

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nRM2019533126
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Spur Energy Partners LLC	OGRID: 328947
Contact Name: Braidy Moulder	Contact Telephone: 281-795-2286
Contact email: bmoulder@spurepllc.com	Incident # (assigned by OCD)
Contact mailing address: 920 Memorial CityWay, Suite 1400, Houston TX 77024	

Location of Release Source

Latitude 32.609396 Longitude -104.472487
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Huber Federal #010H Water Line Release	Site Type: Pipeline
Date Release Discovered: 6/30/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
L2	3	20 S	25 E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 23	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A 4" poly pipe line fuse broke on a water transfer line, the line was isolated to shut off flow

State of New Mexico
Oil Conservation Division

Incident ID	
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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? No
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

☒ The source of the release has been stopped.	
☒ The impacted area has been secured to protect human health and the environment.	
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
☒ All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Joseph Guesnier</u>	Title: <u>Staff Scientist</u>
Signature: <u>[Signature]</u>	Date: <u>7-2-20</u>
email: <u>JRGuesnier@TerraLON.com</u>	Telephone: <u>806-544-9276</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	
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Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?

121 (ft bgs)

Did this release impact groundwater or surface water?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?

☐ Yes ☒ No

Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?

☐ Yes ☒ No

Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?

☐ Yes ☒ No

Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?

☐ Yes ☒ No

Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?

☐ Yes ☒ No

Are the lateral extents of the release within 300 feet of a wetland?

☐ Yes ☒ No

Are the lateral extents of the release overlying a subsurface mine?

☐ Yes ☒ No

Are the lateral extents of the release overlying an unstable area such as karst geology?

☒ Yes ☐ No

Are the lateral extents of the release within a 100-year floodplain?

☐ Yes ☒ No

Did the release impact areas **not** on an exploration, development, production, or storage site?

☒ Yes ☐ No

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

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

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

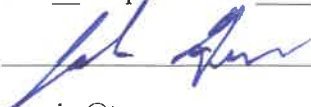
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico
Oil Conservation Division

Incident ID	
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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: Joseph Guesnier Title: Staff Scientist

Signature:  Date: 3/3/2021

email: jrguesnier@terracon.com Telephone: 806-300-0140

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
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Facility ID	
Application ID	

Remediation Plan

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

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Joseph J. Presing Title: Staff Scientist
Signature: [Signature] Date: 3-3-2021
email: JRPresing@OCD.nm.gov Telephone: 806-300 0410

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

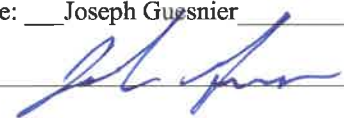
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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Printed Name: Joseph Guesnier Title: Staff Scientist

Signature:  Date: 03/03/2021

email: jrguesnier@terracon.com Telephone: 806-300-0410

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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Contact email: bmoulder@spurepllc.com	Incident # (assigned by OCD)
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Location of Release Source

Latitude 32.609396 Longitude -104.472487
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Huber Federal #010H Water Line Release	Site Type: Pipeline
Date Release Discovered: 6/30/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
L2	3	20 S	25 E	Eddy

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 23	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: A 4" poly pipe line fuse broke on a water transfer line, the line was isolated to shut off flow

State of New Mexico
Oil Conservation Division

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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? No
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

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Printed Name: <u>Joseph Guesnier</u>	Title: <u>Staff Scientist</u>
Signature: <u>[Signature]</u>	Date: <u>7-2-20</u>
email: <u>JRGuesnier@TerraLON.com</u>	Telephone: <u>806-544-9276</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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Site Assessment/Characterization

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Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?

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Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?

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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

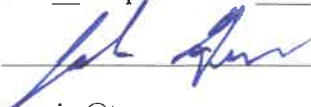
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, 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.

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Printed Name: Joseph Guesnier Title: Staff Scientist

Signature:  Date: 3/3/2021

email: jrguesnier@terracon.com Telephone: 806-300-0140

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
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Application ID	

Remediation Plan

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

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

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

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
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Printed Name: Joseph J. Presing Title: Staff Scientist
Signature: [Signature] Date: 3-3-2021
email: JRPresing@OCD.nm.gov Telephone: 806-300 0410

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

Oil Conservation Division

Incident ID	
District RP	
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Closure

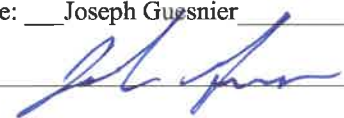
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Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ 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)
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- ☒ Description of remediation activities

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Printed Name: Joseph Guesnier Title: Staff Scientist

Signature:  Date: 03/03/2021

email: jrguesnier@terracon.com Telephone: 806-300-0410

OCD Only

Received by: Chad Hensley Date: 04/29/2021

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

Closure Approved by:  Date: 04/29/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

Closure Report

General Site Information:

Huber Federal #010H Water Line Release
NMOCD Reference No. nRM2019533126

Site Contact:

Braidy Moulder, Spur Energy Partners
920 Memorial City Way, Suite 1000, Houston, Texas 77024
(713) 264-2517

Depth to Ground Water

Greater than 100 feet below grade surface

Distance to Nearest Surface Water

Brantley Lake (North-Central Eddy County), approximately 4.86 miles to the east

Driving Directions

From Hwy 285, West on Rock Daisy Road 3.07 mi, South on Lease Road 1.02 mi.,
West 0.54 mi on right of way, then South 40 feet. to location.

Legal Description

Unit B, Section 3, T20S, R25E, Eddy County, New Mexico

January 15, 2021

Terracon Project No. AR207114

Prepared for:

Spur Energy Partners
Houston, Texas

Prepared by:

Terracon Consultants, Inc.
Lubbock, Texas
TBPG Firm No. 50058

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

January 21, 2021



Spur Energy Partners LLC
920 Memorial City Way, Suite 1000
Houston, Texas 77024

Attn: Mr. Braidy Moulder
P: 713-264-2517
E: bmoulder@spurepllc.com

RE: **Closure Report**
Huber Federal #010H Water Line Release
Lot 2, Section 3, T20S, R25E, Eddy County, New Mexico
Terracon Project No. AR207114

Dear Mr. Moulder,

Terracon Consultants, Inc. (Terracon) is pleased to submit our Closure Report for the site referenced above. The Closure Report was developed in accordance with the New Mexico Oil Conservation Division (NMOCD) regulations concerning clean-up actions required for releases of crude oil and produced water. The Closure Report presents a description of the release incident and OCD notification, site characteristics, potential receptors, and remedial actions required for the site. Terracon developed the Closure Report in general accordance with our Master Service Agreement dated April 29, 2019.

Terracon appreciates this opportunity to provide environmental services to Spur Energy Partners LLC (Spur). Should you have any questions or require additional information, please do not hesitate to contact our office.

Sincerely,
Terracon Consultants, Inc.

A blue ink signature of Joseph Guesnier, consisting of a stylized 'J' and 'G'.

Joseph Guesnier
Staff Scientist
Lubbock

A blue ink signature of Erin Loyd, featuring a large 'E' and 'L'.

Erin Loyd, P.G.
Principal
Office Manager – Lubbock



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APPENDIX A – FIGURES

- Figure 1 – Topographic Map
- Figure 2 – Site Diagram
- Figure 3 – Contamination Concentration Map
- Figure 4 – Remediation Concentration Map
- Figure 5 – NMOSE POD Location Map
- Figure 6 – Cave Karst Public UCP

APPENDIX B – TABLES & PROCEDURES

- Exhibit 1 – Soil Sampling Procedures
- Table 1 – Closure Criteria for Soils Impacted by a Release
- Table 2 – Soil Sample Analytical Results

APPENDIX C – PHOTOGRAPHIC LOG

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY

APPENDIX E – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE

Closure Report
Huber Federal #010H Water Line Release
Unit L2 Section 3, Township 20 South, Range 25 East
Eddy County, New Mexico
NMOCD Reference No. nRM2019533126
Terracon Project No. AR207114
January 15, 2021

1.0 SITE DESCRIPTION

The site is an approximate 0.2-acre tract of land within the Unit L2 Section 3, Township 20 South, Range 25 East, Eddy County, New Mexico (hereinafter, the site). The site consists primarily of undeveloped land except for a Oil Well to the West. A Topographic Map illustrating the site location is included as Figure 1 and a Site Plan is included as Figure 2 in Appendix A.

2.0 SCOPE OF SERVICES

Terracon's scope of services is to investigate the magnitude and extent of the documented release, remediation and restoration and develop a Closure Report in accordance with the NMOCD requirements that detail site closure activities to be completed. This Closure Report addresses the June 30, 2020 release of approximately 23 barrels (bbls) of produced water originating from a 4" poly pipe fuse, which broke on a water transfer line owned by Spur.

3.0 INTRODUCTION AND NOTIFICATION

A release of produced water occurred on June 30, 2020 at the Huber Federal #010H Water Transfer Line site in Eddy County, New Mexico:

Required Information	Site and Release information	
Responsible party	The facility is operated by Spur Energy Partners LLC	
Local contact	Contact: Mr. Braidy Moulder	P: (281) 795-2286 E: bmoulder@spurepllc.com
NMOCD Notification	Notice of the release was provided to the NMOCD District 2 Artesia Office by Jerry Mathews (Spur) on June 30, 2020.	
Facility description	The facility is Huber Federal #010H Water Transfer Line in Eddy County, New Mexico. It is an approximate 0.2-acre well located within the Unit B Section 3, Township 20 South, Range 25 East, N.M.P.M., approximately 16.3 miles southwest of Artesia, New Mexico. The site is undeveloped.	
Time of incident	June 30, 2020, discovered at 7:00 a.m.	

Responsive ■ Resourceful ■ Reliable

Release Investigation and Remedial Action Plan

Huber Federal #010H Water Transfer Line ■ Eddy County, New Mexico

January 15, 2021 ■ Terracon Project No. AR207114



Required Information	Site and Release information	
Discharge event	Release of produced water originating from a 4" poly pipe fuse which broke on a water transfer line owned by Spur. The release area, near the origin of the release, was limited to an approximately 8,000 sq ft area. The entirety of the release is not located on a well pad. The release is illustrated on Figure 2 of Appendix A	
Type of discharge	The documented fluids release occurred at the surface and appears to be surficial to depth.	
Quantity of spilled material	Total Fluids: 23 bbls	Produced Water: 23 bbls
Site characteristics	Relatively flat with drainage following the native ground surface; very gently sloping to the south.	
Immediate corrective actions	Valves wer isolated to shut off flow, and Terracon Remediation Construction Services (RCS) scraped up and stockpiled affected materials proximate to the release origin.	

4.0 INITIAL RESPONSE ACTIONS

4.1 Source Elimination and Site Security

Initial source elimination was accomplished by the Spur foreman isolating vavles to shut off flow. Terracon's remediation construction services (RCS) secured the site and performed containment and site stabilization activities. RCS consolidated and stockpiled affected soils proximate to the release origin, comprising an area measuring approximately 500-square-feet (sf). From this area, the affected materials stockpile totaled an estimated 10-cubic yards (cy). Following consolidation of these materials, RCS fenced off the stockpile to deter inadvertent contact with the materials.

Release Investigation and Remedial Action Plan

Huber Federal #010H Water Transfer Line ■ Eddy County, New Mexico

January 15, 2021 ■ Terracon Project No. AR207114

**5.0 GENERAL SITE CHARACTERISTICS**

Remediation Determining Information	Site Ranking Characteristics
Groundwater	<u>POD Number:</u> RA 10898 POD 1 <u>Depth to Groundwater:</u> 121 ft. bgs <u>Distance to Well:</u> 1.75 miles to the east <u>Date Drilled:</u> March 08, 2006 <u>Groundwater Quality:</u> The well referenced above, was drilled as an exploratory well and water is not for beneficial use.
Surface Water	Brantley Lake (North-Central Eddy County), approximately 4.86 miles to the east
Soil Characteristics	Soils at the site are mapped as Reagan-Upton associations, 0 to 9 percent slopes. This soil has a surface layer of gravelly loam 0 to 13 inches, cemented layer 13 to 21 inches and very gravelly loam 21 to 60 inches. The formation is categorized as well drained with high runoff.
Karst Characterization	Terracon evaluated data from the NMOCD Public FTP Site, Karst map designations in reference to the site location. The site appears to be within a high level Karst risk area. Based on site observations within the extent of the release margins, the potential for Karst formations in this specific area are of low potential. The site has a layer of solid competent rock from 60 to 72 inches bgs.
Depth of Remediation	The full extent of release quantities and excavation activities were not greater than 36 inches bgs.

6.0 SOIL REMEDIAL ACTION LEVELS

Crude oil facilities in New Mexico are generally regulated by the NMOCD. Terracon proposes to remediate produced water impacted soil of the Huber Federal #010H Water Transfer Line Release consistent with the remediation/abatement goals and objectives set forth in the New Mexico Oil Conservation Division (NMOCD) *Closure Criteria for Soils Impacted by a Release*, June 21, 2018.

The guidance document provides direction for initial response actions, site assessment, sampling procedures and provides closure criteria based on the depth to groundwater, distance to private and domestic water sources, and the distance to the nearest surface water body as follows:

Release Investigation and Remedial Action Plan

Huber Federal #010H Water Transfer Line ■ Eddy County, New Mexico

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**6.1 Remediation Levels**

Remediation limits for Chlorides, TPH (GRO+DRO+MRO), GRO+DRO, BTEX (includes benzene, toluene, ethylbenzene and xylenes), and Benzene are selected based on *Restoration, Reclamation, and Re-vegetation* (19.15.29.13) NMAC – D (Reclamation of areas no longer in use) being >100 feet:

Constituent	Remediation Limits
Chloride	600 mg/kg
TPH (GRO+DRO+MRO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

7.0 SOIL SAMPLING PROCEDURES

Soil sampling procedures are detailed as Exhibit 1 in Appendix B

8.0 RELEASE INVESTIGATION DATA EVALUATION

During Terracon's July 1, 2020 and July 13, 2020 release investigation activities, a total of 17 soil samples were collected from the site and analyzed for BTEX, chloride, and/or TPH. 14 of the 17 soil samples were collected from within the release margins.

8.1 Release Margins Data Evaluation

Benzene was detected above applicable laboratory SDLs in two of the 14 soil samples analyzed within the release margins. The Benzene concentrations ranged from 0.000598 mg/kg in HA-1 (0.5 ft bgs to 1.0 ft bgs) to 0.00150 mg/kg in HA-1 (surface to 0.5 ft bgs.). The detected benzene concentrations did not exceed the applicable NMOC RAL for benzene of 10 mg/kg, as summarized in Table 2.

