracted:***	Sep-18-18 11:30		Sep-18-18 11:30		Sep-18-18 11:30		Sep-18-18 11:30		Sep-18-18 11:30		Sep-18-18 11:30	
	Analyzed:	Sep-18-18 17:35		Sep-18-18 17:41		Sep-18-18 17:47		Sep-18-18 17:52		Sep-18-18 16:56		Sep-18-18 17:58	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		4210	54.0	1950	27.0	3270	25.9	2760	25.9	155	5.05	<5.18	5.18
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8.24		6.90		3.93		3.87		1.28		3.50	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-013		599141-014		599141-015		599141-016		599141-017		599141-018	
	Field Id:	SB11-20-120918		SB11-30-120918		SB11-40-120918		SB11-50-120918		SB11-60-120918		SB11-70-120918	
	Depth:	20-		30-		40-		50-		60-		70-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 09:50		Sep-12-18 09:52		Sep-12-18 09:55		Sep-12-18 09:57		Sep-12-18 10:00		Sep-12-18 10:02	
Chloride by EPA 300	***Extracted:***	Sep-18-18 11:30		Sep-18-18 11:30		Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55	
	Analyzed:	Sep-18-18 18:04		Sep-18-18 18:09		Sep-18-18 18:44		Sep-18-18 19:01		Sep-18-18 19:06		Sep-18-18 19:12	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.36	5.36	<5.27	5.27	<5.16	5.16	<5.28	5.28	<5.28	5.28	<5.20	5.20
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.74		4.68		3.50		4.86		5.27		4.46	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-019		599141-020		599141-021		599141-022		599141-023		599141-024	
	Field Id:	SB11-80-120918		SB11-90-120918		SB12-4-120918		SB12-10-120918		SB12-20-120918		SB12-30-120918	
	Depth:	80-		90-		4-		10-		20-		30-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 10:05		Sep-12-18 10:07		Sep-12-18 11:00		Sep-12-18 11:02		Sep-12-18 11:05		Sep-12-18 11:07	
Chloride by EPA 300	***Extracted:***	Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55	
	Analyzed:	Sep-18-18 19:18		Sep-18-18 19:35		Sep-18-18 19:40		Sep-18-18 19:46		Sep-18-18 19:52		Sep-18-18 19:57	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.23	5.23	<5.29	5.29	807	26.5	816	5.32	851	5.35	661	5.24
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.62		5.04		5.81		6.53		7.40		4.63	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-025		599141-026		599141-027		599141-028		599141-029		599141-030	
	Field Id:	SB12-40-120918		SB12-50-120918		SB12-60-120918		SB12-70-120918		SB12-80-120918		SB12-90-120918	
	Depth:	40-		50-		60-		70-		80-		90-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 11:10		Sep-12-18 11:12		Sep-12-18 11:15		Sep-12-18 11:17		Sep-12-18 11:20		Sep-12-18 11:22	
Chloride by EPA 300	***Extracted:***	Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55	
	Analyzed:	Sep-18-18 20:03		Sep-18-18 20:20		Sep-18-18 20:26		Sep-18-18 20:43		Sep-18-18 20:48		Sep-18-18 20:54	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		72.4	5.26	56.0	5.29	9.58	5.28	21.0	5.23	<5.30	5.30	<5.26	5.26
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.88		5.03		5.31		4.36		5.72		4.87	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-031		599141-032		599141-033		599141-034		599141-035		599141-036	
	Field Id:	SB13-4-120918		SB13-10-120918		SB13-20-120918		SB13-30-120918		SB13-40-120918		SB13-50-120918	
	Depth:	4-		10-		20-		30-		40-		50-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 11:30		Sep-12-18 11:32		Sep-12-18 11:35		Sep-12-18 11:37		Sep-12-18 11:40		Sep-12-18 11:42	
Chloride by EPA 300	***Extracted:***	Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 12:55		Sep-18-18 16:30		Sep-18-18 16:30	
	Analyzed:	Sep-18-18 21:00		Sep-18-18 21:05		Sep-18-18 21:11		Sep-18-18 21:17		Sep-18-18 23:10		Sep-18-18 23:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		8.79	5.20	55.7	5.50	6.54	5.43	<5.42	5.42	<5.45	5.45	<5.43	5.43
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		3.52		10.0		7.37		8.69		7.69		7.93	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-037		599141-038		599141-039		599141-040		599141-041		599141-042	
	Field Id:	SB13-60-120918		SB13-70-120918		SB13-80-120918		SB13-90-120918		SB14-4-120918		SB14-10-120918	
	Depth:	60-		70-		80-		90-		4-		10-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 11:45		Sep-12-18 11:47		Sep-12-18 11:50		Sep-12-18 11:52		Sep-12-18 11:55		Sep-12-18 11:57	
Chloride by EPA 300	***Extracted:***	Sep-18-18 16:30		Sep-18-18 16:30		Sep-18-18 16:30		Sep-18-18 16:30		Sep-18-18 16:30		Sep-18-18 16:30	
	Analyzed:	Sep-18-18 23:33		Sep-18-18 23:50		Sep-18-18 23:56		Sep-19-18 00:01		Sep-19-18 00:07		Sep-19-18 00:13	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.27	5.27	<5.27	5.27	<5.34	5.34	<5.29	5.29	78.5	5.21	375	5.30
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-17-18 16:40		Sep-18-18 10:42		Sep-18-18 10:42	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.90		6.13		5.94		5.96		4.59		5.77	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-043		599141-044		599141-045		599141-046		599141-047		599141-048	
	Field Id:	SB14-20-120918		SB14-30-120918		SB14-40-120918		SB14-50-120918		SB14-60-120918		SB14-70-120918	
	Depth:	20-		30-		40-		50-		60-		70-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 12:00		Sep-12-18 12:02		Sep-12-18 12:05		Sep-12-18 12:07		Sep-12-18 12:10		Sep-12-18 12:12	
Chloride by EPA 300	***Extracted:***	Sep-18-18 16:30		Sep-18-18 16:30		Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45	
	Analyzed:	Sep-19-18 00:18		Sep-19-18 00:24		Sep-19-18 09:46		Sep-19-18 10:03		Sep-19-18 10:09		Sep-19-18 10:14	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		84.4	5.50	152	5.63	38.7	5.33	25.2	5.31	23.1	5.36	<5.29	5.29
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8.54		11.7		6.27		6.23		6.65		5.56	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-049		599141-050		599141-051		599141-052		599141-053		599141-054	
	Field Id:	SB14-80-120918		SB14-90-120918		SB15-4-120918		SB15-10-120918		SB15-20-120918		SB15-30-120918	
	Depth:	80-		90-		4-		10-		20-		30-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 12:15		Sep-12-18 12:17		Sep-12-18 12:35		Sep-12-18 12:37		Sep-12-18 12:40		Sep-12-18 12:42	
Chloride by EPA 300	***Extracted:***	Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45	
	Analyzed:	Sep-19-18 10:20		Sep-19-18 10:37		Sep-19-18 10:43		Sep-19-18 10:48		Sep-19-18 10:54		Sep-19-18 11:00	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.32	5.32	<5.34	5.34	311	5.32	368	5.51	134	5.37	124	5.39
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.03		6.31		5.63		9.65		7.19		6.78	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-055		599141-056		599141-057		599141-058		599141-059		599141-060	
	Field Id:	SB15-40-120918		SB15-50-120918		SB15-60-120918		SB15-70-120918		SB15-80-120918		SB15-90-120918	
	Depth:	40-		50-		60-		70-		80-		90-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 12:45		Sep-12-18 12:47		Sep-12-18 12:50		Sep-12-18 12:52		Sep-12-18 12:55		Sep-12-18 12:57	
Chloride by EPA 300	***Extracted:***	Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45	
	Analyzed:	Sep-19-18 11:05		Sep-19-18 11:22		Sep-19-18 11:28		Sep-19-18 11:45		Sep-19-18 11:51		Sep-19-18 11:56	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		<5.30	5.30	<5.29	5.29	<5.28	5.28	<5.32	5.32	<5.28	5.28	<5.37	5.37
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.92		5.56		6.17		5.47		5.44		7.86	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-061		599141-062		599141-063		599141-064		599141-065		599141-066	
	Field Id:	SB16-4-120918		SB16-10-120918		SB16-20-120918		SB16-30-120918		SB16-40-120918		SB16-50-120918	
	Depth:	4-		10-		20-		30-		40-		50-	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Sep-12-18 13:15		Sep-12-18 13:17		Sep-12-18 13:20		Sep-12-18 13:22		Sep-12-18 13:25		Sep-12-18 13:27	
Chloride by EPA 300	***Extracted:***	Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 08:45		Sep-19-18 12:15		Sep-19-18 12:15	
	Analyzed:	Sep-19-18 12:02		Sep-19-18 12:08		Sep-19-18 12:13		Sep-19-18 12:19		Sep-19-18 12:58		Sep-19-18 13:15	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		625	5.32	226	5.05	362	5.15	5.34	5.06	38.9	5.26	24.6	5.27
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.00		1.89		3.75		2.00		5.18		5.61	