Total BTEX was detected above applicable laboratory SDLs in three of the 14 soil samples analyzed within the release margins. The Total BTEX concentration ranged from 0.00920 mg/kg in HA-1 (surface to 0.5 ft bgs) to 0.000586 mg/kg in HA-1 (1.5 ft bgs to 2 ft bgs). The detected Total BTEX concentrations did not exceed the applicable NMOC RAL for Total BTEX of 50 mg/kg, as summarized in Table 2.

Total TPH was not detected above applicable laboratory SDLs in any of the 14 soil samples analyzed within the release margins. The samples collected within the release margins did not

Release Investigation and Remedial Action Plan

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exhibit Total TPH concentrations above the NMOCD RAL of 100 mg/kg for Total TPH, as summarized in Table 2.

Chloride was detected above applicable laboratory SDLs in each of the 14 soil samples analyzed within the release margins. The chloride concentrations ranged from 5.67 mg/kg in soil sample T-2 (6.5 ft bgs to 7.0 ft bgs) to 10,800 mg/kg in soil sample HA-1 (surface to 0.5 ft bgs). The samples analyzed within the release margins did exhibit chloride concentrations above the applicable NMOCD RAL for chloride of 600 mg/kg, in eight of the 14 soil samples, as summarized in Table 2.

8.2 Release Investigation Data Summary

Based on the review of the above release investigation analytical results, the areas within the release margins exhibited chloride concentrations in multiple locations above NMOCD RALs. Based on these exceedances above NMOCD RALs, Sections 9.0 and subsequent detail recommended remedial response actions to be implemented at the site.

8.3 Confirmation Margins Data Evaluation

During Terracon's confirmation sampling on July 24, 2020, and August 11, 2020 composite soil samples was taken from the side walls and floor of the open excavation, post reclamation activities. Resulting in 41 total soil samples being collected from the site and analyzed for BTEX, chloride, and TPH.

8.3.1 Confirmation Assessment Data Evaluation

Benzene was not detected above the applicable laboratory SDL in the confirmation soil samples within the remediated margins. Benzene concentration did not exceed the applicable NMOCD RAL for benzene of 10 mg/kg, as summarized in Table 2.

Total BTEX was not detected above the applicable laboratory SDL in the confirmation soil samples within the remediated margins. The detected Total BTEX concentrations did not exceed the applicable NMOCD RAL for BTEX of 50 mg/kg, as summarized in Table 2.

Total TPH was not detected above applicable laboratory SDLs in the confirmation soil samples analyzed within the remediated margins. The detected Total TPH concentrations did not exceed the applicable NMOCD RAL of 100 mg/kg for Total TPH, as summarized in Table 2.

Chloride was detected above applicable laboratory SDLs in each of the 41 soil samples analyzed within the remediated margins. The chloride concentrations ranged from 7.68 mg/kg in soil sample C1 -1 (2 ft bgs to 3 ft bgs) to 418 mg/kg in soil sample I2 -(4-5) (4 ft bgs to 5 ft bgs). The samples

Release Investigation and Remedial Action Plan

Huber Federal #010H Water Transfer Line ■ Eddy County, New Mexico

January 15, 2021 ■ Terracon Project No. AR207114



analyzed within the release margins did not exhibit chloride concentrations above the applicable NMOCD RAL for chloride of 600 mg/kg, as summarized in Table 2.

8.3.2 Confirmation Data Summary

Based on the review of the above confirmation analytical results, the areas within and surrounding the remediation do not exhibit concentrations above the NMOCD RAL for benzene, Total BTEX, chloride and Total TPH. Based on these results below NMOCD RALs, Sections 9.0 and subsequent detail recommended closure of response actions to be implemented at the site. Terracon recommends beginning the restoration of the above mentioned site, and disposing of the stockpiled material.

9.0 SOIL REMEDIATION

Impacted soil will be remediated and managed according to the criteria described below which will remove contaminants to protect fresh waters, public health and the environment.

9.1 Contaminated Soils

Soils exceeding the designated NMOCD RALs described in Section 6 will be remediated as follows:

- Highly impacted soils within the release margins, illustrated on Figure 2 of Appendix A, will be excavated either to a maximum depth of 4.5 feet bgs, or upon refusal due to encountering a restrictive barrier, or field evidence demonstrates that impacted materials have been sufficiently mitigated, whichever occurs first.
- Following excavation, vertical and horizontal delineation samples will be collected from the base and walls of the excavation to confirm the remaining levels of soil contaminants are below the desired NMOCD RALs.

9.2 Soil Management

The selected method of soil management is removal and disposal at a NMOCD-approved facility. Excavated soils will be transported by truck (20 cubic yard capacity) and disposed of at the R360 Disposal Facility operated by R360 Environmental Solutions, Inc., located in Halfway, New Mexico.

10.0 TERMINATION OF REMEDIAL ACTIONS, FINAL CLOSURE AND REPORTING

Release Investigation and Remedial Action Plan

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10.1 Termination of Remedial Action

Remedial action of soils at the site will be terminated when the following criteria have been met. Contaminated soils will be removed from the site. Sufficient contaminated soil will be removed so that residual contaminant concentrations are below the soil remediation action levels.

If soil action levels cannot practicably be attained, an evaluation of risk will be performed and provided to NMOCD for approval showing that the remaining contaminants will not pose a threat to present or foreseeable beneficial use of fresh water, public health and the environment.

10.2 Final Closure

Upon termination of remedial actions (Sections 6 and 9), the area of the release will be closed by backfilling the excavated area, contouring to surrounding area topography and reseeded the area with approved-native vegetative seed.

10.3 Final Report

Upon completion of remedial activities, a final report summarizing actions taken to mitigate environmental damage related to the release will be provided to NMOCD for approval.

APPENDIX A – FIGURES

Figure 1 – Topographic Map

Figure 2 – Site Diagram

Figure 3 – Contamination Concentration Map

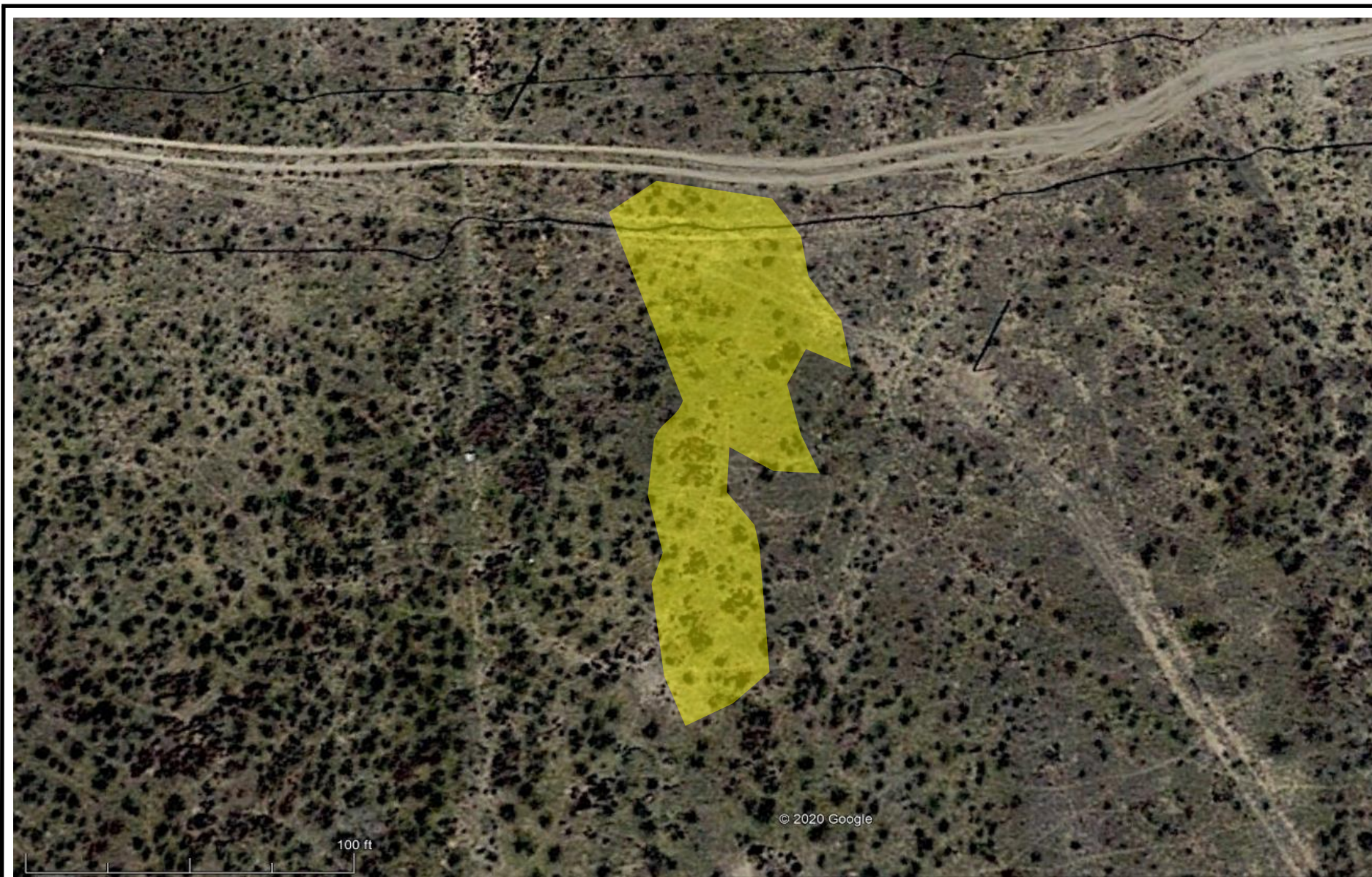
Figure 4 – Remediation Concentration Map

Figure 5 – NMOSE POD Location Map

Figure 6 – Cave Karst Public UCP



Project No. AR207114		Figure 1 – Topographical Map Huber Federal #010H 32.609464°, -104.472431° Eddy County, New Mexico	
Scale:	As Shown		
Source:	Google Earth		
Image Date:	11/02/2017		
Terracon Consulting Engineers & Scientists 5827 50th St. Suite 1 PH. (806) 300-0104 Lubbock, Texas 79424 FAX. (806) 797 0947			



Area of Release



Project No. A4207114

Scale: 1" = 100'

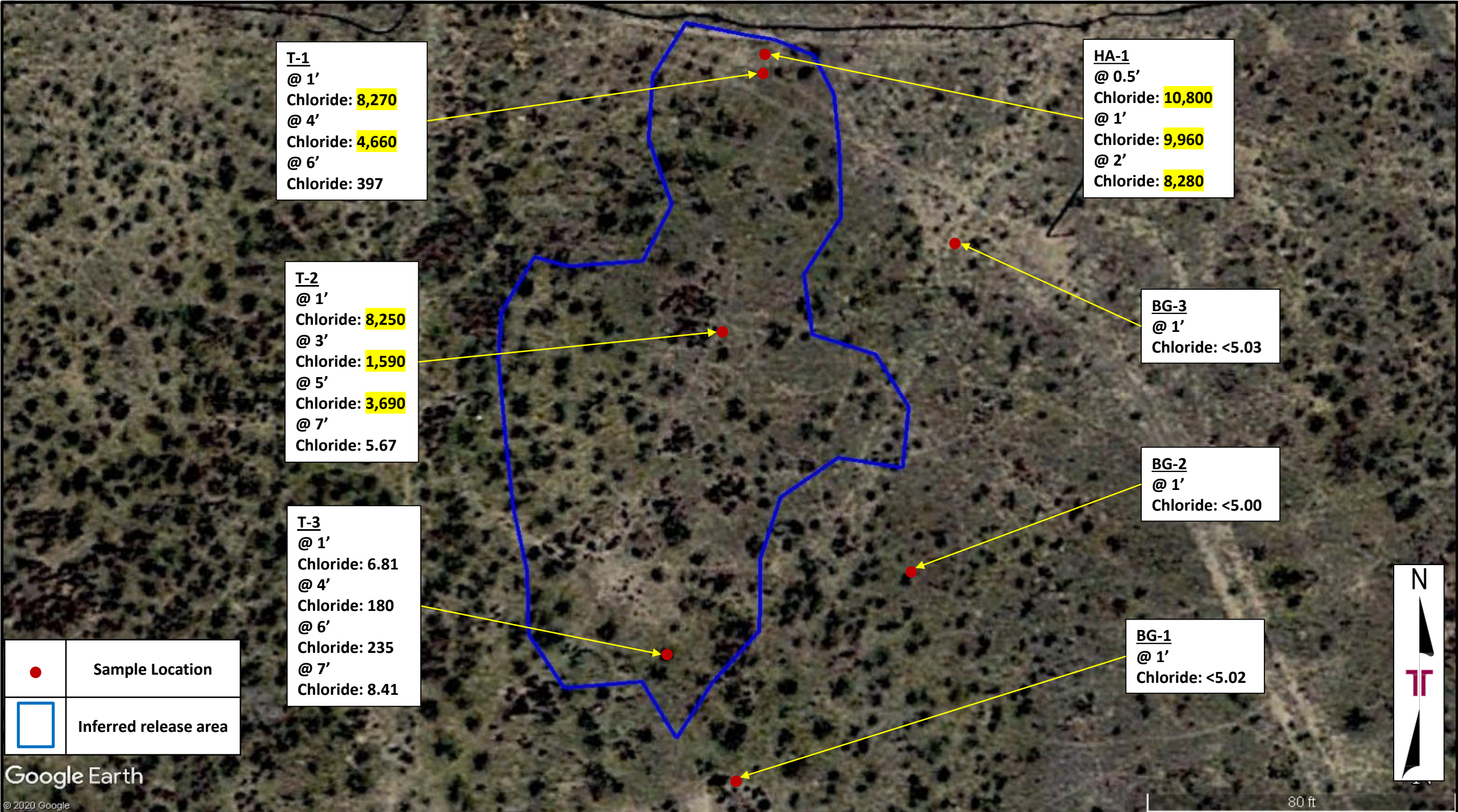
Source: Google Earth

Date: 2020

Terracon
Consulting Engineers & Scientists5847 50th Street Lubbock, Texas 79424
PH: (806) 300 - 0140 FAX: (806) 797 - 0947