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

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Certificate of Analysis Summary 599141

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Sep-14-18 12:20 pm
Report Date: 27-SEP-18
Project Manager: Debbie Simmons

Analysis Requested													
	Lab Id:	599141-067		599141-068		599141-069		599141-070					
	Field Id:	SB16-60-120918		SB16-70-120918		SB16-80-120918		SB16-90-120918					
	Depth:	60-		70-		80-		90-					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Sep-12-18 13:30		Sep-12-18 13:32		Sep-12-18 13:35		Sep-12-18 13:37					
Chloride by EPA 300	***Extracted:***	Sep-19-18 12:15		Sep-19-18 12:15		Sep-19-18 12:15		Sep-19-18 12:15					
	Analyzed:	Sep-19-18 13:21		Sep-19-18 13:27		Sep-19-18 13:32		Sep-19-18 13:49					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		35.6	5.23	10.4	5.32	6.19	5.28	25.2	5.18				
Percent Moisture	***Extracted:***												
	Analyzed:	Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42		Sep-18-18 10:42					
	Units/RL:	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		5.31		6.15		6.17		4.30					

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

Version: 1.%

Debbie Simmons
Project Manager

Final 1.000

Analytical Report 599141

for

GHD Services, INC- Midland

Project Manager: Scott Foord

CEMC CVU-47H

073821-2018-001

27-SEP-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

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

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-13)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-17)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-16)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

Released to Imaging: 8/2/2021 4:21:03 PM

27-SEP-18

Project Manager: **Scott Foord**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **599141**
CEMC CVU-47H
Project Address:

Scott Foord:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 599141. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 599141 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Debbie Simmons

Debbie Simmons
Project Manager

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

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

Sample Cross Reference 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW1-4-120918	S	09-12-18 09:45	4	599141-001
MW1-10-120918	S	09-12-18 09:47	10	599141-002
MW1-20-120918	S	09-12-18 09:50	20	599141-003
MW1-30-120918	S	09-12-18 09:52	30	599141-004
MW1-40-120918	S	09-12-18 09:55	40	599141-005
MW1-50-120918	S	09-12-18 09:57	50	599141-006
MW1-60-120918	S	09-12-18 10:00	60	599141-007
MW1-70-120918	S	09-12-18 10:02	70	599141-008
MW1-80-120918	S	09-12-18 10:05	80	599141-009
MW1-90-120918	S	09-12-18 10:07	90	599141-010
SB11-4-120918	S	09-12-18 09:45	4	599141-011
SB11-10-120918	S	09-12-18 09:47	10	599141-012
SB11-20-120918	S	09-12-18 09:50	20	599141-013
SB11-30-120918	S	09-12-18 09:52	30	599141-014
SB11-40-120918	S	09-12-18 09:55	40	599141-015
SB11-50-120918	S	09-12-18 09:57	50	599141-016
SB11-60-120918	S	09-12-18 10:00	60	599141-017
SB11-70-120918	S	09-12-18 10:02	70	599141-018
SB11-80-120918	S	09-12-18 10:05	80	599141-019
SB11-90-120918	S	09-12-18 10:07	90	599141-020
SB12-4-120918	S	09-12-18 11:00	4	599141-021
SB12-10-120918	S	09-12-18 11:02	10	599141-022
SB12-20-120918	S	09-12-18 11:05	20	599141-023
SB12-30-120918	S	09-12-18 11:07	30	599141-024
SB12-40-120918	S	09-12-18 11:10	40	599141-025
SB12-50-120918	S	09-12-18 11:12	50	599141-026
SB12-60-120918	S	09-12-18 11:15	60	599141-027
SB12-70-120918	S	09-12-18 11:17	70	599141-028
SB12-80-120918	S	09-12-18 11:20	80	599141-029
SB12-90-120918	S	09-12-18 11:22	90	599141-030
SB13-4-120918	S	09-12-18 11:30	4	599141-031
SB13-10-120918	S	09-12-18 11:32	10	599141-032
SB13-20-120918	S	09-12-18 11:35	20	599141-033
SB13-30-120918	S	09-12-18 11:37	30	599141-034
SB13-40-120918	S	09-12-18 11:40	40	599141-035
SB13-50-120918	S	09-12-18 11:42	50	599141-036
SB13-60-120918	S	09-12-18 11:45	60	599141-037
SB13-70-120918	S	09-12-18 11:47	70	599141-038
SB13-80-120918	S	09-12-18 11:50	80	599141-039
SB13-90-120918	S	09-12-18 11:52	90	599141-040
SB14-4-120918	S	09-12-18 11:55	4	599141-041
SB14-10-120918	S	09-12-18 11:57	10	599141-042
SB14-20-120918	S	09-12-18 12:00	20	599141-043

Version: 1.%

Sample Cross Reference 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

SB14-30-120918	S	09-12-18 12:02	30	599141-044
SB14-40-120918	S	09-12-18 12:05	40	599141-045
SB14-50-120918	S	09-12-18 12:07	50	599141-046
SB14-60-120918	S	09-12-18 12:10	60	599141-047
SB14-70-120918	S	09-12-18 12:12	70	599141-048
SB14-80-120918	S	09-12-18 12:15	80	599141-049
SB14-90-120918	S	09-12-18 12:17	90	599141-050
SB15-4-120918	S	09-12-18 12:35	4	599141-051
SB15-10-120918	S	09-12-18 12:37	10	599141-052
SB15-20-120918	S	09-12-18 12:40	20	599141-053
SB15-30-120918	S	09-12-18 12:42	30	599141-054
SB15-40-120918	S	09-12-18 12:45	40	599141-055
SB15-50-120918	S	09-12-18 12:47	50	599141-056
SB15-60-120918	S	09-12-18 12:50	60	599141-057
SB15-70-120918	S	09-12-18 12:52	70	599141-058
SB15-80-120918	S	09-12-18 12:55	80	599141-059
SB15-90-120918	S	09-12-18 12:57	90	599141-060
SB16-4-120918	S	09-12-18 13:15	4	599141-061
SB16-10-120918	S	09-12-18 13:17	10	599141-062
SB16-20-120918	S	09-12-18 13:20	20	599141-063
SB16-30-120918	S	09-12-18 13:22	30	599141-064
SB16-40-120918	S	09-12-18 13:25	40	599141-065
SB16-50-120918	S	09-12-18 13:27	50	599141-066
SB16-60-120918	S	09-12-18 13:30	60	599141-067
SB16-70-120918	S	09-12-18 13:32	70	599141-068
SB16-80-120918	S	09-12-18 13:35	80	599141-069
SB16-90-120918	S	09-12-18 13:37	90	599141-070

CASE NARRATIVE

Client Name: GHD Services, INC- Midland

Project Name: CEMC CVU-47H

Project ID: *073821-2018-001*
Work Order Number(s): *599141*

Report Date: *27-SEP-18*
Date Received: *09/14/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**MW1-4-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-001	Date Collected:	09.12.18 09.45	Sample Depth:	4
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	11.85
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**843**	28.1	mg/kg	09.18.18 16.25		5

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**MW1-10-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-002	Date Collected:	09.12.18 09.47	Sample Depth:	10
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	13.2
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**735**	28.6	mg/kg	09.18.18 16.31		5

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**MW1-20-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-003	Date Collected:	09.12.18 09.50	Sample Depth:	20
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	16.55
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2200**	29.9	mg/kg	09.18.18 16.44		5

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**MW1-30-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-004	Date Collected:	09.12.18 09.52	Sample Depth:	30
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.61
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1430**	26.8	mg/kg	09.18.18 16.50		5

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**MW1-40-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-005	Date Collected:	09.12.18 09.55	Sample Depth:	40
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.03
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1570**	26.6	mg/kg	09.18.18 17.13		5

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**MW1-50-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-006	Date Collected:	09.12.18 09.57	Sample Depth:	50
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	7.95
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3080**	27.2	mg/kg	09.18.18 17.18		5

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**MW1-60-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-007	Date Collected:	09.12.18 10.00	Sample Depth:	60
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	8.24
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**4210**	54.0	mg/kg	09.18.18 17.35		10

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**MW1-70-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-008	Date Collected:	09.12.18 10.02	Sample Depth:	70
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.9
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**1950**	27.0	mg/kg	09.18.18 17.41		5

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**MW1-80-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-009	Date Collected:	09.12.18 10.05	Sample Depth:	80
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	3.93
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**3270**	25.9	mg/kg	09.18.18 17.47		5

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**MW1-90-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-010	Date Collected:	09.12.18 10.07	Sample Depth:	90
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	3.87
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**2760**	25.9	mg/kg	09.18.18 17.52		5

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB11-4-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-011	Date Collected:	09.12.18 09.45	Sample Depth:	4
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	1.28
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**155**	5.05	mg/kg	09.18.18 16.56		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB11-10-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-012	Date Collected:	09.12.18 09.47	Sample Depth:	10
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	3.5
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.18	5.18	mg/kg	09.18.18 17.58	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB11-20-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-013	Date Collected:	09.12.18 09.50	Sample Depth:	20
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.74
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.36	5.36	mg/kg	09.18.18 18.04	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB11-30-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-014	Date Collected:	09.12.18 09.52	Sample Depth:	30
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	4.68
Analyst:	SCM	Date Prep:	09.18.18 11.30	Basis:	Dry Weight
Seq Number:	3063638				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.27	5.27	mg/kg	09.18.18 18.09	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB11-40-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-015	Date Collected:	09.12.18 09.55	Sample Depth:	40
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	3.5
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.16	5.16	mg/kg	09.18.18 18.44	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB11-50-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-016	Date Collected:	09.12.18 09.57	Sample Depth:	50
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	4.86
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.28	5.28	mg/kg	09.18.18 19.01	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB11-60-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-017	Date Collected:	09.12.18 10.00	Sample Depth:	60
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	5.27
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.28	5.28	mg/kg	09.18.18 19.06	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB11-70-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-018	Date Collected:	09.12.18 10.02	Sample Depth:	70
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	4.46
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.20	5.20	mg/kg	09.18.18 19.12	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB11-80-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-019	Date Collected:	09.12.18 10.05	Sample Depth:	80
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	4.62
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.23	5.23	mg/kg	09.18.18 19.18	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB11-90-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-020	Date Collected:	09.12.18 10.07	Sample Depth:	90
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	5.04
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.29	5.29	mg/kg	09.18.18 19.35	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB12-4-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-021	Date Collected:	09.12.18 11.00	Sample Depth:	4
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	5.81
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**807**	26.5	mg/kg	09.18.18 19.40		5

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB12-10-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-022	Date Collected:	09.12.18 11.02	Sample Depth:	10
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	6.53
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**816**	5.32	mg/kg	09.18.18 19.46		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB12-20-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-023	Date Collected:	09.12.18 11.05	Sample Depth:	20
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	7.4
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**851**	5.35	mg/kg	09.18.18 19.52		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB12-30-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-024	Date Collected:	09.12.18 11.07	Sample Depth:	30
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	4.63
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**661**	5.24	mg/kg	09.18.18 19.57		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB12-40-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-025	Date Collected:	09.12.18 11.10	Sample Depth:	40
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	4.88
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**72.4**	5.26	mg/kg	09.18.18 20.03		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB12-50-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-026	Date Collected:	09.12.18 11.12	Sample Depth:	50
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	5.03
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**56.0**	5.29	mg/kg	09.18.18 20.20		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB12-60-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-027	Date Collected:	09.12.18 11.15	Sample Depth:	60
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	5.31
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**9.58**	5.28	mg/kg	09.18.18 20.26		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB12-70-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-028	Date Collected:	09.12.18 11.17	Sample Depth:	70
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	4.36
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**21.0**	5.23	mg/kg	09.18.18 20.43		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB12-80-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-029	Date Collected:	09.12.18 11.20	Sample Depth:	80
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	5.72
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.30	5.30	mg/kg	09.18.18 20.48	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB12-90-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-030	Date Collected:	09.12.18 11.22	Sample Depth:	90
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	4.87
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.26	5.26	mg/kg	09.18.18 20.54	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB13-4-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-031	Date Collected:	09.12.18 11.30	Sample Depth:	4
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	3.52
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**8.79**	5.20	mg/kg	09.18.18 21.00		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB13-10-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-032	Date Collected:	09.12.18 11.32	Sample Depth:	10
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	10.02
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**55.7**	5.50	mg/kg	09.18.18 21.05		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB13-20-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-033	Date Collected:	09.12.18 11.35	Sample Depth:	20
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	7.37
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.54**	5.43	mg/kg	09.18.18 21.11		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB13-30-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-034	Date Collected:	09.12.18 11.37	Sample Depth:	30
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	8.69
Analyst:	NCM	Date Prep:	09.18.18 12.55	Basis:	Dry Weight
Seq Number:	3063643				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.42	5.42	mg/kg	09.18.18 21.17	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB13-40-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-035	Date Collected:	09.12.18 11.40	Sample Depth:	40
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	7.69
Analyst:	SCM	Date Prep:	09.18.18 16.30	Basis:	Dry Weight
Seq Number:	3063657				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.45	5.45	mg/kg	09.18.18 23.10	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB13-50-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-036	Date Collected:	09.12.18 11.42	Sample Depth:	50
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	7.93
Analyst:	SCM	Date Prep:	09.18.18 16.30	Basis:	Dry Weight
Seq Number:	3063657				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.43	5.43	mg/kg	09.18.18 23.27	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB13-60-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-037	Date Collected:	09.12.18 11.45	Sample Depth:	60
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	5.9
Analyst:	SCM	Date Prep:	09.18.18 16.30	Basis:	Dry Weight
Seq Number:	3063657				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.27	5.27	mg/kg	09.18.18 23.33	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB13-70-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-038	Date Collected:	09.12.18 11.47	Sample Depth:	70
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.13
Analyst:	SCM	Date Prep:	09.18.18 16.30	Basis:	Dry Weight
Seq Number:	3063657				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.27	5.27	mg/kg	09.18.18 23.50	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB13-80-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-039	Date Collected:	09.12.18 11.50	Sample Depth:	80
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	5.94
Analyst:	SCM	Date Prep:	09.18.18 16.30	Basis:	Dry Weight
Seq Number:	3063657				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.34	5.34	mg/kg	09.18.18 23.56	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB13-90-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-040	Date Collected:	09.12.18 11.52	Sample Depth:	90
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	5.96
Analyst:	SCM	Date Prep:	09.18.18 16.30	Basis:	Dry Weight
Seq Number:	3063657				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.29	5.29	mg/kg	09.19.18 00.01	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB14-4-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-041	Date Collected:	09.12.18 11.55	Sample Depth:	4
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	4.59
Analyst:	SCM	Date Prep:	09.18.18 16.30	Basis:	Dry Weight
Seq Number:	3063657				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**78.5**	5.21	mg/kg	09.19.18 00.07		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB14-10-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-042	Date Collected:	09.12.18 11.57	Sample Depth:	10
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	5.77
Analyst:	SCM	Date Prep:	09.18.18 16.30	Basis:	Dry Weight
Seq Number:	3063657				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**375**	5.30	mg/kg	09.19.18 00.13		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB14-20-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-043	Date Collected:	09.12.18 12.00	Sample Depth:	20
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	8.54
Analyst:	SCM	Date Prep:	09.18.18 16.30	Basis:	Dry Weight
Seq Number:	3063657				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**84.4**	5.50	mg/kg	09.19.18 00.18		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB14-30-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-044	Date Collected:	09.12.18 12.02	Sample Depth:	30
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	11.69
Analyst:	SCM	Date Prep:	09.18.18 16.30	Basis:	Dry Weight
Seq Number:	3063657				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**152**	5.63	mg/kg	09.19.18 00.24		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB14-40-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-045	Date Collected:	09.12.18 12.05	Sample Depth:	40
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.27
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**38.7**	5.33	mg/kg	09.19.18 09.46		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB14-50-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-046	Date Collected:	09.12.18 12.07	Sample Depth:	50
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.23
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**25.2**	5.31	mg/kg	09.19.18 10.03		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB14-60-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-047	Date Collected:	09.12.18 12.10	Sample Depth:	60
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.65
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**23.1**	5.36	mg/kg	09.19.18 10.09		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB14-70-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-048	Date Collected:	09.12.18 12.12	Sample Depth:	70
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	5.56
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.29	5.29	mg/kg	09.19.18 10.14	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB14-80-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-049	Date Collected:	09.12.18 12.15	Sample Depth:	80
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.03
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.32	5.32	mg/kg	09.19.18 10.20	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB14-90-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-050	Date Collected:	09.12.18 12.17	Sample Depth:	90
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.31
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.34	5.34	mg/kg	09.19.18 10.37	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB15-4-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-051	Date Collected:	09.12.18 12.35	Sample Depth:	4
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	5.63
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**311**	5.32	mg/kg	09.19.18 10.43		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB15-10-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-052	Date Collected:	09.12.18 12.37	Sample Depth:	10
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	9.65
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**368**	5.51	mg/kg	09.19.18 10.48		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB15-20-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-053	Date Collected:	09.12.18 12.40	Sample Depth:	20
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	7.19
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**134**	5.37	mg/kg	09.19.18 10.54		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB15-30-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-054	Date Collected:	09.12.18 12.42	Sample Depth:	30
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.78
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**124**	5.39	mg/kg	09.19.18 11.00		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB15-40-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-055	Date Collected:	09.12.18 12.45	Sample Depth:	40
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	5.92
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.30	5.30	mg/kg	09.19.18 11.05	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB15-50-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-056	Date Collected:	09.12.18 12.47	Sample Depth:	50
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	5.56
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.29	5.29	mg/kg	09.19.18 11.22	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB15-60-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-057	Date Collected:	09.12.18 12.50	Sample Depth:	60
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6.17
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.28	5.28	mg/kg	09.19.18 11.28	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB15-70-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-058	Date Collected:	09.12.18 12.52	Sample Depth:	70
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	5.47
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.32	5.32	mg/kg	09.19.18 11.45	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB15-80-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-059	Date Collected:	09.12.18 12.55	Sample Depth:	80
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	5.44
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.28	5.28	mg/kg	09.19.18 11.51	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB15-90-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-060	Date Collected:	09.12.18 12.57	Sample Depth:	90
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	7.86
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.37	5.37	mg/kg	09.19.18 11.56	U	1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB16-4-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-061	Date Collected:	09.12.18 13.15	Sample Depth:	4
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	6
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**625**	5.32	mg/kg	09.19.18 12.02		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB16-10-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-062	Date Collected:	09.12.18 13.17	Sample Depth:	10
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	1.89
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**226**	5.05	mg/kg	09.19.18 12.08		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB16-20-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-063	Date Collected:	09.12.18 13.20	Sample Depth:	20
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	3.75
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**362**	5.15	mg/kg	09.19.18 12.13		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB16-30-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-064	Date Collected:	09.12.18 13.22	Sample Depth:	30
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	SCM			% Moisture:	2
Analyst:	SCM	Date Prep:	09.19.18 08.45	Basis:	Dry Weight
Seq Number:	3063790				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**5.34**	5.06	mg/kg	09.19.18 12.19		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB16-40-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-065	Date Collected:	09.12.18 13.25	Sample Depth:	40
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	5.18
Analyst:	SCM	Date Prep:	09.19.18 12.15	Basis:	Dry Weight
Seq Number:	3063794				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**38.9**	5.26	mg/kg	09.19.18 12.58		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB16-50-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-066	Date Collected:	09.12.18 13.27	Sample Depth:	50
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	5.61
Analyst:	SCM	Date Prep:	09.19.18 12.15	Basis:	Dry Weight
Seq Number:	3063794				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**24.6**	5.27	mg/kg	09.19.18 13.15		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB16-60-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-067	Date Collected:	09.12.18 13.30	Sample Depth:	60
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	5.31
Analyst:	SCM	Date Prep:	09.19.18 12.15	Basis:	Dry Weight
Seq Number:	3063794				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**35.6**	5.23	mg/kg	09.19.18 13.21		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB16-70-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-068	Date Collected:	09.12.18 13.32	Sample Depth:	70
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	6.15
Analyst:	SCM	Date Prep:	09.19.18 12.15	Basis:	Dry Weight
Seq Number:	3063794				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**10.4**	5.32	mg/kg	09.19.18 13.27		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB16-80-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-069	Date Collected:	09.12.18 13.35	Sample Depth:	80
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	6.17
Analyst:	SCM	Date Prep:	09.19.18 12.15	Basis:	Dry Weight
Seq Number:	3063794				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**6.19**	5.28	mg/kg	09.19.18 13.32		1