Figure 2 - Site Map

Huber Federal 10H Release
32.609473, -104.472457
Eddy County, New Mexico



Project No.	AR207114
Scale:	As Shown
Source:	Google Earth
Image Date:	11/02/2017



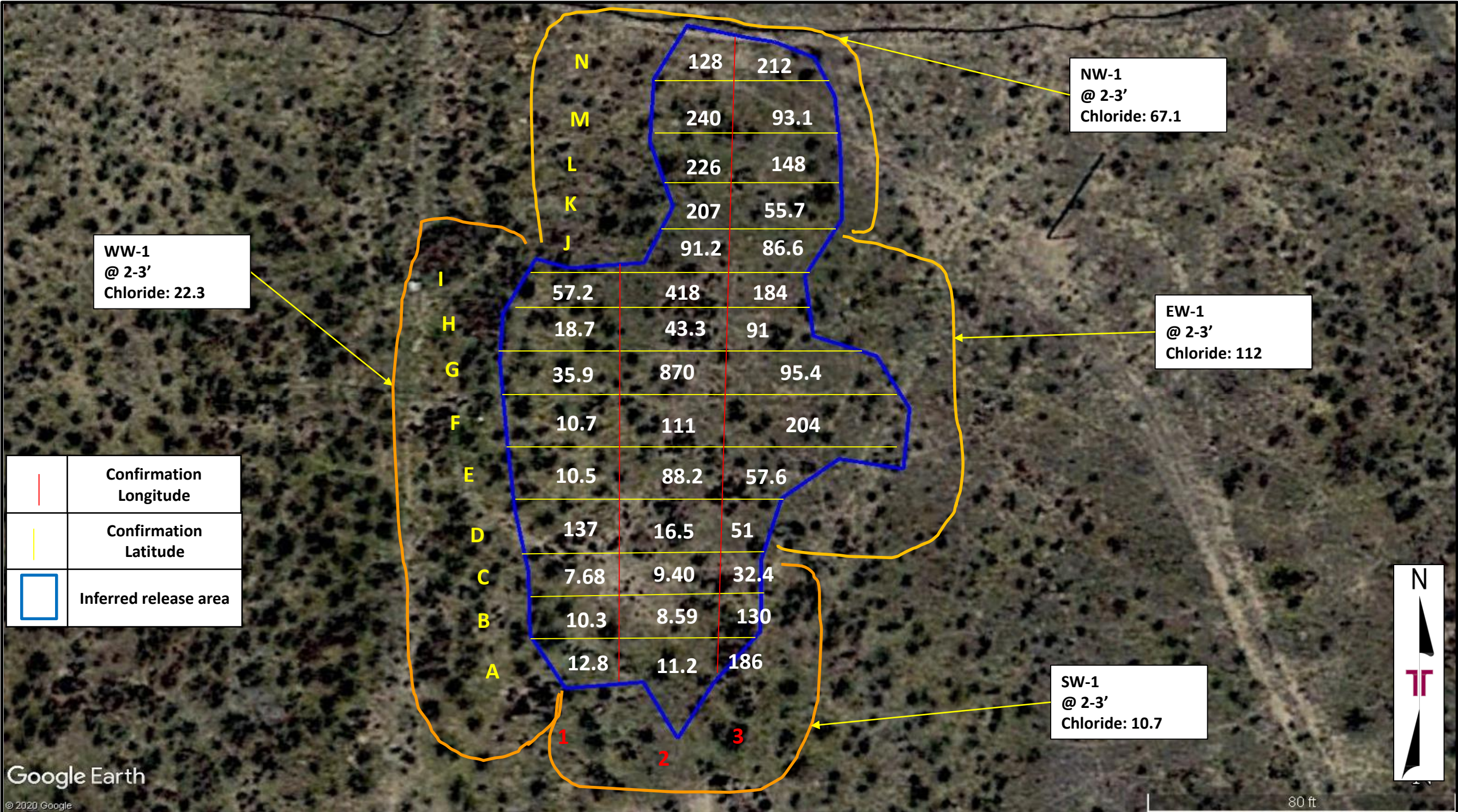
Terracon
Consulting Engineers & Scientists

5827 50th St. Suite 1
PH. (806) 300-0104

Lubbock, Texas 79424
FAX. (806) 797 0947

Figure 3 – Contamination Concentration Map

Huber Federal #010H
32.609464°, -104.472431°
Eddy County, New Mexico



Project No.	AR207114	Figure 4 – Remediation Concentration Map	
Scale:	As Shown	Huber Federal #010H	
Source:	Google Earth	32.609464°, -104.472431°	
Image Date:	11/02/2017	Eddy County, New Mexico	
Terracon Consulting Engineers & Scientists 5827 50th St. Suite 1 PH. (806) 300-0104 Lubbock, Texas 79424 FAX. (806) 797 0947			

Figure 5 - NMOSE POD Location Map



1/7/2021 3:49:14 PM

GIS WATERS PODs

Active

Pending

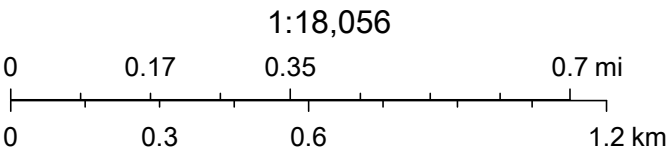
OSE District Boundary

New Mexico State Trust Lands

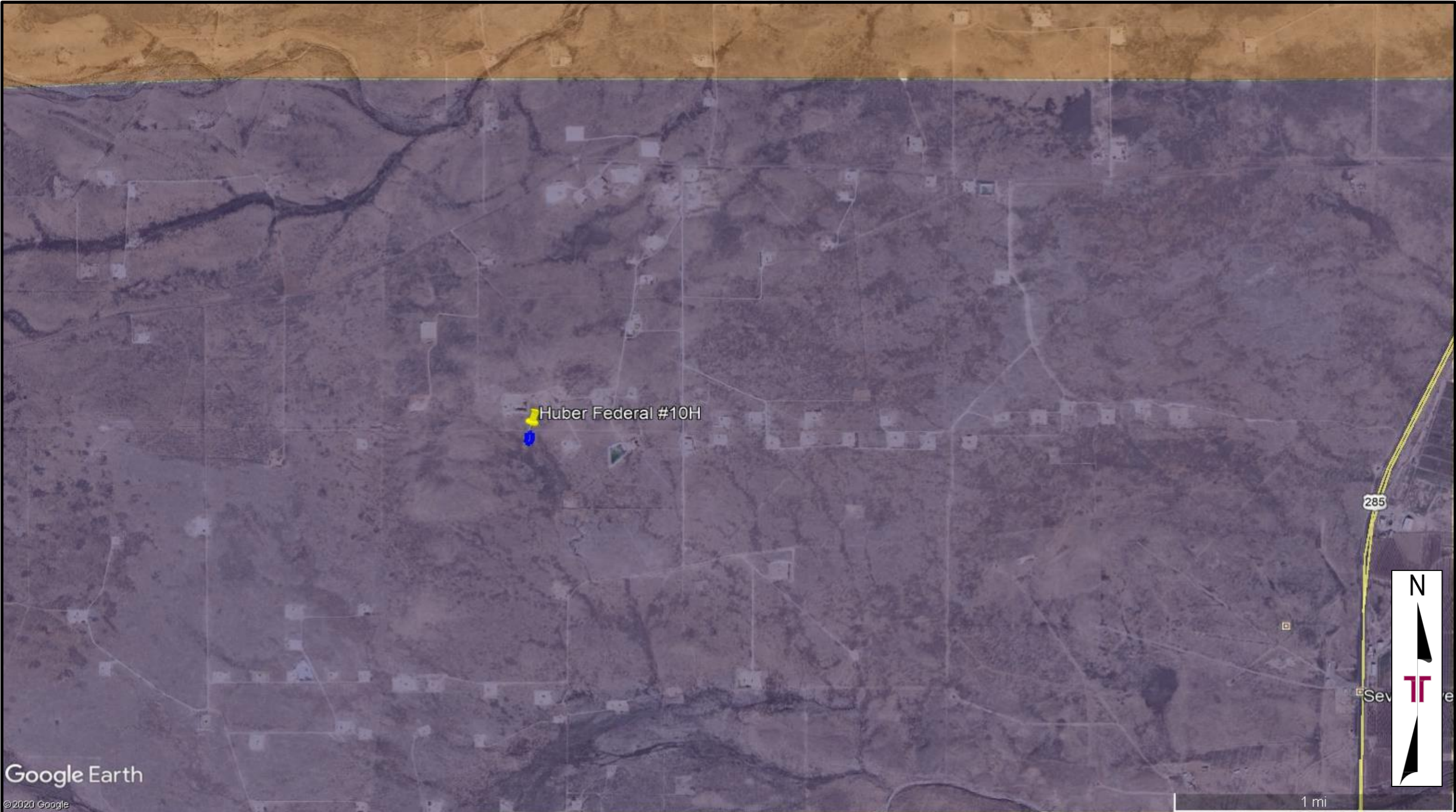
Subsurface Estate

Both Estates

SiteBoundaries



USDA FSA, GeoEye, Maxar, Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC



Project No.	AR207114	 5827 50th St. Suite 1 PH. (806) 300-0104 Lubbock, Texas 79424 FAX. (806) 797 0947	Figure 6 – Cave Karst Public UCP	
Scale:	As Shown		Huber Federal #010H	
Source:	Google Earth		32.609464°, -104.472431°	
Image Date:	11/02/2017		Eddy County, New Mexico	

APPENDIX B – TABLES & PROCEDURES

Exhibit 1 – Soil Sampling Procedures

Table 1 – Closure Criteria for Soils Impacted by a Release

Table 2 – Soil Sample Analytical Results

EXHIBIT 1**SOIL SAMPLING PROCEDURES**Soil Sampling Procedures

Soil sampling for laboratory analysis was conducted according to NMOCD-approved industry standards or other NMOCD-approved procedures. Accepted NMOCD soil sampling procedures and laboratory analytical methods are as follows:

- Collect samples in clean, air-tight glass jars supplied by the laboratory which will conduct the analysis or from a reliable laboratory equipment supplier.
- Label the samples with a unique code for each sample.
- Cool and store samples with cold packs or on ice.
- Promptly ship sample to the lab for analysis following chain of custody procedures.
- All samples must be analyzed within the holding times for the laboratory analytical method specified by EPA.

Analytical Methods

All soil samples must be analyzed using EPA methods, or by other NMOCD-approved methods and must be analyzed within the holding time specified by the method. Below are laboratory analytical methods the selected laboratory will use for analysis of soil samples analyzed for petroleum related constituents.

- Chloride – EPA Method 300.0
- Total Petroleum Hydrocarbons - TPH (GRO+DRO+MRO) – EPA Method 8015M
- Benzene, toluene, ethylbenzene and total xylenes (BTEX) – EPA Method 8021B
- Benzene – EPA Method 8021B

Table 1			
Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/L TDS	Constituent	Method*	Limit**
≤50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015 M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015 M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015 M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

**Numerical limits or natural background level, whichever is greater

***This applies to releases of produced water or other fluids, which may contain chloride

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Huber Federal #010H Water Line Release Terracon Project No. AR207114									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Background Samples (Off Pad)									
BG-1	0.5 - 1	Grab	07/13/20	Benzene - 0.113 Toluene - 0.315 Ethylbenzene - 0.0835 Total Xylenes - 0.0815 Total BTEX - 0.593	12.5	ND	ND	ND	ND
BG-2	0.5 - 1	Grab	07/13/20	Benzene - ND Toluene - 0.0884 Ethylbenzene - 0.0314 Total Xylenes - 0.0255 Total BTEX - 0.145	12.2	ND	ND	ND	ND
BG-3	0.5 - 1	Grab	07/13/20	Benzene - ND Toluene - 0.0309 Ethylbenzene - ND Total Xylenes - 0.0154 Total BTEX - 0.0463	9.37	ND	ND	ND	ND
Initial Release Margin Samples (Off Pad)									
HA-1	0 - 0.5	Grab	07/01/20	Benzene - 0.0015 Toluene - 0.00273 Ethylbenzene - 0.00141 Total Xylenes - 0.00356 Total BTEX - 0.0092	10,800	ND	ND	ND	ND
	0.5 - 1	Grab	07/01/20	Benzene - 0.000598 Toluene - 0.00108 Ethylbenzene - ND Total Xylenes - ND Total BTEX - 0.00168	9,960	ND	ND	ND	ND
	1.5 - 2	Grab	07/01/20	Benzene - ND Toluene - 0.000586 Ethylbenzene - ND Total Xylenes - ND Total BTEX - 0.000586	8,280	ND	ND	ND	ND
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A			100
NMOCD Remediation and Delineation Standards ⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	20,000	1,000		N/A	2,500

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Huber Federal #010H Water Line Release Terracon Project No. AR207114									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Second Release Margin Samples (Off Pad)									
T - 1	0.5 - 1	Grab	07/13/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	8,270	ND	ND	ND	ND
	3.5 - 4	Grab	07/13/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	4,660	ND	ND	ND	ND
	5.5 - 6	Grab	07/13/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	397	ND	ND	ND	ND
T - 2	0.5 - 1	Grab	07/13/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	8,250	ND	ND	ND	ND
	2.5 - 3	Grab	07/13/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	1,590	ND	ND	ND	ND
	4.5 - 5	Grab	07/13/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	3,690	ND	ND	ND	ND
	6.5 - 7	Grab	07/13/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	5.67	ND	ND	ND	ND
T - 3	0.5 - 1	Grab	07/13/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	6.81	ND	ND	ND	ND
	3.5 - 4	Grab	07/13/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	180	ND	ND	ND	ND
	5.5 - 6	Composite	07/13/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	235	ND	ND	ND	ND
	6.5 - 7	Composite	07/13/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	8.41	ND	ND	ND	ND
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A			100
NMOCD Remediation and Delineation Standards ⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	20,000	1,000		N/A	2,500

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Huber Federal #010H Water Line Release Terracon Project No. AR207114									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Confirmation Samples (Off Pad)									
EW-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	112	ND	ND	ND	ND
NW-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	67.1	ND	ND	ND	ND
WW-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	22.3	ND	ND	ND	ND
SW-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	10.7	ND	ND	ND	ND
A1-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	12.8	ND	ND	ND	ND
A2-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	11.2	ND	ND	ND	ND
A3-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	186	ND	82.5	ND	82.5
B1-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	10.3	ND	ND	ND	ND
B2-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - 0.012 Ethylbenzene - 0.0108 Total Xylenes - 0.0579 Total BTEX - 0.0807	8.59	ND	ND	ND	ND
B3-1	2 - 3	Composite	07/24/20	Benzene - 0.00209 Toluene - 0.023 Ethylbenzene - 0.0178 Total Xylenes - 0.103 Total BTEX - 0.146	130	ND	ND	ND	ND
C1-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - 0.0144 Ethylbenzene - 0.0132 Total Xylenes - 0.079 Total BTEX - 0.107	7.68	ND	ND	ND	ND
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A			100
NMOCD Remediation and Delineation Standards ⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	20,000	1,000		N/A	2,500

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOC D) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOC D) Reclamation and/or Remediation and Delineation Standards.