Certificate of Analytical Results 599141

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id:	**SB16-90-120918**	Matrix:	Soil	Date Received:	09.14.18 12.20
Lab Sample Id:	599141-070	Date Collected:	09.12.18 13.37	Sample Depth:	90
Analytical Method:	Chloride by EPA 300			Prep Method:	E300P
Tech:	CHE			% Moisture:	4.3
Analyst:	SCM	Date Prep:	09.19.18 12.15	Basis:	Dry Weight
Seq Number:	3063794				

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**25.2**	5.18	mg/kg	09.19.18 13.49		1

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

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 599141

GHD Services, INC- Midland

CEMC CVU-47H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063638 — Matrix: Solid — Date Prep: 09.18.18
MB Sample Id: 7662528-1-BLK — LCS Sample Id: 7662528-1-BKS — LCSD Sample Id: 7662528-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	261	104	261	104	90-110	0	20	mg/kg	09.18.18 15:17	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063643 — Matrix: Solid — Date Prep: 09.18.18
MB Sample Id: 7662529-1-BLK — LCS Sample Id: 7662529-1-BKS — LCSD Sample Id: 7662529-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	263	105	263	105	90-110	0	20	mg/kg	09.18.18 18:32	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063657 — Matrix: Solid — Date Prep: 09.18.18
MB Sample Id: 7662539-1-BLK — LCS Sample Id: 7662539-1-BKS — LCSD Sample Id: 7662539-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	264	106	264	106	90-110	0	20	mg/kg	09.18.18 21:39	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063790 — Matrix: Solid — Date Prep: 09.19.18
MB Sample Id: 7662569-1-BLK — LCS Sample Id: 7662569-1-BKS — LCSD Sample Id: 7662569-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	244	98	242	97	90-110	1	20	mg/kg	09.19.18 09:35	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063794 — Matrix: Solid — Date Prep: 09.19.18
MB Sample Id: 7662617-1-BLK — LCS Sample Id: 7662617-1-BKS — LCSD Sample Id: 7662617-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	251	100	251	100	90-110	0	20	mg/kg	09.19.18 12:47	

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

QC Summary 599141

GHD Services, INC- Midland

CEMC CVU-47H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063638 — Matrix: Soil — Date Prep: 09.18.18
Parent Sample Id: 598808-055 — MS Sample Id: 598808-055 S — MSD Sample Id: 598808-055 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	20.4	266	306	107	311	109	90-110	2	20	mg/kg	09.18.18 15:34	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063638 — Matrix: Soil — Date Prep: 09.18.18
Parent Sample Id: 599141-011 — MS Sample Id: 599141-011 S — MSD Sample Id: 599141-011 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	155	253	412	102	412	102	90-110	0	20	mg/kg	09.18.18 17:01	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063643 — Matrix: Soil — Date Prep: 09.18.18
Parent Sample Id: 599141-015 — MS Sample Id: 599141-015 S — MSD Sample Id: 599141-015 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.886	258	280	109	280	109	90-110	0	20	mg/kg	09.18.18 18:49	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063643 — Matrix: Soil — Date Prep: 09.18.18
Parent Sample Id: 599141-025 — MS Sample Id: 599141-025 S — MSD Sample Id: 599141-025 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	72.4	263	349	105	347	104	90-110	1	20	mg/kg	09.18.18 20:09	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063657 — Matrix: Soil — Date Prep: 09.18.18
Parent Sample Id: 599141-035 — MS Sample Id: 599141-035 S — MSD Sample Id: 599141-035 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.935	272	278	102	279	103	90-110	0	20	mg/kg	09.18.18 23:16	

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

QC Summary 599141

GHD Services, INC- Midland

CEMC CVU-47H

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063657 — Matrix: Soil — Date Prep: 09.18.18
Parent Sample Id: 599387-001 — MS Sample Id: 599387-001 S — MSD Sample Id: 599387-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	379	250	627	99	633	102	90-110	1	20	mg/kg	09.18.18 21:56	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063790 — Matrix: Soil — Date Prep: 09.19.18
Parent Sample Id: 599141-045 — MS Sample Id: 599141-045 S — MSD Sample Id: 599141-045 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	38.7	267	314	103	314	103	90-110	0	20	mg/kg	09.19.18 09:52	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063790 — Matrix: Soil — Date Prep: 09.19.18
Parent Sample Id: 599141-055 — MS Sample Id: 599141-055 S — MSD Sample Id: 599141-055 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.911	265	269	102	269	102	90-110	0	20	mg/kg	09.19.18 11:11	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063794 — Matrix: Soil — Date Prep: 09.19.18
Parent Sample Id: 599141-065 — MS Sample Id: 599141-065 S — MSD Sample Id: 599141-065 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	38.9	263	308	102	308	102	90-110	0	20	mg/kg	09.19.18 13:04	

Analytical Method: Chloride by EPA 300 — Prep Method: E300P
Seq Number: 3063794 — Matrix: Soil — Date Prep: 09.19.18
Parent Sample Id: 599159-001 — MS Sample Id: 599159-001 S — MSD Sample Id: 599159-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.896	261	258	99	258	99	90-110	0	20	mg/kg	09.19.18 14:24	

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

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

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

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

Final 1.000

QC Summary 599141

GHD Services, INC- Midland

CEMC CVU-47H

Analytical Method: **Percent Moisture**
Seq Number: 3063518 Matrix: Solid
MB Sample Id: 3063518-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	<	%	09.17.18 16:40	

Analytical Method: **Percent Moisture**
Seq Number: 3063520 Matrix: Solid
MB Sample Id: 3063520-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	<	%	09.17.18 16:40	

Analytical Method: **Percent Moisture**
Seq Number: 3063523 Matrix: Solid
MB Sample Id: 3063523-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	<	%	09.18.18 10:42	

Analytical Method: **Percent Moisture**
Seq Number: 3063620 Matrix: Solid
MB Sample Id: 3063620-1-BLK

Parameter	MB Result	Units	Analysis Date	Flag
Percent Moisture	<	%	09.18.18 10:42	

Analytical Method: **Percent Moisture**
Seq Number: 3063518 Matrix: Soil
Parent Sample Id: 599141-001 MD Sample Id: 599141-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	11.9	12.6	6	20	%	09.17.18 16:40	

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

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

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

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

QC Summary 599141

GHD Services, INC- Midland

CEMC CVU-47H

Analytical Method: **Percent Moisture**
Seq Number: 3063518 Matrix: Soil
Parent Sample Id: 599141-011 MD Sample Id: 599141-011 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	1.28	1.33	4	20	%	09.17.18 16:40	