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Huber Federal #010H Water Line Release Terracon Project No. AR207114									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Confirmation Samples (Off Pad)									
C2-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	9.40	ND	ND	ND	ND
C3-1	2 - 3	Composite	08/11/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	32.4	ND	ND	ND	ND
D1-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	137	ND	ND	ND	ND
D2-1	2 - 3	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	16.5	ND	ND	ND	ND
D3-1	2 - 3	Composite	08/11/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	51.0	ND	ND	ND	ND
E1-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	10.5	ND	ND	ND	ND
E2-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	88.2	ND	82.5	ND	82.5
E3-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	57.6	ND	ND	ND	ND
F1-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - 0.012 Ethylbenzene - 0.0108 Total Xylenes - 0.0579 Total BTEX - 0.0807	10.7	ND	ND	ND	ND
F2-1	4 - 5	Composite	07/24/20	Benzene - 0.00209 Toluene - 0.023 Ethylbenzene - 0.0178 Total Xylenes - 0.103 Total BTEX - 0.146	111	ND	ND	ND	ND
F3-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - 0.0144 Ethylbenzene - 0.0132 Total Xylenes - 0.079 Total BTEX - 0.107	204	ND	ND	ND	ND
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A			100
NMOCD Remediation and Delineation Standards ⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	20,000	1,000		N/A	2,500

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOC D) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOC D) Reclamation and/or Remediation and Delineation Standards.

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Huber Federal #010H Water Line Release Terracon Project No. AR207114									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Confirmation Samples (Off Pad)									
G1-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	35.9	ND	ND	ND	ND
G2-1	4 - 5	Composite	08/11/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	283	ND	ND	ND	ND
G3-1	4 - 5	Composite	08/11/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	95.4	ND	ND	ND	ND
H1-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	18.7	ND	ND	ND	ND
H2-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	43.3	ND	ND	ND	ND
H3-1	4 - 5	Composite	08/11/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	91.0	ND	ND	ND	ND
I1-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	57.2	ND	82.5	ND	82.5
I2-1	4 - 5	Composite	08/11/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	418	ND	ND	ND	ND
I3-1	4 - 5	Composite	08/11/20	Benzene - ND Toluene - 0.012 Ethylbenzene - 0.0108 Total Xylenes - 0.0579 Total BTEX - 0.0807	148	ND	ND	ND	ND
J2-1	4 - 5	Composite	08/11/20	Benzene - 0.00209 Toluene - 0.023 Ethylbenzene - 0.0178 Total Xylenes - 0.103 Total BTEX - 0.146	91.2	ND	ND	ND	ND
J3-1	4 - 5	Composite	08/11/20	Benzene - ND Toluene - 0.0144 Ethylbenzene - 0.0132 Total Xylenes - 0.079 Total BTEX - 0.107	86.6	ND	ND	ND	ND
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A			100
NMOCD Remediation and Delineation Standards ⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	20,000	1,000		N/A	2,500

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOC D) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

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NA = Not Analyzed

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Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOC D) Reclamation and/or Remediation and Delineation Standards.

TABLE 2 SOIL SAMPLE ANALYTICAL RESULTS - BTEX ¹ , Chloride ² , and TPH ³ Huber Federal #010H Water Line Release Terracon Project No. AR207114									
Sample I.D.	Sample Depth (ft. bgs)	Sample Type	Sample Date	BTEX (mg/kg)	Chloride (mg/kg)	TPH (8015M) (mg/kg)			
						GRO	DRO	MRO	TOTAL
Confirmation Samples (Off Pad)									
K2-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	207	ND	ND	ND	ND
K3-1	4 - 5	Composite	08/11/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	55.7	ND	ND	ND	ND
L2-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	226	ND	ND	ND	ND
L3-1	4 - 5	Composite	08/11/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	148	ND	82.5	ND	82.5
M2-1	4 - 5	Composite	08/11/20	Benzene - ND Toluene - ND Ethylbenzene - ND Total Xylenes - ND Total BTEX - ND	240	ND	ND	ND	ND
M3-1	4 - 5	Composite	08/11/20	Benzene - ND Toluene - 0.012 Ethylbenzene - 0.0108 Total Xylenes - 0.0579 Total BTEX - 0.0807	93.1	ND	ND	ND	ND
N2-1	4 - 5	Composite	07/24/20	Benzene - 0.00209 Toluene - 0.023 Ethylbenzene - 0.0178 Total Xylenes - 0.103 Total BTEX - 0.146	128	ND	ND	ND	ND
N3-1	4 - 5	Composite	07/24/20	Benzene - ND Toluene - 0.0144 Ethylbenzene - 0.0132 Total Xylenes - 0.079 Total BTEX - 0.107	212	ND	ND	ND	ND
NMOCD Reclamation Standards ⁴ (Applicable for Soils from the Surface to 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	600	N/A			100
NMOCD Remediation and Delineation Standards ⁵ (Applicable for Soils at Depths Greater than 4 ft. Below Grade Surface)				Benzene - 10 Toluene - N/A Ethylbenzene - N/A Total Xylenes - N/A Total BTEX - 50	20,000	1,000		N/A	2,500

1. BTEX = Benzene, toluene, ethylbenzene, total xylenes analyzed by EPA Method 8021B

2. Chloride = Chloride analyzed by EPA Method 300.

3. TPH = Total petroleum hydrocarbons analyzed by EPA Method 8015M (GRO/DRO/MRO)

4. New Mexico Administration Code (NMAC) Restoration, Reclamation, and Re-vegetation (19.15.29.13) New Mexico Administration Code (NMAC) – D (Reclamation of areas no longer in use) for soils extending to 4 ft. bgs

5. New Mexico Oil Conservation Division (NMOCD) Remediation and Delineation Standards are proposed in 19.15.29.12 NMAC - N, 8/14/2018

< = Constituent not detected above the indicated laboratory SDL

NA = Not Analyzed

N/A = Not Applicable

Bold and Highlight denotes concentrations that exceed the New Mexico Oil Conservation Division (NMOCD) Reclamation and/or Remediation and Delineation Standards.

APPENDIX C – PHOTOGRAPHIC LOG

Huber Fed #010H Water Line Release ■ Eddy County, New Mexico
March 3, 2021 ■ Terracon Project No. AR207114

Terracon



PHOTO 1: View of sight, facing southeast. 7/13/2020



PHOTO 2: View of sight, facing southwest. 7/13/2020

Responsive ■ Resourceful ■ Reliable

Huber Fed #010H Water Line Release ■ Eddy County, New Mexico
March 3, 2021 ■ Terracon Project No. AR207114

Terracon



PHOTO 3: View of sight, facing west. 7/13/2020



PHOTO 4: View of sight, facing northwest. 7/13/2020

Responsive ■ Resourceful ■ Reliable

Huber Fed #010H Water Line Release ■ Eddy County, New Mexico
March 3, 2021 ■ Terracon Project No. AR207114

Terracon



PHOTO 5: View of early remediation, facing north. 7/17/2020



PHOTO 6: View of early remediation and site security, facing east. 7/17/2020

Responsive ■ Resourceful ■ Reliable

Huber Fed #010H Water Line Release ■ Eddy County, New Mexico
March 3, 2021 ■ Terracon Project No. AR207114

Terracon



PHOTO 7: View of initial excavation south side, facing east. 7/17/2020



PHOTO 8: View of initial excavation, facing south. 7/17/2020

Responsive ■ Resourceful ■ Reliable

Huber Fed #010H Water Line Release ■ Eddy County, New Mexico
March 3, 2021 ■ Terracon Project No. AR207114

Terracon



PHOTO 9: View of initial excavation south side, facing north. 7/17/2020



PHOTO 10: View of final excavation, facing south. 7/27/2020

Responsive ■ Resourceful ■ Reliable

Huber Fed #010H Water Line Release ■ Eddy County, New Mexico
March 3, 2021 ■ Terracon Project No. AR207114

Terracon



PHOTO 11: View of final excavation center, facing north. 7/27/2020



PHOTO 12: View of final excavation south end, facing southwest. 7/22/2020

Responsive ■ Resourceful ■ Reliable

APPENDIX D – ANALYTICAL REPORT AND CHAIN OF CUSTODY



Xenco

Certificate of Analysis Summary 666323

Terracon-Lubbock, Lubbock, TX

Project Name: Huber Federal 10H Water Line

Project Id: AR207114
Contact: Joseph Guesnier
Project Location:

Date Received in Lab: Thu 07.02.2020 16:53
Report Date: 07.09.2020 15:28
Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	666323-001	666323-002	666323-003			
	Field Id:	HA-1	HA-1	HA-1			
	Depth:	0.5-0 ft	1-0.5 ft	2-1.5 ft			
	Matrix:	SOIL	SOIL	SOIL			
	Sampled:	07.01.2020 12:45	07.01.2020 12:47	07.01.2020 12:50			
BTEX by EPA 8021B SUB: T104704400-19-19	Extracted:	07.07.2020 10:30	07.07.2020 10:30	07.07.2020 10:30			
	Analyzed:	07.07.2020 15:37	07.07.2020 15:58	07.07.2020 16:18			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Benzene		0.00150 J 0.00200	0.000598 J 0.00199	<0.000383 0.00199			
Toluene		0.00273 0.00200	0.00108 J 0.00199	0.000586 J 0.00199			
Ethylbenzene		0.00141 J 0.00200	<0.000563 0.00199	<0.000561 0.00199			
m,p-Xylenes		0.00233 J 0.00400	<0.00101 0.00398	<0.00101 0.00398			
o-Xylene		0.00123 J 0.00200	<0.000343 0.00199	<0.000342 0.00199			
Xylenes, Total		0.00356 0.00200	<0.000343 0.00199	<0.000342 0.00199			
Total BTEX		0.00920 0.00200	0.00168 J 0.00199	0.000586 J 0.00199			
Chloride by EPA 300 SUB: T104704400-19-19	Extracted:	07.08.2020 08:30	07.08.2020 08:30	07.08.2020 08:30			
	Analyzed:	07.08.2020 10:16	07.08.2020 10:21	07.08.2020 10:36			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		10800 101	9960 101	8280 99.6			
TPH by SW8015 Mod SUB: T104704400-19-19	Extracted:	07.07.2020 09:00	07.07.2020 09:00	07.07.2020 09:00			
	Analyzed:	07.07.2020 13:30	07.07.2020 13:49	07.07.2020 14:08			
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<15.0 50.0	<15.0 50.0	<15.0 50.0			
Diesel Range Organics (DRO)		<15.0 50.0	<15.0 50.0	<15.0 50.0			
Motor Oil Range Hydrocarbons (MRO)		<15.0 50.0	<15.0 50.0	<15.0 50.0			
Total TPH		<15.0 50.0	<15.0 50.0	<15.0 50.0			

BRL - Below Reporting Limit

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



Xenco

Analytical Report 666323

for

Terracon-Lubbock

Project Manager: Joseph Guesnier

Huber Federal 10H Water Line

AR207114

07.09.2020

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):

Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):

Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)

Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)

Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)

Xenco-Carlsbad (LELAP): Louisiana (05092)

Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Tampa: Florida (E87429), North Carolina (483)



07.09.2020

Project Manager: **Joseph Guesnier**

Terracon-Lubbock

5827 50th st, Suite 1

Lubbock, TX 79424

Reference: Eurofins Xenco, LLC Report No(s): **666323**

Huber Federal 10H Water Line

Project Address:

Joseph Guesnier:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 666323. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 666323 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 666323****Terracon-Lubbock, Lubbock, TX**

Huber Federal 10H Water Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
HA-1	S	07.01.2020 12:45	0.5 - 0 ft	666323-001
HA-1	S	07.01.2020 12:47	1 - 0.5 ft	666323-002
HA-1	S	07.01.2020 12:50	2 - 1.5 ft	666323-003



Xenco

CASE NARRATIVE**Client Name: Terracon-Lubbock****Project Name: Huber Federal 10H Water Line**Project ID: AR207114
Work Order Number(s): 666323Report Date: 07.09.2020
Date Received: 07.02.2020

This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes, and matrices reported in this data package except as noted. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory.

Sample receipt non conformances and comments:None

Sample receipt non conformances and comments per sample:

None



Certificate of Analytical Results 666323

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **HA-1**
Lab Sample Id: 666323-001

Matrix: Soil
Date Collected: 07.01.2020 12:45

Date Received: 07.02.2020 16:53
Sample Depth: 0.5 - 0 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3131109

Date Prep: 07.08.2020 08:30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10800	101	17.3	mg/kg	07.08.2020 10:16		20

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3130909

Date Prep: 07.07.2020 09:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	07.07.2020 13:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	07.07.2020 13:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	07.07.2020 13:30	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	07.07.2020 13:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	111	%	70-130	07.07.2020 13:30	
o-Terphenyl	84-15-1	119	%	70-130	07.07.2020 13:30	



Certificate of Analytical Results 666323

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **HA-1**
Lab Sample Id: 666323-001

Matrix: Soil
Date Collected: 07.01.2020 12:45

Date Received: 07.02.2020 16:53
Sample Depth: 0.5 - 0 ft

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3130982

Prep Method: SW5035A

% Moisture:

Date Prep: 07.07.2020 10:30

Basis: Wet Weight

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.00150	0.00200	0.000385	mg/kg	07.07.2020 15:37	J	1
Toluene	108-88-3	0.00273	0.00200	0.000456	mg/kg	07.07.2020 15:37		1
Ethylbenzene	100-41-4	0.00141	0.00200	0.000565	mg/kg	07.07.2020 15:37	J	1
m,p-Xylenes	179601-23-1	0.00233	0.00400	0.00101	mg/kg	07.07.2020 15:37	J	1
o-Xylene	95-47-6	0.00123	0.00200	0.000344	mg/kg	07.07.2020 15:37	J	1
Xylenes, Total	1330-20-7	0.00356	0.00200	0.000344	mg/kg	07.07.2020 15:37		1
Total BTEX		0.00920	0.00200	0.000344	mg/kg	07.07.2020 15:37		1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.07.2020 15:37			
4-Bromofluorobenzene	460-00-4	101	%	70-130	07.07.2020 15:37			



Certificate of Analytical Results 666323

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **HA-1**
Lab Sample Id: 666323-002

Matrix: Soil
Date Collected: 07.01.2020 12:47

Date Received: 07.02.2020 16:53
Sample Depth: 1 - 0.5 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3131109

Date Prep: 07.08.2020 08:30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9960	101	17.3	mg/kg	07.08.2020 10:21		20

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3130909

Date Prep: 07.07.2020 09:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	07.07.2020 13:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	07.07.2020 13:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	07.07.2020 13:49	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	07.07.2020 13:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	07.07.2020 13:49	
o-Terphenyl	84-15-1	123	%	70-130	07.07.2020 13:49	



Certificate of Analytical Results 666323

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **HA-1**
Lab Sample Id: 666323-002

Matrix: Soil
Date Collected: 07.01.2020 12:47

Date Received: 07.02.2020 16:53
Sample Depth: 1 - 0.5 ft

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.07.2020 10:30

Basis: Wet Weight

Seq Number: 3130982

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	0.000598	0.00199	0.000383	mg/kg	07.07.2020 15:58	J	1
Toluene	108-88-3	0.00108	0.00199	0.000454	mg/kg	07.07.2020 15:58	J	1
Ethylbenzene	100-41-4	<0.000563	0.00199	0.000563	mg/kg	07.07.2020 15:58	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00398	0.00101	mg/kg	07.07.2020 15:58	U	1
o-Xylene	95-47-6	<0.000343	0.00199	0.000343	mg/kg	07.07.2020 15:58	U	1
Xylenes, Total	1330-20-7	<0.000343	0.00199	0.000343	mg/kg	07.07.2020 15:58	U	1
Total BTEX		0.00168	0.00199	0.000343	mg/kg	07.07.2020 15:58	J	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	103	%	70-130	07.07.2020 15:58			
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.07.2020 15:58			



Certificate of Analytical Results 666323

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **HA-1**
Lab Sample Id: 666323-003

Matrix: Soil
Date Collected: 07.01.2020 12:50

Date Received: 07.02.2020 16:53
Sample Depth: 2 - 1.5 ft

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3131109

Date Prep: 07.08.2020 08:30

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8280	99.6	17.1	mg/kg	07.08.2020 10:36		20

Analytical Method: TPH by SW8015 Mod

Tech: ARM

Analyst: ARM

Seq Number: 3130909

Date Prep: 07.07.2020 09:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<15.0	50.0	15.0	mg/kg	07.07.2020 14:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<15.0	50.0	15.0	mg/kg	07.07.2020 14:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<15.0	50.0	15.0	mg/kg	07.07.2020 14:08	U	1
Total TPH	PHC635	<15.0	50.0	15.0	mg/kg	07.07.2020 14:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	117	%	70-130	07.07.2020 14:08	
o-Terphenyl	84-15-1	125	%	70-130	07.07.2020 14:08	



Certificate of Analytical Results 666323

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **HA-1**
Lab Sample Id: 666323-003

Matrix: Soil
Date Collected: 07.01.2020 12:50

Date Received: 07.02.2020 16:53
Sample Depth: 2 - 1.5 ft

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3130982

Prep Method: SW5035A

% Moisture:

Date Prep: 07.07.2020 10:30

Basis: Wet Weight

SUB: T104704400-19-19

Parameter	Cas Number	Result	RL	MDL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.000383	0.00199	0.000383	mg/kg	07.07.2020 16:18	U	1
Toluene	108-88-3	0.000586	0.00199	0.000453	mg/kg	07.07.2020 16:18	J	1
Ethylbenzene	100-41-4	<0.000561	0.00199	0.000561	mg/kg	07.07.2020 16:18	U	1
m,p-Xylenes	179601-23-1	<0.00101	0.00398	0.00101	mg/kg	07.07.2020 16:18	U	1
o-Xylene	95-47-6	<0.000342	0.00199	0.000342	mg/kg	07.07.2020 16:18	U	1
Xylenes, Total	1330-20-7	<0.000342	0.00199	0.000342	mg/kg	07.07.2020 16:18	U	1
Total BTEX		0.000586	0.00199	0.000342	mg/kg	07.07.2020 16:18	J	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag		
4-Bromofluorobenzene	460-00-4	104	%	70-130	07.07.2020 16:18			
1,4-Difluorobenzene	540-36-3	101	%	70-130	07.07.2020 16:18			

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. **ND** Not Detected.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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

Terracon-Lubbock

Huber Federal 10H Water Line

Analytical Method: Chloride by EPA 300

Seq Number: 3131109

MB Sample Id: 7706932-1-BLK

Matrix: Solid

LCS Sample Id: 7706932-1-BKS

Prep Method: E300P

Date Prep: 07.08.2020

LCSD Sample Id: 7706932-1-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	262	105	267	107	90-110	2	20	mg/kg	07.08.2020 08:40	

Analytical Method: Chloride by EPA 300

Seq Number: 3131109

Parent Sample Id: 666324-001

Matrix: Soil

MS Sample Id: 666324-001 S

Prep Method: E300P

Date Prep: 07.08.2020

MSD Sample Id: 666324-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	371	249	622	101	618	99	90-110	1	20	mg/kg	07.08.2020 10:06	

Analytical Method: Chloride by EPA 300

Seq Number: 3131109

Parent Sample Id: 666427-003

Matrix: Soil

MS Sample Id: 666427-003 S

Prep Method: E300P

Date Prep: 07.08.2020

MSD Sample Id: 666427-003 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	167	250	426	104	422	102	90-110	1	20	mg/kg	07.08.2020 08:55	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3130909

MB Sample Id: 7706835-1-BLK

Matrix: Solid

LCS Sample Id: 7706835-1-BKS

Prep Method: SW8015P

Date Prep: 07.07.2020

LCSD Sample Id: 7706835-1-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	1070	107	1080	108	70-130	1	20	mg/kg	07.07.2020 08:40	
Diesel Range Organics (DRO)	<15.0	1000	1030	103	1030	103	70-130	0	20	mg/kg	07.07.2020 08:40	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		120		117		70-130	%	07.07.2020 08:40
o-Terphenyl	115		113		110		70-130	%	07.07.2020 08:40

Analytical Method: TPH by SW8015 Mod

Seq Number: 3130909

Matrix: Solid

MB Sample Id: 7706835-1-BLK

Prep Method: SW8015P

Date Prep: 07.07.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<15.0	mg/kg	07.07.2020 08:22	

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

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

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

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

Terracon-Lubbock

Huber Federal 10H Water Line

Analytical Method: TPH by SW8015 Mod

Seq Number: 3130909

Parent Sample Id: 666322-001

Matrix: Soil

MS Sample Id: 666322-001 S

Prep Method: SW8015P

Date Prep: 07.07.2020

MSD Sample Id: 666322-001 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	876	88	911	91	70-130	4	20	mg/kg	07.07.2020 09:37	
Diesel Range Organics (DRO)	<15.0	998	825	83	844	85	70-130	2	20	mg/kg	07.07.2020 09:37	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	116		119		70-130	%	07.07.2020 09:37
o-Terphenyl	113		112		70-130	%	07.07.2020 09:37

Analytical Method: BTEX by EPA 8021B

Seq Number: 3130982

MB Sample Id: 7706883-1-BLK

Matrix: Solid

LCS Sample Id: 7706883-1-BKS

Prep Method: SW5035A

Date Prep: 07.07.2020

LCSD Sample Id: 7706883-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000385	0.100	0.104	104	0.0999	100	70-130	4	35	mg/kg	07.07.2020 12:11	
Toluene	<0.000456	0.100	0.0981	98	0.0994	99	70-130	1	35	mg/kg	07.07.2020 12:11	
Ethylbenzene	<0.000565	0.100	0.106	106	0.101	101	70-130	5	35	mg/kg	07.07.2020 12:11	
m,p-Xylenes	<0.00101	0.200	0.213	107	0.205	103	70-130	4	35	mg/kg	07.07.2020 12:11	
o-Xylene	<0.000344	0.100	0.106	106	0.101	101	70-130	5	35	mg/kg	07.07.2020 12:11	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	100		99		97		70-130	%	07.07.2020 12:11
4-Bromofluorobenzene	101		100		98		70-130	%	07.07.2020 12:11

Analytical Method: BTEX by EPA 8021B

Seq Number: 3130982

Parent Sample Id: 666320-001

Matrix: Soil

MS Sample Id: 666320-001 S

Prep Method: SW5035A

Date Prep: 07.07.2020

MSD Sample Id: 666320-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.000384	0.0998	0.0996	100	0.0992	100	70-130	0	35	mg/kg	07.07.2020 12:52	
Toluene	<0.000455	0.0998	0.0952	95	0.0987	99	70-130	4	35	mg/kg	07.07.2020 12:52	
Ethylbenzene	<0.000564	0.0998	0.0852	85	0.0903	91	70-130	6	35	mg/kg	07.07.2020 12:52	
m,p-Xylenes	<0.00101	0.200	0.169	85	0.180	91	70-130	6	35	mg/kg	07.07.2020 12:52	
o-Xylene	0.000426	0.0998	0.0830	83	0.0891	89	70-130	7	35	mg/kg	07.07.2020 12:52	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	98		99		70-130	%	07.07.2020 12:52
4-Bromofluorobenzene	95		99		70-130	%	07.07.2020 12:52

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

Inter-Office Shipment

IOS Number : **66576**

Date/Time: 07.06.2020

Created by: Michael J Turner

Please send report to: Jessica Kramer

Lab# From: **Lubbock**

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: **Midland**

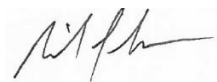
Air Bill No.: 7708 8362 2244

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
666323-001	S	HA-1	07.01.2020 12:45	SW8021B	BTEX by EPA 8021B	07.08.2020	07.15.2020	JKR	BR4FBZ BZ BZME EBZ	
666323-001	S	HA-1	07.01.2020 12:45	SW8015MOD_NM	TPH by SW8015 Mod	07.08.2020	07.15.2020	JKR	PHCC10C28 PHCC28C3	
666323-001	S	HA-1	07.01.2020 12:45	E300_CL	Chloride by EPA 300	07.08.2020	07.29.2020	JKR	CL	
666323-002	S	HA-1	07.01.2020 12:47	SW8015MOD_NM	TPH by SW8015 Mod	07.08.2020	07.15.2020	JKR	PHCC10C28 PHCC28C3	
666323-002	S	HA-1	07.01.2020 12:47	SW8021B	BTEX by EPA 8021B	07.08.2020	07.15.2020	JKR	BR4FBZ BZ BZME EBZ	
666323-002	S	HA-1	07.01.2020 12:47	E300_CL	Chloride by EPA 300	07.08.2020	07.29.2020	JKR	CL	
666323-003	S	HA-1	07.01.2020 12:50	SW8015MOD_NM	TPH by SW8015 Mod	07.08.2020	07.15.2020	JKR	PHCC10C28 PHCC28C3	
666323-003	S	HA-1	07.01.2020 12:50	SW8021B	BTEX by EPA 8021B	07.08.2020	07.15.2020	JKR	BR4FBZ BZ BZME EBZ	
666323-003	S	HA-1	07.01.2020 12:50	E300_CL	Chloride by EPA 300	07.08.2020	07.29.2020	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By:



Michael J Turner

Date Relinquished: 07.06.2020

Received By:



Brianna Teel

Date Received: 07.07.2020

Cooler Temperature: 1.6



Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 66576

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sent By: Michael J Turner

Date Sent: 07.06.2020 11.51 AM

Received By: Brianna Teel

Date Received: 07.07.2020 11.09 AM

Sample Receipt Checklist

Comments

#1 *Temperature of cooler(s)?	1.6
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Brianna Teel

Date: 07.07.2020

Certificate of Analysis Summary 667225



Terracon-Lubbock, Lubbock, TX

Project Name: Huber Federal 10H

Project Id: AR207114
Contact: Joseph Guesnier
Project Location:

Date Received in Lab: Wed 07.15.2020 09:00
Report Date: 07.27.2020 12:10
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	667225-001	667225-002	667225-003	667225-004	667225-007	667225-009
	<i>Field Id:</i>	BG-1 (0.5-1)	BG-2 (0.5-1)	BG-3 (0.5-1)	T-1 (0.5-1)	T-1 (3.5-4)	T-1 (5.5-6)
	<i>Depth:</i>	1-0.5	1-0.5	1-0.5	1-0.5	4-3.5	6-5.5
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	07.13.2020 12:00	07.13.2020 12:04	07.13.2020 12:06	07.13.2020 12:20	07.13.2020 12:23	07.13.2020 12:25
BTEX by EPA 8021B SUB: T104704400-20-20	<i>Extracted:</i>	07.20.2020 08:00	07.23.2020 15:30	07.23.2020 15:30	07.24.2020 16:00	07.24.2020 16:00	07.24.2020 16:00
	<i>Analyzed:</i>	07.20.2020 18:18	07.23.2020 21:51	07.23.2020 22:11	07.24.2020 19:51	07.24.2020 20:12	07.24.2020 20:32
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00402 0.00402	<0.00403 0.00403	<0.00402 0.00402	<0.00402 0.00402	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
Xylenes, Total		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00201 0.00201	<0.00202 0.00202	<0.00201 0.00201	<0.00201 0.00201	<0.00201 0.00201
Chloride by EPA 300 SUB: T104704400-20-20	<i>Extracted:</i>	07.20.2020 08:50	07.20.2020 08:50	07.20.2020 08:50	07.20.2020 08:50	07.20.2020 08:50	07.20.2020 08:50
	<i>Analyzed:</i>	07.20.2020 14:36	07.20.2020 14:42	07.20.2020 15:00	07.20.2020 15:06	07.20.2020 15:25	07.20.2020 15:31
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		<5.02 5.02	<5.00 5.00	<5.03 5.03	8270 50.4	4660 25.3	397 4.98
TPH by SW8015 Mod SUB: T104704400-20-20	<i>Extracted:</i>	07.16.2020 12:00	07.16.2020 12:00	07.16.2020 12:00	07.16.2020 12:00	07.16.2020 12:00	07.16.2020 12:00
	<i>Analyzed:</i>	07.16.2020 14:48	07.16.2020 15:09	07.16.2020 15:31	07.16.2020 15:53	07.16.2020 16:15	07.16.2020 16:36
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0
Total TPH		<49.9 49.9	<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 667225

Terracon-Lubbock, Lubbock, TX

Project Name: Huber Federal 10H

Project Id: AR207114
 Contact: Joseph Guesnier
 Project Location:

Date Received in Lab: Wed 07.15.2020 09:00
 Report Date: 07.27.2020 12:10
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	667225-011	667225-013	667225-015	667225-017	667225-018	667225-021
	Field Id:	T-2 (0.5-1)	T-2 (2.5-3)	T-2 (4.5-5)	T-2 (6.5-7)	T-3 (0.5-1)	T-3 (3.5-4)
	Depth:	1-0.5	3-2.5	5-4.5	7-6.5	1-0.5	4-3.5
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	07.13.2020 12:32	07.13.2020 12:34	07.13.2020 12:36	07.13.2020 12:38	07.13.2020 13:01	07.13.2020 13:04
BTEX by EPA 8021B SUB: T104704400-20-20	Extracted:	07.24.2020 16:00	07.24.2020 16:00	07.24.2020 16:00	07.24.2020 16:00	07.24.2020 16:00	07.24.2020 16:00
	Analyzed:	07.24.2020 20:53	07.24.2020 21:13	07.24.2020 21:34	07.24.2020 21:54	07.24.2020 23:16	07.24.2020 23:36
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00403 0.00403	<0.00399 0.00399	<0.00397 0.00397	<0.00401 0.00401	<0.00398 0.00398	<0.00400 0.00400
o-Xylene		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Xylenes, Total		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00202 0.00202	<0.00200 0.00200	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Chloride by EPA 300 SUB: T104704400-20-20	Extracted:	07.20.2020 08:50	07.20.2020 08:50	07.20.2020 08:50	07.20.2020 08:50	07.20.2020 08:50	07.20.2020 09:15
	Analyzed:	07.20.2020 15:37	07.20.2020 15:43	07.20.2020 15:49	07.21.2020 08:53	07.20.2020 16:02	07.20.2020 22:13
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		8250 49.5	1590 24.8	3690 24.9	5.67 4.99	6.81 5.03	180 5.03
TPH by SW8015 Mod SUB: T104704400-20-20	Extracted:	07.16.2020 12:00	07.16.2020 12:00	07.16.2020 12:00	07.16.2020 12:00	07.16.2020 12:00	07.16.2020 12:00
	Analyzed:	07.16.2020 17:20	07.16.2020 17:42	07.16.2020 18:04	07.16.2020 18:25	07.16.2020 18:47	07.16.2020 19:08
	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	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0
Total TPH		<49.9 49.9	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.8 49.8	<50.0 50.0