Analytical Method: **Percent Moisture**
Seq Number: 3063520 Matrix: Soil
Parent Sample Id: 599141-021 MD Sample Id: 599141-021 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	5.81	5.85	1	20	%	09.17.18 16:40	

Analytical Method: **Percent Moisture**
Seq Number: 3063520 Matrix: Soil
Parent Sample Id: 599141-031 MD Sample Id: 599141-031 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	3.52	3.69	5	20	%	09.17.18 16:40	

Analytical Method: **Percent Moisture**
Seq Number: 3063523 Matrix: Soil
Parent Sample Id: 599141-041 MD Sample Id: 599141-041 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	4.59	4.30	7	20	%	09.18.18 10:42	

Analytical Method: **Percent Moisture**
Seq Number: 3063523 Matrix: Soil
Parent Sample Id: 599141-051 MD Sample Id: 599141-051 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	5.63	5.62	0	20	%	09.18.18 10:42	

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

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

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

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

QC Summary 599141

GHD Services, INC- Midland

CEMC CVU-47H

Analytical Method: **Percent Moisture**

Seq Number: 3063620 Matrix: Soil

Parent Sample Id: 599141-061 MD Sample Id: 599141-061 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Percent Moisture	6.00	6.07	1	20	%	09.18.18 10:42	

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	

Page 621 of 650

Chain of Custody

Work Order No: 599141

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 7

Project Manager:	Scott Foord	Bill to: (if different)	Cenergy Partners c/o Jason Michaelson
Company Name:	GHD	Company Name:	Chevron Enviromental Management Company
Address:	2135 S. Loop 250 West	Address:	1400 Smith Street, Office 07084
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Houston, TX. 77002
Phone:	713-734-3090	Email:	Christopher.Knight@ghd.com & William.Foord@ghd.com

Work Order Comments

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

Project Name:	CEMC CVU-47H	Turn Around	
Project Number:	073821-2018-001	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Sean Parry	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	4.7|2	Thermometer ID	R8
Received Intact:	(Yes) No		
Cooler Custody Seals:	(Yes) No N/A	Correction Factor:	0.0
Sample Custody Seals:	(Yes) No N/A	Total Containers:	10

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	Chloride	% Moisture	Sample Comments
MW1-4-120918	S	9/12/18	0945	4	1	/	/	
MW1-10-120918			0947	10	1	/	/	
MW1-20-120918			0950	20	1	/	/	
MW1-30-120918			0952	30	1	/	/	
MW1-40-120918			0955	40	1	/	/	
MW1-50-120918			0957	50	1	/	/	
MW1-60-120918			1000	60	1	/	/	
MW1-70-120918			1002	70	1	/	/	
MW1-80-120918			1005	80	1	/	/	
MW1-90-120918			1007	90	1	/	/	

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			9/12/18 5:0	2		9.14.18 12:20
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 95 of 104

Page 622 of 650

Chain of Custody

Work Order No: 599141

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

Project Manager:	Scott Foord	Bill to: (if different)	Cenergy Partners c/o Jason Michaelson
Company Name:	GHD	Company Name:	Chevron Enviromental Management Company
Address:	2135 S. Loop 250 West	Address:	1400 Smith Street, Office 07084
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Houston, TX. 77002
Phone:	713-734-3090 Email:		Christopher.Knight@ghd.com & William.Foord@ghd.com

Work Order Comments

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

Project Name:	CEMC CVU-47H	Turn Around	
Project Number:	073821-2018-001	Routine	X
P.O. Number:		Rush:	
Sampler's Name:	Sean Parry	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	4.7 1.2	Thermometer ID	IR8
Received Intact:	(Yes) No		
Cooler Custody Seals:	(Yes) No N/A	Correction Factor:	0.0
Sample Custody Seals:	(Yes) No N/A	Total Containers:	10

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	Chloride	% Moisture	Sample Comments
~~SB11~~ SB11-4-120918	S	4/12/18	0945	4	1			
SB11-10-120918			0947	10	1			
SB11-20-120918			0950	20	1			
SB11-30-120918			0952	30	1			
SB11-40-120918			0955	40	1			
SB11-50-120918			0957	50	1			
SB11-60-120918			1000	60	1			
SB11-70-120918			1002	70	1			
SB11-80-120918			1005	80	1			
SB11-90-120918			1007	90	1			

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			9/12/18 1706	2		9.14.18 12:20
3				4		
5				6		

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 96 of 104

Page 623 of 650

Chain of Custody

Work Order No: 599141

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:	Scott Foord	Bill to: (if different)	Cenergy Partners c/o Jason Michaelson
Company Name:	GHD	Company Name:	Chevron Enviromental Management Company
Address:	2135 S. Loop 250 West	Address:	1400 Smith Street, Office 07084
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Houston, TX. 77002
Phone:	713-734-3090 Email:		Christopher.Knight@ghd.com & William.Foord@ghd.com

Work Order Comments

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

Project Name:	CEMC CVU-47H	Turn Around	
Project Number:	073821-2018-001	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Sean Parry	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	4.7 1.2	Thermometer ID	R8	
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.0	
Sample Custody Seals:	Yes No N/A	Total Containers:	10	

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	Chloride	% Moisture
SB12-4-120918	S	9/12/18	1100	4	1		
SB12-10-120918			1102	10	1		
SB12-20-120918			1105	20	1		
SB12-30-120918			1107	30	1		
SB12-40-120918			1110	40	1		
SB12-50-120918			1112	50	1		
SB12-60-120918			1115	60	1		
SB12-70-120918			1117	70	1		
SB12-80-120918			1120	80	1		
SB12-90-120918			1122	90	1		

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			9/12/18 1706	2		9.14.18
3				4		12:20
5				6		

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 97 of 104

Page 624 of 650

Chain of Custody

Work Order No: 599141

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:	Scott Foord	Bill to: (if different)	Cenergy Partners c/o Jason Michaelson
Company Name:	GHD	Company Name:	Chevron Enviromental Management Company
Address:	2135 S. Loop 250 West	Address:	1400 Smith Street, Office 07084
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Houston, TX. 77002
Phone:	713-734-3090	Email:	Christopher.Knight@ghd.com & William.Foord@ghd.com

Work Order Comments

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

Project Name:	CEMC CVU-47H	Turn Around	
Project Number:	073821-2018-001	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Sean Parry	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	4/1.2	Thermometer ID	IR8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	(Yes) No N/A	Correction Factor:	0.0	
Sample Custody Seals:	(Yes) No N/A	Total Containers:	10	

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	Chloride	% Moisture
SB13-4-120918	S	9/12/18	1130	4	1	✓	✓
SB13-10-120918			1132	10	1	✓	✓
SB13-20-120918			1135	20	1	✓	✓
SB13-30-120918			1137	30	1	✓	✓
SB13-40-120918			1140	40	1	✓	✓
SB13-50-120918			1142	50	1	✓	✓
SB13-60-120918			1145	60	1	✓	✓
SB13-70-120918			1147	70	1	✓	✓
SB13-80-120918			1150	80	1	✓	✓
SB13-90-120918			1152	90	1	✓	✓

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			9/12/18 1706	2		9-14-18 12:20
3				4		
5				6		

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 98 of 104

Page 625 of 650

Chain of Custody

Work Order No: 599141

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 5 of 7

Project Manager:	Scott Foord	Bill to: (if different)	Cenergy Partners c/o Jason Michaelson
Company Name:	GHD	Company Name:	Chevron Enviromental Management Company
Address:	2135 S. Loop 250 West	Address:	1400 Smith Street, Office 07084
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Houston, TX. 77002
Phone:	713-734-3090 Email:		Christopher.Knight@ghd.com & William.Foord@ghd.com

Work Order Comments

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

Project Name:	CEMC CVU-47H	Turn Around	
Project Number:	073821-2018-001	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Sean Parry	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):	4.7.2	Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.0	
Sample Custody Seals:	Yes No N/A	Total Containers:	10	

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	Chloride	% Moisture	Sample Comments
SB14-4-120918	S	9/12/18	1155	4	1			
SB14-10-120918			1157	10	1			
SB14-20-120918			1200	20	1			
SB14-30-120918			1202	30	1			
SB14-40-120918			1205	40	1			
SB14-50-120918			1207	50	1			
SB14-60-120918			1210	60	1			
SB14-70-120918			1212	70	1			
SB14-80-120918			1215	80	1			
SB14-90-120918			1217	90	1			

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		9/12/18 1706	2		9.14.18 12:20
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 99 of 104

Page 626 of 650

Chain of Custody

Work Order No: 599141

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:	Scott Foord	Bill to: (if different)	Cenergy Partners c/o Jason Michaelson
Company Name:	GHD	Company Name:	Chevron Enviromental Management Company
Address:	2135 S. Loop 250 West	Address:	1400 Smith Street, Office 07084
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Houston, TX. 77002
Phone:	713-734-3090 Email:		Christopher.Knight@ghd.com & William.Foord@ghd.com

Work Order Comments

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

Project Name:	CEMC CVU-47H	Turn Around	
Project Number:	073821-2018-001	Routine ☒	
P.O. Number:		Rush:	
Sampler's Name:	Sean Parry	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	4.7/1.2	Thermometer ID	IR8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	(Yes) No N/A	Correction Factor:	0.0	
Sample Custody Seals:	(Yes) No N/A	Total Containers:	10	

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	Chloride	% Moisture	Sample Comments
SB15-4-120918	S	9/12/18	1235	4	1	✓	✓	
SB15-10-120918			1237	10	1	✓	✓	
SB15-20-120918			1240	20	1	✓	✓	
SB15-30-120918			1242	30	1	✓	✓	
SB15-40-120918			1245	40	1	✓	✓	
SB15-50-120918			1247	50	1	✓	✓	
SB15-60-120918			1250	60	1	✓	✓	
SB15-70-120918			1252	70	1	✓	✓	
SB15-80-120918			1255	80	1	✓	✓	
SB15-90-120918	↓	↓	1257	90	1	✓	✓	

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		9/12/18 1706	2		9.14.18 12:20
3			4		
5			6		

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 100 of 104

Page 627 of 650

Chain of Custody

Work Order No: 599141

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:	Scott Foord	Bill to: (if different)	Cenergy Partners c/o Jason Michaelson
Company Name:	GHD	Company Name:	Chevron Enviromental Management Company
Address:	2135 S. Loop 250 West	Address:	1400 Smith Street, Office 07084
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Houston, TX. 77002
Phone:	713-734-3090 Email:		Christopher.Knight@ghd.com & William.Foord@ghd.com

Work Order Comments

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

Project Name:	CEMC CVU-47H	Turn Around	
Project Number:	073821-2018-001	Routine ☐	
P.O. Number:		Rush:	
Sampler's Name:	Sean Parry	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Temperature (°C):	4.7 | 2	Thermometer ID	IR8	
Received Intact:	(Yes) No			
Cooler Custody Seals:	(Yes) No N/A	Correction Factor:	0.0	
Sample Custody Seals:	(Yes) No N/A	Total Containers:	10	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	% Moisture
SB16-4-120918	S	9/12/18	1315	4	1	✓	✓
SB16-10-120918			1317	10	1	✓	✓
SB16-20-120918			1320	20	1	✓	✓
SB16-30-120918			1322	30	1	✓	✓
SB16-40-120918			1325	40	1	✓	✓
SB16-50-120918			1327	50	1	✓	✓
SB16-60-120918			1330	60	1	✓	✓
SB16-70-120918			1332	70	1	✓	✓
SB16-80-120918			1335	80	1	✓	✓
SB16-90-120918			1337	90	1	✓	✓

ANALYSIS REQUEST

Work Order Notes

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

Sample Comments

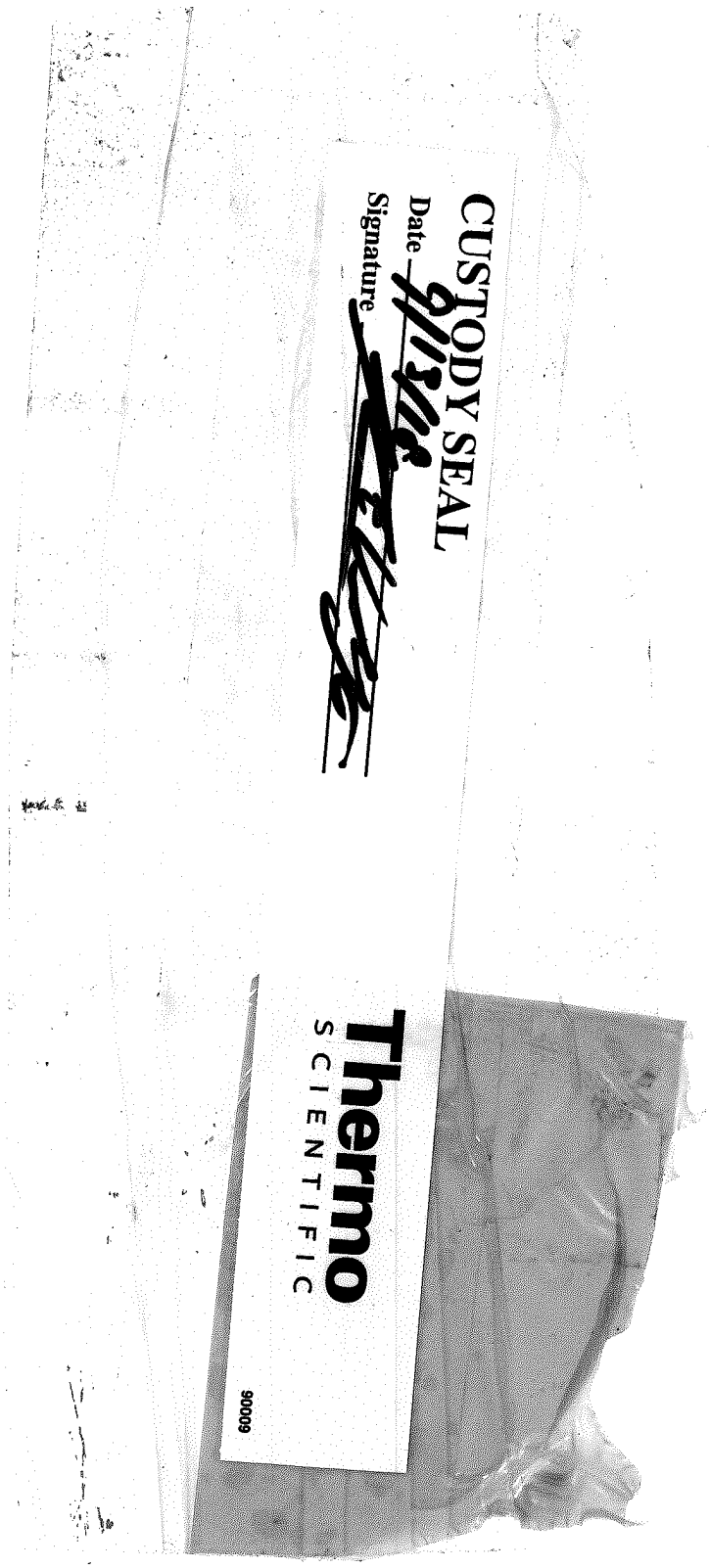
Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

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		9/12/18 1706	2		9.14.18 12:20
3			4		
5			6		

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 101 of 104


CUSTODY SEAL
Date
Signature
Thermo
SCIENTIFIC
90006



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

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

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 09/14/2018 12:20:00 PM

Work Order #: 599141

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

Temperature Measuring device used : R8

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

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

Analyst: PH Device/Lot#:

Checklist completed by: Shawnee Gomez Date: 09/14/2018

Checklist reviewed by: Debbie Simmons Date: 09/18/2018

Debbie Simmons

Certificate of Analysis Summary 604312

GHD Services, INC- Midland, Midland, TX

Project Name: CEMC CVU-47H

Project Id: 073821-2018-001
Contact: Scott Foord
Project Location:

Date Received in Lab: Fri Nov-02-18 11:15 am
Report Date: 13-NOV-18
Project Manager: Debbie Simmons

Analysis Requested								
	Lab Id:	604312-001						
	Field Id:	MW-1-W-181031						
	Depth:							
	Matrix:	GROUND WATER						
	Sampled:	Oct-31-18 17:50						
Chloride by EPA 300	***Extracted:***	Nov-07-18 10:00						
	Analyzed:	Nov-07-18 16:17						
	Units/RL:	mg/L	RL					
Chloride		115	2.50					
TDS by SM2540C	***Extracted:***							
	Analyzed:	Nov-07-18 09:00						
	Units/RL:	mg/L	RL					
Total Dissolved Solids		678	5.00					

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

Debbie Simmons
Project Manager

Analytical Report 604312

for

GHD Services, INC- Midland

Project Manager: Scott Foord

CEMC CVU-47H

073821-2018-001

13-NOV-18

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-18-28), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054)
Oklahoma (2017-142)

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

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-18-14)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-18-18)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-18-18)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-18-4)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Phoenix Mobile (EPA Lab Code: AZ00901): Arizona (AZM757)
Xenco-Atlanta (LELAP Lab ID #04176)
Xenco-Tampa: Florida (E87429)
Xenco-Lakeland: Florida (E84098)

13-NOV-18

Project Manager: **Scott Foord**
GHD Services, INC- Midland
2135 S Loop 250 W
Midland, TX 79703

Reference: XENCO Report No(s): **604312**
CEMC CVU-47H
Project Address:

Scott Foord:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 604312. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 604312 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Debbie Simmons

Debbie Simmons
Project Manager

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

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

Sample Cross Reference 604312

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1-W-181031	W	10-31-18 17:50		604312-001

CASE NARRATIVE

Client Name: GHD Services, INC- Midland

Project Name: CEMC CVU-47H

Project ID: *073821-2018-001*
Work Order Number(s): *604312*

Report Date: *13-NOV-18*
Date Received: *11/02/2018*

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Certificate of Analytical Results 604312

GHD Services, INC- Midland, Midland, TX

CEMC CVU-47H

Sample Id: **MW-1-W-181031** Matrix: Ground Water Date Received:11.02.18 11.15

Lab Sample Id: 604312-001 Date Collected: 10.31.18 17.50

Analytical Method: Chloride by EPA 300 Prep Method: E300P

Tech: CHE % Moisture:

Analyst: CHE Date Prep: 11.07.18 10.00

Seq Number: 3069004

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	**115**	2.50	mg/L	11.07.18 16.17		5

Analytical Method: TDS by SM2540C

Tech: OJS % Moisture:

Analyst: OJS

Seq Number: 3068876

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Total Dissolved Solids	1642222	**678**	5.00	mg/L	11.07.18 09.00		1

Flagging Criteria

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

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

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

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

F RPD exceeded lab control limits.