BRL - Below Reporting Limit

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



Certificate of Analysis Summary 667225

Terracon-Lubbock, Lubbock, TX

Project Name: Huber Federal 10H

Project Id: AR207114
 Contact: Joseph Guesnier
 Project Location:

Date Received in Lab: Wed 07.15.2020 09:00
 Report Date: 07.27.2020 12:10
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	667225-023	667225-024				
	Field Id:	T-3 (5.5-6)	T-3 (6.5-7)				
	Depth:	6-5.5	7-6.5				
	Matrix:	SOIL	SOIL				
	Sampled:	07.13.2020 13:06	07.13.2020 13:07				
BTEX by EPA 8021B SUB: T104704400-20-20	Extracted:	07.24.2020 16:00	07.24.2020 16:00				
	Analyzed:	07.24.2020 23:57	07.25.2020 00:17				
	Units/RL:	mg/kg RL	mg/kg RL				
Benzene		<0.00198 0.00198	<0.00200 0.00200				
Toluene		<0.00198 0.00198	<0.00200 0.00200				
Ethylbenzene		<0.00198 0.00198	<0.00200 0.00200				
m,p-Xylenes		<0.00396 0.00396	<0.00401 0.00401				
o-Xylene		<0.00198 0.00198	<0.00200 0.00200				
Xylenes, Total		<0.00198 0.00198	<0.00200 0.00200				
Total BTEX		<0.00198 0.00198	<0.00200 0.00200				
Chloride by EPA 300 SUB: T104704400-20-20	Extracted:	07.20.2020 09:45	07.20.2020 09:45				
	Analyzed:	07.21.2020 05:32	07.21.2020 05:48				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		235 4.99	8.41 5.05				
TPH by SW8015 Mod SUB: T104704400-20-20	Extracted:	07.16.2020 12:00	07.16.2020 12:00				
	Analyzed:	07.16.2020 19:30	07.16.2020 19:51				
	Units/RL:	mg/kg RL	mg/kg RL				
Gasoline Range Hydrocarbons (GRO)		<49.9 49.9	<50.0 50.0				
Diesel Range Organics (DRO)		<49.9 49.9	<50.0 50.0				
Motor Oil Range Hydrocarbons (MRO)		<49.9 49.9	<50.0 50.0				
Total TPH		<49.9 49.9	<50.0 50.0				

BRL - Below Reporting Limit

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



Analytical Report 667225

for

Terracon-Lubbock

Project Manager: Joseph Guesnier

Huber Federal 10H

AR207114

07.27.2020

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNi02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



07.27.2020

Project Manager: **Joseph Guesnier**

Terracon-Lubbock

5827 50th st, Suite 1

Lubbock, TX 79424

Reference: Eurofins Xenco, LLC Report No(s): **667225**

Huber Federal 10H

Project Address:

Joseph Guesnier:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 667225. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 667225 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BG-1 (0.5-1)	S	07.13.2020 12:00	1 - 0.5	667225-001
BG-2 (0.5-1)	S	07.13.2020 12:04	1 - 0.5	667225-002
BG-3 (0.5-1)	S	07.13.2020 12:06	1 - 0.5	667225-003
T-1 (0.5-1)	S	07.13.2020 12:20	1 - 0.5	667225-004
T-1 (3.5-4)	S	07.13.2020 12:23	4 - 3.5	667225-007
T-1 (5.5-6)	S	07.13.2020 12:25	6 - 5.5	667225-009
T-2 (0.5-1)	S	07.13.2020 12:32	1 - 0.5	667225-011
T-2 (2.5-3)	S	07.13.2020 12:34	3 - 2.5	667225-013
T-2 (4.5-5)	S	07.13.2020 12:36	5 - 4.5	667225-015
T-2 (6.5-7)	S	07.13.2020 12:38	7 - 6.5	667225-017
T-3 (0.5-1)	S	07.13.2020 13:01	1 - 0.5	667225-018
T-3 (3.5-4)	S	07.13.2020 13:04	4 - 3.5	667225-021
T-3 (5.5-6)	S	07.13.2020 13:06	6 - 5.5	667225-023
T-3 (6.5-7)	S	07.13.2020 13:07	7 - 6.5	667225-024
T-1 (1.5-2)	S	07.13.2020 12:21	2 - 1.5	Not Analyzed
T-1 (2.5-3)	S	07.13.2020 12:22	3 - 2.5	Not Analyzed
T-1 (4.5-5)	S	07.13.2020 12:24	5 - 4.5	Not Analyzed
T-1 (6.5-7)	S	07.13.2020 12:26	7 - 6.5	Not Analyzed
T-2 (1.5-2)	S	07.13.2020 12:33	2 - 1.5	Not Analyzed
T-2 (3.5-4)	S	07.13.2020 12:35	4 - 3.5	Not Analyzed
T-2 (5.5-6)	S	07.13.2020 12:37	6 - 5.5	Not Analyzed
T-3 (1.5-2)	S	07.13.2020 13:02	2 - 1.5	Not Analyzed
T-3 (2.5-3)	S	07.13.2020 13:03	3 - 2.5	Not Analyzed
T-3 (4.5-5)	S	07.13.2020 13:05	5 - 4.5	Not Analyzed



CASE NARRATIVE

Client Name: Terracon-Lubbock

Project Name: Huber Federal 10H

Project ID: AR207114
Work Order Number(s): 667225

Report Date: 07.27.2020
Date Received: 07.15.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3132132 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Samples affected are: 7707709-1-BKS, 7707709-1-BLK, 7707709-1-BSD, 667218-008 S, 667218-008 SD, 667225-001.

Batch: LBA-3132552 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected. Samples affected are: 667225-003.



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: **BG-1 (0.5-1)**

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-001

Date Collected: 07.13.2020 12:00

Sample Depth: 1 - 0.5

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.20.2020 08:50

Basis: Wet Weight

Seq Number: 3132153

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.02	5.02	mg/kg	07.20.2020 14:36	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.16.2020 12:00

Basis: Wet Weight

Seq Number: 3131955

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.16.2020 14:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.16.2020 14:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.16.2020 14:48	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.16.2020 14:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	07.16.2020 14:48	
o-Terphenyl	84-15-1	98	%	70-130	07.16.2020 14:48	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: **BG-1 (0.5-1)**

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-001

Date Collected: 07.13.2020 12:00

Sample Depth: 1 - 0.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: AMF

% Moisture:

Analyst: AMF

Date Prep: 07.20.2020 08:00

Basis: Wet Weight

Seq Number: 3132132

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.20.2020 18:18	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.20.2020 18:18	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.20.2020 18:18	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.20.2020 18:18	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.20.2020 18:18	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	07.20.2020 18:18	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.20.2020 18:18	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	192	%	70-130	07.20.2020 18:18	**	
1,4-Difluorobenzene	540-36-3	75	%	70-130	07.20.2020 18:18		



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: **BG-2 (0.5-1)**

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-002

Date Collected: 07.13.2020 12:04

Sample Depth: 1 - 0.5

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.20.2020 08:50

Basis: Wet Weight

Seq Number: 3132153

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.00	5.00	mg/kg	07.20.2020 14:42	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.16.2020 12:00

Basis: Wet Weight

Seq Number: 3131955

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.16.2020 15:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.16.2020 15:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.16.2020 15:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.16.2020 15:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	94	%	70-130	07.16.2020 15:09	
o-Terphenyl	84-15-1	96	%	70-130	07.16.2020 15:09	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: **BG-2 (0.5-1)**

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-002

Date Collected: 07.13.2020 12:04

Sample Depth: 1 - 0.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.23.2020 15:30

Basis: Wet Weight

Seq Number: 3132552

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.23.2020 21:51	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.23.2020 21:51	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.23.2020 21:51	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.23.2020 21:51	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.23.2020 21:51	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	07.23.2020 21:51	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.23.2020 21:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	122	%	70-130	07.23.2020 21:51	
1,4-Difluorobenzene	540-36-3	108	%	70-130	07.23.2020 21:51	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: **BG-3 (0.5-1)**

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-003

Date Collected: 07.13.2020 12:06

Sample Depth: 1 - 0.5

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.20.2020 08:50

Basis: Wet Weight

Seq Number: 3132153

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	<5.03	5.03	mg/kg	07.20.2020 15:00	U	1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.16.2020 12:00

Basis: Wet Weight

Seq Number: 3131955

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.16.2020 15:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.16.2020 15:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.16.2020 15:31	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.16.2020 15:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	95	%	70-130	07.16.2020 15:31	
o-Terphenyl	84-15-1	98	%	70-130	07.16.2020 15:31	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: **BG-3 (0.5-1)**

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-003

Date Collected: 07.13.2020 12:06

Sample Depth: 1 - 0.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.23.2020 15:30

Basis: Wet Weight

Seq Number: 3132552

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.23.2020 22:11	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.23.2020 22:11	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.23.2020 22:11	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	07.23.2020 22:11	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.23.2020 22:11	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	07.23.2020 22:11	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.23.2020 22:11	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	108	%	70-130	07.23.2020 22:11		
4-Bromofluorobenzene	460-00-4	131	%	70-130	07.23.2020 22:11	**	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-1 (0.5-1)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-004

Date Collected: 07.13.2020 12:20

Sample Depth: 1 - 0.5

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.20.2020 08:50

Basis: Wet Weight

Seq Number: 3132153

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8270	50.4	mg/kg	07.20.2020 15:06		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.16.2020 12:00

Basis: Wet Weight

Seq Number: 3131955

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.16.2020 15:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.16.2020 15:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.16.2020 15:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.16.2020 15:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	07.16.2020 15:53	
o-Terphenyl	84-15-1	105	%	70-130	07.16.2020 15:53	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: **T-1 (0.5-1)**

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-004

Date Collected: 07.13.2020 12:20

Sample Depth: 1 - 0.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.24.2020 16:00

Basis: Wet Weight

Seq Number: 3132599

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.24.2020 19:51	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.24.2020 19:51	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.24.2020 19:51	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.24.2020 19:51	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.24.2020 19:51	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	07.24.2020 19:51	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.24.2020 19:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.24.2020 19:51	
1,4-Difluorobenzene	540-36-3	113	%	70-130	07.24.2020 19:51	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-1 (3.5-4)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-007

Date Collected: 07.13.2020 12:23

Sample Depth: 4 - 3.5

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.20.2020 08:50

Basis: Wet Weight

Seq Number: 3132153

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	4660	25.3	mg/kg	07.20.2020 15:25		5

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.16.2020 12:00

Basis: Wet Weight

Seq Number: 3131955

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.16.2020 16:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.16.2020 16:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.16.2020 16:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.16.2020 16:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	07.16.2020 16:15	
o-Terphenyl	84-15-1	105	%	70-130	07.16.2020 16:15	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: **T-1 (3.5-4)**

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-007

Date Collected: 07.13.2020 12:23

Sample Depth: 4 - 3.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.24.2020 16:00

Basis: Wet Weight

Seq Number: 3132599

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.24.2020 20:12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.24.2020 20:12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.24.2020 20:12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.24.2020 20:12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.24.2020 20:12	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	07.24.2020 20:12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.24.2020 20:12	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	07.24.2020 20:12	
1,4-Difluorobenzene	540-36-3	108	%	70-130	07.24.2020 20:12	



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Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: **T-1 (5.5-6)** Matrix: Soil Date Received: 07.15.2020 09:00
 Lab Sample Id: 667225-009 Date Collected: 07.13.2020 12:25 Sample Depth: 6 - 5.5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.20.2020 08:50 Basis: Wet Weight
 Seq Number: 3132153 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	397	4.98	mg/kg	07.20.2020 15:31		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.16.2020 12:00 Basis: Wet Weight
 Seq Number: 3131955 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.16.2020 16:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.16.2020 16:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.16.2020 16:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.16.2020 16:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	07.16.2020 16:36	
o-Terphenyl	84-15-1	106	%	70-130	07.16.2020 16:36	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-1 (5.5-6)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-009

Date Collected: 07.13.2020 12:25

Sample Depth: 6 - 5.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.24.2020 16:00

Basis: Wet Weight

Seq Number: 3132599

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.24.2020 20:32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.24.2020 20:32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.24.2020 20:32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.24.2020 20:32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.24.2020 20:32	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	07.24.2020 20:32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.24.2020 20:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	07.24.2020 20:32		
1,4-Difluorobenzene	540-36-3	108	%	70-130	07.24.2020 20:32		



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Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-2 (0.5-1)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-011

Date Collected: 07.13.2020 12:32

Sample Depth: 1 - 0.5

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.20.2020 08:50

Basis: Wet Weight

Seq Number: 3132153

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8250	49.5	mg/kg	07.20.2020 15:37		10

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.16.2020 12:00

Basis: Wet Weight

Seq Number: 3131955

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.16.2020 17:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.16.2020 17:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.16.2020 17:20	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.16.2020 17:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	100	%	70-130	07.16.2020 17:20	
o-Terphenyl	84-15-1	107	%	70-130	07.16.2020 17:20	



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Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-2 (0.5-1)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-011

Date Collected: 07.13.2020 12:32

Sample Depth: 1 - 0.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.24.2020 16:00

Basis: Wet Weight

Seq Number: 3132599

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	07.24.2020 20:53	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	07.24.2020 20:53	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	07.24.2020 20:53	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	07.24.2020 20:53	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	07.24.2020 20:53	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	07.24.2020 20:53	U	1
Total BTEX		<0.00202	0.00202	mg/kg	07.24.2020 20:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	07.24.2020 20:53	
1,4-Difluorobenzene	540-36-3	112	%	70-130	07.24.2020 20:53	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: **T-2 (2.5-3)** Matrix: Soil Date Received: 07.15.2020 09:00
 Lab Sample Id: 667225-013 Date Collected: 07.13.2020 12:34 Sample Depth: 3 - 2.5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.20.2020 08:50 Basis: Wet Weight
 Seq Number: 3132153 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	1590	24.8	mg/kg	07.20.2020 15:43		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.16.2020 12:00 Basis: Wet Weight
 Seq Number: 3131955 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.16.2020 17:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.16.2020 17:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.16.2020 17:42	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.16.2020 17:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	07.16.2020 17:42	
o-Terphenyl	84-15-1	103	%	70-130	07.16.2020 17:42	