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

U Analyte was not detected.

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

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

K Sample analyzed outside of recommended hold time.

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

** Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

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 604312

GHD Services, INC- Midland

CEMC CVU-47H

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3069004 Matrix: Water Date Prep: 11.07.18
MB Sample Id: 7665626-1-BLK LCS Sample Id: 7665626-1-BKS LCSD Sample Id: 7665626-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<0.500	25.0	24.1	96	24.2	97	90-110	0	20	mg/L	11.07.18 11:17	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3069004 Matrix: Drinking Water Date Prep: 11.07.18
Parent Sample Id: 604625-001 MS Sample Id: 604625-001 S MSD Sample Id: 604625-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.25	25.0	34.6	105	34.7	106	90-110	0	20	mg/L	11.07.18 11:48	

Analytical Method: **Chloride by EPA 300** Prep Method: E300P
Seq Number: 3069004 Matrix: Drinking Water Date Prep: 11.07.18
Parent Sample Id: 604651-001 MS Sample Id: 604651-001 S MSD Sample Id: 604651-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	10.5	25.0	37.9	110	37.9	110	90-110	0	20	mg/L	11.07.18 14:13	

Analytical Method: **TDS by SM2540C**
Seq Number: 3068876 Matrix: Water
MB Sample Id: 3068876-1-BLK LCS Sample Id: 3068876-1-BKS LCSD Sample Id: 3068876-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	946	95	950	95	80-120	0	10	mg/L	11.07.18 09:00	

Analytical Method: **TDS by SM2540C**
Seq Number: 3068876 Matrix: Ground Water
Parent Sample Id: 604312-001 MD Sample Id: 604312-001 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	678	666	2	10	mg/L	11.07.18 09:00	

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

QC Summary 604312

GHD Services, INC- Midland

CEMC CVU-47H

Analytical Method: **TDS by SM2540C**

Seq Number: 3068876 Matrix: Ground Water

Parent Sample Id: 604387-011 MD Sample Id: 604387-011 D

Parameter	Parent Result	MD Result	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	559	594	6	10	mg/L	11.07.18 09:00	

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

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

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

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

Page 640 of 650

Chain of Custody

Work Order No: 604312

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:	Scott Foord	Bill to: (if different)	Jason Michaelson
Company Name:	GHD	Company Name:	Chevron Enviromental Management Company
Address:	2135 S. Loop 250 West	Address:	1400 Smith Street, Office 07094
City, State ZIP:	Midland, TX. 79703	City, State ZIP:	Houston, TX. 77002
Phone:	713-734-3090 or 281-725-7477	Email:	William.Foord@ghd.com & Christopher.Knight@ghd.com & Megan.Willis@ghd.com

Work Order Comments

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

State of Project:

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

Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	CEMC CVU-47H	Turn Around	
Project Number:	073821-2018-001	Routine	☑
P.O. Number:		Rush:	
Sampler's Name:	Justin Nixon	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	1.5	Thermometer ID	
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.0
Sample Custody Seals:	Yes No N/A	Total Containers:	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	Chloride	TDS
mw-w-181031	GW	10.31.18	1750		1	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		11-2-18 1115	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Received by OCD: 2/13/2020 11:53:52 AM
Released to Imaging: 8/2/2021 4:21:03 PM
Final 1.000
Page 10 of 11

XENCO Laboratories

Prelogin/Nonconformance Report- Sample Log-In

Client: GHD Services, INC- Midland

Date/ Time Received: 11/02/2018 11:15:00 AM

Work Order #: 604312

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

Temperature Measuring device used : R8

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

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

Analyst: BT

PH Device/Lot#: A032690

Checklist completed by: Brianna Teel Date: 11/02/2018

Brianna Teel

Checklist reviewed by: Debbie Simmons Date: 11/02/2018

Debbie Simmons

Appendix C
2019 Work Plan

Released to Imaging: 8/2/2021 4:21:03 PM

Draft for Review

This document is in draft form. A final version of this document may differ from this draft. As such, the contents of this draft document shall not be relied upon. GHD disclaims any responsibility or liability arising from decisions made based on this draft document.

March 5, 2019 Reference No. 073821

New Mexico Oil Conservation Division – District 1
1625 N. French Drive
Hobbs, New Mexico 88240

To Whom It May Concern:

Re: 2019 Remediation Work Plan
Central Vacuum Unit No. 47H – Produced Water Release (RP-1483)
Lea County, New Mexico

The Site is located in Unit A, Section 31, Township 17 South, Range 35 East, approximately 0.94-miles southeast of Buckeye, in central Lea County, New Mexico. Remediation Permit (RP) Number 1483 (RP-1483) was assigned by the New Mexico Oil Conservation Division (NMOCD) District I, Hobbs, New Mexico office.

1. Regulatory Criteria

Soil

Historical subsurface investigation activities were completed in accordance with the Guidelines for Remediation of Leaks, Spills, and Releases Rule 19.15.29 New Mexico Administrative Code (NMAC) from the New Mexico Oil Conservation Division (NMOCD) dated August 13, 1993. The former site-specific Recommended Remediation Action Levels (RRALs) previously applied to this location by the NMOCD were 10 milligrams per kilogram (mg/kg) for benzene, 50 mg/kg for total BTEX, 100 mg/kg for total TPH, and 600 mg/kg for chloride.

Rule 19.15.29 was revised and reissued on August 14, 2018. The following criteria from Table 1 (below) within NMAC 19.15.29.12 was utilized to determine site-specific screening limits.

Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Limit*
>100 feet	Chloride**	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

* Numerical limits or natural background level, whichever is greater.

** This applies to release of produced water or other fluids which may contain chloride.

GHD
6320 Rothway Street Suite 100 Houston Texas 77040 USA
T 713 734 3090 F 713 734 3391 W http://www.ghd.com/

Localized depth to groundwater was confirmed to be approximately 106 feet below ground surface (bgs) in 2018 based on the information from monitoring well MW-1. Additionally, information available from various sources including the Petroleum Recovery Research Center (PRRC) Mapping Portal, currently managed groundwater site(s) data by GHD, and the United States Geological Survey (USGS) Current Water Database for the Nation, concludes:

a) the depth to groundwater at the Site is greater than 100-feet bgs;

b) the site is not within 300 feet of any continuously flowing watercourse;

c) the site is not within 200 feet of any lakebed, sinkhole or playa lake;

d) the site is not within 300 feet of an occupied permanent residence, school, etc.;

e) the site is not within 500 feet of a spring or private, domestic fresh water well;

f) the site is not within 1,000 feet of any fresh water well or spring;

g) the site is not within incorporated municipal boundaries or within a defined municipal fresh water well field;

h) the site is not within 300 feet of a wetland;

i) the site is not within an area overlying a subsurface mine;

j) the site is not within an unstable area; and

k) the site is not within a 100-year floodplain.

Consequently, the anticipated site-specific screening limits to be applied to this location by the NMOCD based on the revised Rule are 10 mg/kg for benzene, 50 mg/kg for total BTEX, 2,500 mg/kg for total TPH, and 20,000 mg/kg for chloride.

Per 19.15.29.13, Restoration, Reclamation, and Re-vegetation, the impacted area must be remediated a minimum of 4-feet bgs with non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg. Soil cover must consist of topsoil at a thickness comparable to background topsoil thicknesses, or one foot of suitable earthen material capable of establishing and maintaining vegetation at the site. Reclamation is considered complete when all disturbed areas have established vegetative cover with a life-form ratio of plus or minus 50 percent of pre-remedial levels, and plant cover of a minimum of 70 percent of previous levels, excluding noxious weeds.

Evaluation of the analytical data obtained from soil assessment and delineation activities performed from 2014 through 2018 indicate horizontal and vertical delineation of chloride impacts has been achieved at the Site to support remediation activities (excavation and lining of the area).

2. 2019 Scope of Work

The scope of work for this project in 2019 will involve soil remediation activities inclusive of excavation, sampling, lining the excavation, backfilling, and restoration (re-seeding of off-pad areas) of the impacted area (see Figure 1).

Chloride impacted caliche well pad material and soil will be excavated accompanied by confirmation soil sample analysis. Field screening of soils for chloride will be performed in order to guide excavation activities. Subsequently, the excavation will be lined, backfilled with clean caliche material and soil, graded and contoured to ensure proper surface area drainage, and the soil (off-pad areas) fertilized and re-seeded. The following outlines basic project details that will be completed by GHD and GHD subcontractors.

Field Program

- Prior to mobilizing excavation equipment to the Site, a New Mexico 811 utility notification will be made at least 48-hours prior to mobilization.
- In addition to the utility locate, data from the geophysical survey conducted prior to 2018 drilling activities will be re-evaluated for the proposed excavation area.
- Following all utility clearance activities, a Chevron Dig Plan will be prepared and approved by Chevron prior to performing any excavation activities.
- Underground utilities in proximity to the proposed excavation area will be day-lighted via hydroexcavation prior to remedial excavation activities.
- Approximately 2,350 cubic yards (cy) of shallow sub -surface area consisting of caliche well pad materials and off-pad soil areas will be excavated (Figure 1). Impacted soil in the affected area will be excavated until field screening indicates that the soil is below the limit for chloride (600 mg/kg) specified in NMMAC 19.15.29.13 D (1), or until a depth of 4 feet bgs is reached.
- Soils will be field screened for chloride during excavation activities utilizing Hach chloride test strips. Soils with field test results greater than 3,000 mg/kg chloride with be transported to an approved disposal facility. If field screening indicates that soils are below 3,000 mg/kg chloride, it will be segregated into 50 cy stockpiles and a 5-point composite sample will be collected and analyzed for chloride by EPA Method 300. Soils with analytical results above 600 mg/kg will be transported to an approved disposal facility. Stockpiled soils with analytical results below 600 mg/kg will be further consolidated on-site for use as backfill.
- Five-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at 200 square feet intervals for analysis of chloride by EPA Method 300. Lateral limits of the excavation will halt once confirmation sample analytical results are 600 mg/kg chloride or less.
- If impacts appear to extend past four feet bgs, the sides of the excavation will be sloped and a 20-mil polyethylene liner will be placed in the bottom of the excavation. Liner seams will be overlapped a minimum of 24 inches. Each liner will be placed without rips or tears.

Released to Imaging: 8/2/2021 4:21:03 PM

- The excavation will be backfilled with caliche and soil from an off-site borrow pit to grade.
- The disturbed off-pad area will be fertilized and re-seeded with a Bureau of Land Management-approved seed mix.

Quality Assurance/ Quality Control

Confirmation soil sampling will be completed in accordance with our standard Quality Assurance/ Quality Control procedures designed to minimize cross-contamination between samples and to provide reliable laboratory results.

Reporting

A report summarizing remediation activities will be submitted. The report will include a Site description, project history, description of field events, a discussion of results, and recommendations (if any).

The report will include:

- A scaled Site plan showing the locations of the excavation and other Site features;
- Tabulation of field screening and laboratory analytical results; and
- Geotagged photographic documentation of field activities.

Vegetation Monitoring

Following completion of soil remediation activities at the Site, and as required by the New Mexico State Land Office (NMSLO), GHD will conduct vegetation monitoring visits to the Site. The status of vegetative growth within the remediated area will be documented with photographs and in field notes during each visit. A closure request report will be completed following one year of monitoring for submittal to NMSLO.

3. Work Plan Approval Request

GHD is prepared to initiate the scope of work immediately. If you have any questions or comments with regards to this work plan, please do not hesitate to contact our Houston office at (713) 734-3090. Your timely response to this correspondence is appreciated.

Released to Imaging: 8/2/2021 4:21:03 PM

Sincerely,

GHD

Scott Foord, P.G.
Project Manager

SF/mss/1

Encl.

Attachment: Figure 1 – Proposed Excavation Map

Released to Imaging: 8/2/2021 4:21:03 PM

Page 648 of 650

NOTES:

1. Soil concentrations presented in milligrams per kilogram (mg/kg).
2. Groundwater concentrations presented in milligrams per liter (mg/L).
3. Highlighted cells indicate concentrations exceeding guidance screening criteria of 600 mg/kg depicted in 19.15.29.13 NMAC within the first 4' bgs for chloride.
4. Floor Sample-031015 indicates a 5-point composite sample of excavation floor.
5. Depicted remedial closure activity boundaries pretain to previously submitted pit closure report under NMOCD C-144 Form.

Floor Sample-031015[3]	
Date	03/15/15
Depth	Surface
BTEX	<0.00128
TPH (GRO & DRO)	<19.2
Chloride	4.38

NE-47H-031915	
Date	03/19/15
Depth	5'
Chloride	15.4

E-47H-031915	
Date	03/19/15
Depth	5'
Chloride	15.7

SE-47H-031915	
Date	03/19/15
Depth	5'
Chloride	13.6

NE-47H
E-47H
SE-47H

SB-13 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	8.79	55.7	6.54	<5.42	<5.45	<5.43	<5.27	<5.27	<5.34	<5.29

SB-13

MW-1 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	843	735	2,200	1,430	1,570	3,080	4,210	1,950	3,270	2,760

SB-7 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	1,180	475	966	1,940	1,020	848	625	114	58.7	58.5	62.4

SB-11 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	155	<5.18	<5.36	<5.27	<5.16	<5.28	<5.28	<5.20	<5.23	<5.29

SB-11

SB-5 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	29-30'
Chloride	3,760	585	167	135	17.4

SB-14 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	78.5	375	84.4	152	38.7	25.2	23.1	<5.29	<5.32	<5.34

SB-14

SB-5

SB-6

SB-7

MW-1

SB-6 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	19-20'*	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	1,970	384	229	542	536*	417	507	489	541	867	1,140	1,120

SB-4 12/17/12

Depth	10'	20'	30'	40'	50'
Chloride	1,230	754	274	209	87.3

SB-4

MW-1	10/31/18
Chloride	115
TDS	678

SB-12 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	807	816	851	661	72.4	56	9.58	21	<5.30	<5.26

SB-12

SB-15 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	311	368	134	124	<5.30	<5.29	<5.28	<5.32	<5.28	<5.37

SB-15

SB-2

SB-3

SB-2 08/19/15

Depth	0'	5'	10'	15'	20'	30'	40'	50'	60'	80'
Chloride	1,540	1,470	462	611	680	306	539	554	1,090	101

SB-3 12/17/12

Depth	10'	20'	30'	40'	50'
Chloride	1,250	906	537	1,360	1,430

SB-8

SB-9

SB-1

SB-10

SB-8 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	29-30'	39-40'
Chloride	11.7	108	1,570	28.8	125	41.5

SB-9 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	29-30'
Chloride	210	290	495	227	12.7

SB-10 10/18/17

Depth	0.5-1'	4-5'	9-10'	19-20'	29-30'
Chloride	39.8	243	322	39.2	108

SB-16

SB-16 09/12/18

Depth	4-5'	9-10'	19-20'	29-30'	39-40'	49-50'	59-60'	69-70'	79-80'	89-90'
Chloride	625	226	362	5.34	38.9	24.6	35.6	10.4	6.19	25.2

SB-1 08/19/15

Depth	0'	5'	10'	15'	20'	30'	40'	50'
Chloride	75.7	421	17.8	123	97.0	93.7	68.9	15.5

LEGEND

- Soil Boring Location - 2012
- Soil Boring Location - 2015
- Soil Boring Location - 2017
- Soil Boring Location - 2018
- Monitoring Well Location - 2018
- Excavated Sidewall Sample Location
- 5-point Composite Sample Location
- Approximate Boundary of Remedial Closure Activities
- Approximate Excavated Area
- Proposed Excavation Limits (1ft)
- Backfill and Remediated Area
- Depth — Depth of Sample (ft)
- BTEX — Benzene, Toluene, Ethylbenzene and Xylenes Concentration
- TPH — Total Petroleum Hydrocarbons Concentration
- DRO — TPH as Diesel Range Organics
- GRO — TPH as Gasoline Range Organics
- * — Indicates Duplicate Sample

Source: UDSA FSA Imagery, May 10, 2014

Lat/Long: 32.7970° North, 103.4906° West

0 20 40ft

Coordinate System:
NAD 1983 StatePlane-
New Mexico East (US Feet)

Sample ID — SB-4 12/17/12 — Sample Date
Depth 10' — Sample Depth (ft)
Chloride 1,230 — Sample Result (mg/kg)

GHD

CEMC
LEA COUNTY, NEW MEXICO
CENTRAL VACUUM UNIT No. 47H

073821-00

Dec 5, 2018

PROPOSED EXCAVATION AREA

FIGURE 1

CAD File: I:\CAD\Files\07----\073---\073821-Chevron-Central Vacuum Unit #47H\Proposed\073821-00(Proposed-02)GN-DL001.dwg

Received by OCD: 2/13/2020 11:53:52 AM

Released to Imaging: 8/2/2021 4:21:03 PM



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

Scott Foord
Scott.Foord@ghd.com
713.734.3090

Raaj Patel
Raaj.Patel@ghd.com
713.734.3090

www.ghd.com

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

Operator: Arcadis U.S., Inc 630 Plaza Drive Highlands Ranch, CO 80129	OGRID: 329073
	Action Number: 3888
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	Closure if for CVU #47	8/2/2021