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Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-2 (2.5-3)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-013

Date Collected: 07.13.2020 12:34

Sample Depth: 3 - 2.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.24.2020 16:00

Basis: Wet Weight

Seq Number: 3132599

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.24.2020 21:13	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.24.2020 21:13	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.24.2020 21:13	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.24.2020 21:13	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.24.2020 21:13	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	07.24.2020 21:13	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.24.2020 21:13	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	109	%	70-130	07.24.2020 21:13	
1,4-Difluorobenzene	540-36-3	113	%	70-130	07.24.2020 21:13	



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Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: **T-2 (4.5-5)** Matrix: Soil Date Received: 07.15.2020 09:00
 Lab Sample Id: 667225-015 Date Collected: 07.13.2020 12:36 Sample Depth: 5 - 4.5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: CHE % Moisture:
 Analyst: CHE Date Prep: 07.20.2020 08:50 Basis: Wet Weight
 Seq Number: 3132153 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	3690	24.9	mg/kg	07.20.2020 15:49		5

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.16.2020 12:00 Basis: Wet Weight
 Seq Number: 3131955 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.16.2020 18:04	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.16.2020 18:04	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.16.2020 18:04	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.16.2020 18:04	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	07.16.2020 18:04	
o-Terphenyl	84-15-1	105	%	70-130	07.16.2020 18:04	



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Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-2 (4.5-5)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-015

Date Collected: 07.13.2020 12:36

Sample Depth: 5 - 4.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.24.2020 16:00

Basis: Wet Weight

Seq Number: 3132599

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.24.2020 21:34	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.24.2020 21:34	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.24.2020 21:34	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	07.24.2020 21:34	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.24.2020 21:34	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	07.24.2020 21:34	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.24.2020 21:34	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	07.24.2020 21:34	
4-Bromofluorobenzene	460-00-4	106	%	70-130	07.24.2020 21:34	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-2 (6.5-7)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-017

Date Collected: 07.13.2020 12:38

Sample Depth: 7 - 6.5

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.20.2020 08:50

Basis: Wet Weight

Seq Number: 3132153

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	5.67	4.99	mg/kg	07.21.2020 08:53		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.16.2020 12:00

Basis: Wet Weight

Seq Number: 3131955

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.16.2020 18:25	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.16.2020 18:25	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.16.2020 18:25	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.16.2020 18:25	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	96	%	70-130	07.16.2020 18:25	
o-Terphenyl	84-15-1	97	%	70-130	07.16.2020 18:25	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-2 (6.5-7)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-017

Date Collected: 07.13.2020 12:38

Sample Depth: 7 - 6.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.24.2020 16:00

Basis: Wet Weight

Seq Number: 3132599

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.24.2020 21:54	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.24.2020 21:54	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.24.2020 21:54	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.24.2020 21:54	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.24.2020 21:54	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	07.24.2020 21:54	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.24.2020 21:54	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	107	%	70-130	07.24.2020 21:54	
4-Bromofluorobenzene	460-00-4	123	%	70-130	07.24.2020 21:54	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-3 (0.5-1)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-018

Date Collected: 07.13.2020 13:01

Sample Depth: 1 - 0.5

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.20.2020 08:50

Basis: Wet Weight

Seq Number: 3132153

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	6.81	5.03	mg/kg	07.20.2020 16:02		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.16.2020 12:00

Basis: Wet Weight

Seq Number: 3131955

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.16.2020 18:47	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.16.2020 18:47	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.16.2020 18:47	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.16.2020 18:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	97	%	70-130	07.16.2020 18:47	
o-Terphenyl	84-15-1	101	%	70-130	07.16.2020 18:47	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-3 (0.5-1)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-018

Date Collected: 07.13.2020 13:01

Sample Depth: 1 - 0.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.24.2020 16:00

Basis: Wet Weight

Seq Number: 3132599

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.24.2020 23:16	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.24.2020 23:16	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.24.2020 23:16	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.24.2020 23:16	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.24.2020 23:16	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	07.24.2020 23:16	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.24.2020 23:16	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	100	%	70-130	07.24.2020 23:16		
1,4-Difluorobenzene	540-36-3	109	%	70-130	07.24.2020 23:16		



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-3 (3.5-4)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-021

Date Collected: 07.13.2020 13:04

Sample Depth: 4 - 3.5

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.20.2020 09:15

Basis: Wet Weight

Seq Number: 3132158

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	180	5.03	mg/kg	07.20.2020 22:13		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.16.2020 12:00

Basis: Wet Weight

Seq Number: 3131955

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.16.2020 19:08	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.16.2020 19:08	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.16.2020 19:08	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.16.2020 19:08	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	99	%	70-130	07.16.2020 19:08	
o-Terphenyl	84-15-1	104	%	70-130	07.16.2020 19:08	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-3 (3.5-4)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-021

Date Collected: 07.13.2020 13:04

Sample Depth: 4 - 3.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.24.2020 16:00

Basis: Wet Weight

Seq Number: 3132599

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.24.2020 23:36	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.24.2020 23:36	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.24.2020 23:36	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.24.2020 23:36	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.24.2020 23:36	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	07.24.2020 23:36	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.24.2020 23:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	114	%	70-130	07.24.2020 23:36	
4-Bromofluorobenzene	460-00-4	107	%	70-130	07.24.2020 23:36	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-3 (5.5-6)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-023

Date Collected: 07.13.2020 13:06

Sample Depth: 6 - 5.5

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.20.2020 09:45

Basis: Wet Weight

Seq Number: 3132159

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	235	4.99	mg/kg	07.21.2020 05:32		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.16.2020 12:00

Basis: Wet Weight

Seq Number: 3131955

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.16.2020 19:30	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.16.2020 19:30	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.16.2020 19:30	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.16.2020 19:30	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	07.16.2020 19:30	
o-Terphenyl	84-15-1	109	%	70-130	07.16.2020 19:30	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-3 (5.5-6)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-023

Date Collected: 07.13.2020 13:06

Sample Depth: 6 - 5.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.24.2020 16:00

Basis: Wet Weight

Seq Number: 3132599

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.24.2020 23:57	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.24.2020 23:57	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.24.2020 23:57	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	07.24.2020 23:57	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.24.2020 23:57	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	07.24.2020 23:57	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.24.2020 23:57	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	07.24.2020 23:57	
1,4-Difluorobenzene	540-36-3	111	%	70-130	07.24.2020 23:57	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-3 (6.5-7)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-024

Date Collected: 07.13.2020 13:07

Sample Depth: 7 - 6.5

Analytical Method: Chloride by EPA 300

Prep Method: E300P

Tech: CHE

% Moisture:

Analyst: CHE

Date Prep: 07.20.2020 09:45

Basis: Wet Weight

Seq Number: 3132159

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.41	5.05	mg/kg	07.21.2020 05:48		1

Analytical Method: TPH by SW8015 Mod

Prep Method: SW8015P

Tech: DVM

% Moisture:

Analyst: ARM

Date Prep: 07.16.2020 12:00

Basis: Wet Weight

Seq Number: 3131955

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.16.2020 19:51	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.16.2020 19:51	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.16.2020 19:51	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.16.2020 19:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	98	%	70-130	07.16.2020 19:51	
o-Terphenyl	84-15-1	103	%	70-130	07.16.2020 19:51	



Certificate of Analytical Results 667225

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H

Sample Id: T-3 (6.5-7)

Matrix: Soil

Date Received: 07.15.2020 09:00

Lab Sample Id: 667225-024

Date Collected: 07.13.2020 13:07

Sample Depth: 7 - 6.5

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.24.2020 16:00

Basis: Wet Weight

Seq Number: 3132599

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.25.2020 00:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.25.2020 00:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.25.2020 00:17	U	1
m,p-Xylenes	179601-23-1	<0.00401	0.00401	mg/kg	07.25.2020 00:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.25.2020 00:17	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	07.25.2020 00:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.25.2020 00:17	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	111	%	70-130	07.25.2020 00:17		
1,4-Difluorobenzene	540-36-3	111	%	70-130	07.25.2020 00:17		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Terracon-Lubbock

Huber Federal 10H

Analytical Method: Chloride by EPA 300

Seq Number: 3132153

MB Sample Id: 7707635-1-BLK

Matrix: Solid

LCS Sample Id: 7707635-1-BKS

Prep Method: E300P

Date Prep: 07.20.2020

LCSD Sample Id: 7707635-1-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	250	100	250	100	90-110	0	20	mg/kg	07.20.2020 13:03	

Analytical Method: Chloride by EPA 300

Seq Number: 3132158

MB Sample Id: 7707636-1-BLK

Matrix: Solid

LCS Sample Id: 7707636-1-BKS

Prep Method: E300P

Date Prep: 07.20.2020

LCSD Sample Id: 7707636-1-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	247	99	248	99	90-110	0	20	mg/kg	07.20.2020 22:02	

Analytical Method: Chloride by EPA 300

Seq Number: 3132159

MB Sample Id: 7707637-1-BLK

Matrix: Solid

LCS Sample Id: 7707637-1-BKS

Prep Method: E300P

Date Prep: 07.20.2020

LCSD Sample Id: 7707637-1-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	07.21.2020 03:48	

Analytical Method: Chloride by EPA 300

Seq Number: 3132153

Parent Sample Id: 667218-008

Matrix: Soil

MS Sample Id: 667218-008 S

Prep Method: E300P

Date Prep: 07.20.2020

MSD Sample Id: 667218-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	333	252	585	100	584	100	90-110	0	20	mg/kg	07.20.2020 13:22	

Analytical Method: Chloride by EPA 300

Seq Number: 3132153

Parent Sample Id: 667225-002

Matrix: Soil

MS Sample Id: 667225-002 S

Prep Method: E300P

Date Prep: 07.20.2020

MSD Sample Id: 667225-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	<5.00	250	269	108	266	106	90-110	1	20	mg/kg	07.20.2020 14:48	

Analytical Method: Chloride by EPA 300

Seq Number: 3132158

Parent Sample Id: 667225-021

Matrix: Soil

MS Sample Id: 667225-021 S

Prep Method: E300P

Date Prep: 07.20.2020

MSD Sample Id: 667225-021 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	180	252	432	100	423	96	90-110	2	20	mg/kg	07.20.2020 22:18	

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



Terracon-Lubbock

Huber Federal 10H

Analytical Method: Chloride by EPA 300

Seq Number: 3132158

Parent Sample Id: 667272-010

Matrix: Soil

MS Sample Id: 667272-010 S

Prep Method: E300P

Date Prep: 07.20.2020

MSD Sample Id: 667272-010 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	14.2	250	273	104	274	104	90-110	0	20	mg/kg	07.20.2020 23:36	

Analytical Method: Chloride by EPA 300

Seq Number: 3132159

Parent Sample Id: 667352-002

Matrix: Soil

MS Sample Id: 667352-002 S

Prep Method: E300P

Date Prep: 07.20.2020

MSD Sample Id: 667352-002 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	602	249	784	73	822	88	90-110	5	20	mg/kg	07.21.2020 04:03	X

Analytical Method: Chloride by EPA 300

Seq Number: 3132159

Parent Sample Id: 667397-001

Matrix: Sludge

MS Sample Id: 667397-001 S

Prep Method: E300P

Date Prep: 07.20.2020

MSD Sample Id: 667397-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	2990	1250	4130	91	4380	111	90-110	6	20	mg/kg	07.21.2020 05:16	X

Analytical Method: TPH by SW8015 Mod

Seq Number: 3131955

MB Sample Id: 7707520-1-BLK

Matrix: Solid

LCS Sample Id: 7707520-1-BKS

Prep Method: SW8015P

Date Prep: 07.16.2020

LCSD Sample Id: 7707520-1-BSD

Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<50.0	1000	885	89	939	94	70-130	6	20	mg/kg	07.16.2020 11:54	
Diesel Range Organics (DRO)	<50.0	1000	981	98	1000	100	70-130	2	20	mg/kg	07.16.2020 11:54	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	102		99		102		70-130	%	07.16.2020 11:54
o-Terphenyl	111		100		105		70-130	%	07.16.2020 11:54

Analytical Method: TPH by SW8015 Mod

Seq Number: 3131955

Matrix: Solid

MB Sample Id: 7707520-1-BLK

Prep Method: SW8015P

Date Prep: 07.16.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.16.2020 11:33	

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

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

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

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



Terracon-Lubbock

Huber Federal 10H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3131955

Parent Sample Id: 667184-001

Matrix: Soil

MS Sample Id: 667184-001 S

Prep Method: SW8015P

Date Prep: 07.16.2020

MSD Sample Id: 667184-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	959	96	949	95	70-130	1	20	mg/kg	07.16.2020 13:00	
Diesel Range Organics (DRO)	<49.9	997	1050	105	1040	104	70-130	1	20	mg/kg	07.16.2020 13:00	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	106		104		70-130	%	07.16.2020 13:00
o-Terphenyl	103		101		70-130	%	07.16.2020 13:00

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132132

MB Sample Id: 7707709-1-BLK

Matrix: Solid

LCS Sample Id: 7707709-1-BKS

Prep Method: SW5035A

Date Prep: 07.20.2020

LCSD Sample Id: 7707709-1-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	0.0811	81	0.0859	86	70-130	6	35	mg/kg	07.20.2020 08:06	
Toluene	<0.00200	0.100	0.0812	81	0.0858	86	70-130	6	35	mg/kg	07.20.2020 08:06	
Ethylbenzene	<0.00200	0.100	0.0942	94	0.101	101	70-130	7	35	mg/kg	07.20.2020 08:06	
m,p-Xylenes	<0.00400	0.200	0.194	97	0.208	104	70-130	7	35	mg/kg	07.20.2020 08:06	
o-Xylene	<0.00200	0.100	0.0989	99	0.105	105	70-130	6	35	mg/kg	07.20.2020 08:06	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	70		76		77		70-130	%	07.20.2020 08:06
4-Bromofluorobenzene	145	**	164	**	166	**	70-130	%	07.20.2020 08:06

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132552

MB Sample Id: 7707987-1-BLK

Matrix: Solid

LCS Sample Id: 7707987-1-BKS

Prep Method: SW5035A

Date Prep: 07.23.2020

LCSD Sample Id: 7707987-1-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	0.113	113	0.115	115	70-130	2	35	mg/kg	07.24.2020 09:32	
Toluene	<0.00200	0.100	0.109	109	0.108	108	70-130	1	35	mg/kg	07.24.2020 09:32	
Ethylbenzene	<0.00200	0.100	0.108	108	0.107	107	70-130	1	35	mg/kg	07.24.2020 09:32	
m,p-Xylenes	<0.00400	0.200	0.209	105	0.207	104	70-130	1	35	mg/kg	07.24.2020 09:32	
o-Xylene	<0.00200	0.100	0.0992	99	0.0986	99	70-130	1	35	mg/kg	07.24.2020 09:32	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		93		99		70-130	%	07.24.2020 09:32
4-Bromofluorobenzene	102		94		101		70-130	%	07.24.2020 09:32

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



Terracon-Lubbock

Huber Federal 10H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132599

Matrix: Solid

Prep Method: SW5035A

Date Prep: 07.24.2020

MB Sample Id: 7708069-1-BLK

LCS Sample Id: 7708069-1-BKS

LCSD Sample Id: 7708069-1-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	0.106	106	0.0954	95	70-130	11	35	mg/kg	07.24.2020 16:46	
Toluene	<0.00200	0.100	0.101	101	0.0903	90	70-130	11	35	mg/kg	07.24.2020 16:46	
Ethylbenzene	<0.00200	0.100	0.0975	98	0.0879	88	70-130	10	35	mg/kg	07.24.2020 16:46	
m,p-Xylenes	<0.00400	0.200	0.190	95	0.169	85	70-130	12	35	mg/kg	07.24.2020 16:46	
o-Xylene	<0.00200	0.100	0.0924	92	0.0852	85	70-130	8	35	mg/kg	07.24.2020 16:46	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	106		97		99		70-130	%	07.24.2020 16:46
4-Bromofluorobenzene	105		96		98		70-130	%	07.24.2020 16:46

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132132

Matrix: Soil

Prep Method: SW5035A

Date Prep: 07.20.2020

Parent Sample Id: 667218-008

MS Sample Id: 667218-008 S

MSD Sample Id: 667218-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00200	0.0998	0.0758	76	0.0808	81	70-130	6	35	mg/kg	07.20.2020 08:47	
Toluene	<0.00200	0.0998	0.0652	65	0.0703	71	70-130	8	35	mg/kg	07.20.2020 08:47	X
Ethylbenzene	<0.00200	0.0998	0.0754	76	0.0794	80	70-130	5	35	mg/kg	07.20.2020 08:47	
m,p-Xylenes	<0.00399	0.200	0.0603	30	0.0978	49	70-130	47	35	mg/kg	07.20.2020 08:47	XF
o-Xylene	<0.00200	0.0998	0.0882	88	0.0925	93	70-130	5	35	mg/kg	07.20.2020 08:47	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	77		77		70-130	%	07.20.2020 08:47
4-Bromofluorobenzene	168	**	171	**	70-130	%	07.20.2020 08:47

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132552

Matrix: Soil

Prep Method: SW5035A

Date Prep: 07.23.2020

Parent Sample Id: 667249-001

MS Sample Id: 667249-001 S

MSD Sample Id: 667249-001 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	0.0990	0.0835	84	0.0822	83	70-130	2	35	mg/kg	07.23.2020 18:04	
Toluene	<0.00198	0.0990	0.0696	70	0.0685	69	70-130	2	35	mg/kg	07.23.2020 18:04	X
Ethylbenzene	<0.00198	0.0990	0.0601	61	0.0580	58	70-130	4	35	mg/kg	07.23.2020 18:04	X
m,p-Xylenes	<0.00396	0.198	0.115	58	0.111	56	70-130	4	35	mg/kg	07.23.2020 18:04	X
o-Xylene	<0.00198	0.0990	0.0584	59	0.0567	57	70-130	3	35	mg/kg	07.23.2020 18:04	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	102		103		70-130	%	07.23.2020 18:04
4-Bromofluorobenzene	99		102		70-130	%	07.23.2020 18:04

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

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

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

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



Terracon-Lubbock

Huber Federal 10H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3132599

Parent Sample Id: 667447-001

Matrix: Soil

MS Sample Id: 667447-001 S

Prep Method: SW5035A

Date Prep: 07.24.2020

MSD Sample Id: 667447-001 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	0.0725	73	0.0781	78	70-130	7	35	mg/kg	07.24.2020 17:27	
Toluene	<0.00199	0.0994	0.0679	68	0.0738	74	70-130	8	35	mg/kg	07.24.2020 17:27	X
Ethylbenzene	<0.00199	0.0994	0.0631	63	0.0678	68	70-130	7	35	mg/kg	07.24.2020 17:27	X
m,p-Xylenes	<0.00398	0.199	0.107	54	0.128	64	70-130	18	35	mg/kg	07.24.2020 17:27	X
o-Xylene	<0.00199	0.0994	0.0580	58	0.0624	62	70-130	7	35	mg/kg	07.24.2020 17:27	X

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		102		70-130	%	07.24.2020 17:27
4-Bromofluorobenzene	102		107		70-130	%	07.24.2020 17:27

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

667225

[illegible]

667225

[illegible]

Inter-Office Shipment

IOS Number : **67131**

Date/Time: 07.15.2020

Created by: Michael J Turner

Please send report to: Jessica Kramer

Lab# From: **Lubbock**

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: **Midland**

Air Bill No.: 770966887317

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
667225-001	S	BG-1 (0.5-1)	07.13.2020 12:00	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-001	S	BG-1 (0.5-1)	07.13.2020 12:00	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-001	S	BG-1 (0.5-1)	07.13.2020 12:00	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-002	S	BG-2 (0.5-1)	07.13.2020 12:04	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-002	S	BG-2 (0.5-1)	07.13.2020 12:04	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-002	S	BG-2 (0.5-1)	07.13.2020 12:04	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-003	S	BG-3 (0.5-1)	07.13.2020 12:06	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-003	S	BG-3 (0.5-1)	07.13.2020 12:06	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-003	S	BG-3 (0.5-1)	07.13.2020 12:06	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-004	S	T-1 (0.5-1)	07.13.2020 12:20	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-004	S	T-1 (0.5-1)	07.13.2020 12:20	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-004	S	T-1 (0.5-1)	07.13.2020 12:20	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-005	S	T-1 (1.5-2)	07.13.2020 12:21	SW8021B	BTEX by EPA 8021B	HOLD	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-005	S	T-1 (1.5-2)	07.13.2020 12:21	SW8015MOD_NM	TPH by SW8015 Mod	HOLD	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-005	S	T-1 (1.5-2)	07.13.2020 12:21	E300_CL	Chloride by EPA 300	HOLD	08.10.2020	JKR	CL	
667225-006	S	T-1 (2.5-3)	07.13.2020 12:22	SW8015MOD_NM	TPH by SW8015 Mod	HOLD	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-006	S	T-1 (2.5-3)	07.13.2020 12:22	SW8021B	BTEX by EPA 8021B	HOLD	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-006	S	T-1 (2.5-3)	07.13.2020 12:22	E300_CL	Chloride by EPA 300	HOLD	08.10.2020	JKR	CL	
667225-007	S	T-1 (3.5-4)	07.13.2020 12:23	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-007	S	T-1 (3.5-4)	07.13.2020 12:23	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-007	S	T-1 (3.5-4)	07.13.2020 12:23	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-008	S	T-1 (4.5-5)	07.13.2020 12:24	SW8015MOD_NM	TPH by SW8015 Mod	HOLD	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-008	S	T-1 (4.5-5)	07.13.2020 12:24	SW8021B	BTEX by EPA 8021B	HOLD	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-008	S	T-1 (4.5-5)	07.13.2020 12:24	E300_CL	Chloride by EPA 300	HOLD	08.10.2020	JKR	CL	
667225-009	S	T-1 (5.5-6)	07.13.2020 12:25	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	

Inter-Office Shipment

IOS Number : **67131**

Date/Time: 07.15.2020

Created by: Michael J Turner

Please send report to: Jessica Kramer

Lab# From: **Lubbock**

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: **Midland**

Air Bill No.: 770966887317

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
667225-009	S	T-1 (5.5-6)	07.13.2020 12:25	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-009	S	T-1 (5.5-6)	07.13.2020 12:25	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-010	S	T-1 (6.5-7)	07.13.2020 12:26	SW8021B	BTEX by EPA 8021B	HOLD	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-010	S	T-1 (6.5-7)	07.13.2020 12:26	E300_CL	Chloride by EPA 300	HOLD	08.10.2020	JKR	CL	
667225-010	S	T-1 (6.5-7)	07.13.2020 12:26	SW8015MOD_NM	TPH by SW8015 Mod	HOLD	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-011	S	T-2 (0.5-1)	07.13.2020 12:32	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-011	S	T-2 (0.5-1)	07.13.2020 12:32	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-011	S	T-2 (0.5-1)	07.13.2020 12:32	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-012	S	T-2 (1.5-2)	07.13.2020 12:33	SW8015MOD_NM	TPH by SW8015 Mod	HOLD	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-012	S	T-2 (1.5-2)	07.13.2020 12:33	E300_CL	Chloride by EPA 300	HOLD	08.10.2020	JKR	CL	
667225-012	S	T-2 (1.5-2)	07.13.2020 12:33	SW8021B	BTEX by EPA 8021B	HOLD	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-013	S	T-2 (2.5-3)	07.13.2020 12:34	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-013	S	T-2 (2.5-3)	07.13.2020 12:34	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-013	S	T-2 (2.5-3)	07.13.2020 12:34	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-014	S	T-2 (3.5-4)	07.13.2020 12:35	SW8021B	BTEX by EPA 8021B	HOLD	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-014	S	T-2 (3.5-4)	07.13.2020 12:35	E300_CL	Chloride by EPA 300	HOLD	08.10.2020	JKR	CL	
667225-014	S	T-2 (3.5-4)	07.13.2020 12:35	SW8015MOD_NM	TPH by SW8015 Mod	HOLD	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-015	S	T-2 (4.5-5)	07.13.2020 12:36	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-015	S	T-2 (4.5-5)	07.13.2020 12:36	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-015	S	T-2 (4.5-5)	07.13.2020 12:36	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-016	S	T-2 (5.5-6)	07.13.2020 12:37	SW8015MOD_NM	TPH by SW8015 Mod	HOLD	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-016	S	T-2 (5.5-6)	07.13.2020 12:37	SW8021B	BTEX by EPA 8021B	HOLD	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-016	S	T-2 (5.5-6)	07.13.2020 12:37	E300_CL	Chloride by EPA 300	HOLD	08.10.2020	JKR	CL	
667225-017	S	T-2 (6.5-7)	07.13.2020 12:38	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C35	
667225-017	S	T-2 (6.5-7)	07.13.2020 12:38	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : **67131**

Date/Time: 07.15.2020

Created by: Michael J Turner

Please send report to: Jessica Kramer

Lab# From: **Lubbock**

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: **Midland**

Air Bill No.: 770966887317

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
667225-017	S	T-2 (6.5-7)	07.13.2020 12:38	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-018	S	T-3 (0.5-1)	07.13.2020 13:01	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-018	S	T-3 (0.5-1)	07.13.2020 13:01	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-018	S	T-3 (0.5-1)	07.13.2020 13:01	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C3	
667225-019	S	T-3 (1.5-2)	07.13.2020 13:02	SW8015MOD_NM	TPH by SW8015 Mod	HOLD	07.27.2020	JKR	PHCC10C28 PHCC28C3	
667225-019	S	T-3 (1.5-2)	07.13.2020 13:02	SW8021B	BTEX by EPA 8021B	HOLD	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-019	S	T-3 (1.5-2)	07.13.2020 13:02	E300_CL	Chloride by EPA 300	HOLD	08.10.2020	JKR	CL	
667225-020	S	T-3 (2.5-3)	07.13.2020 13:03	SW8015MOD_NM	TPH by SW8015 Mod	HOLD	07.27.2020	JKR	PHCC10C28 PHCC28C3	
667225-020	S	T-3 (2.5-3)	07.13.2020 13:03	SW8021B	BTEX by EPA 8021B	HOLD	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-020	S	T-3 (2.5-3)	07.13.2020 13:03	E300_CL	Chloride by EPA 300	HOLD	08.10.2020	JKR	CL	
667225-021	S	T-3 (3.5-4)	07.13.2020 13:04	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-021	S	T-3 (3.5-4)	07.13.2020 13:04	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-021	S	T-3 (3.5-4)	07.13.2020 13:04	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C3	
667225-022	S	T-3 (4.5-5)	07.13.2020 13:05	SW8015MOD_NM	TPH by SW8015 Mod	HOLD	07.27.2020	JKR	PHCC10C28 PHCC28C3	
667225-022	S	T-3 (4.5-5)	07.13.2020 13:05	E300_CL	Chloride by EPA 300	HOLD	08.10.2020	JKR	CL	
667225-022	S	T-3 (4.5-5)	07.13.2020 13:05	SW8021B	BTEX by EPA 8021B	HOLD	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-023	S	T-3 (5.5-6)	07.13.2020 13:06	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	
667225-023	S	T-3 (5.5-6)	07.13.2020 13:06	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C3	
667225-023	S	T-3 (5.5-6)	07.13.2020 13:06	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-024	S	T-3 (6.5-7)	07.13.2020 13:07	SW8021B	BTEX by EPA 8021B	07.21.2020	07.27.2020	JKR	BR4FBZ BZ BZME EBZ	
667225-024	S	T-3 (6.5-7)	07.13.2020 13:07	SW8015MOD_NM	TPH by SW8015 Mod	07.21.2020	07.27.2020	JKR	PHCC10C28 PHCC28C3	
667225-024	S	T-3 (6.5-7)	07.13.2020 13:07	E300_CL	Chloride by EPA 300	07.21.2020	08.10.2020	JKR	CL	

Inter Office Shipment or Sample Comments:

Relinquished By:



Date Relinquished: Michael J Turner

Received By:



Date Received:

Brianna Teel

07.16.2020

Inter-Office Shipment

IOS Number : 67131

Date/Time: 07.15.2020

Created by: Michael J Turner

Please send report to: Jessica Kramer

Lab# From: **Lubbock**

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: **Midland**

Air Bill No.: 770966887317

E-Mail: jessica.kramer@xenco.com

Inter Office Shipment or Sample Comments:

07.15.2020

Cooler Temperature: 0.9



Xenco



Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 67131

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sent By: Michael J Turner

Date Sent: 07.15.2020 10.54 AM

Received By: Brianna Teel

Date Received: 07.16.2020 10.08 AM

Sample Receipt Checklist

Comments

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

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Brianna Teel

Date: 07.16.2020

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Terracon-Lubbock

Date/ Time Received: 07.15.2020 09.00.00 AM

Work Order #: 667225

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-4

Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	10.2
#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)?	Yes Xenco Midland
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Michael J Turner

Date: 07.15.2020

Checklist reviewed by:



Jessica Kramer

Date: 07.17.2020

Certificate of Analysis Summary 668310

Terracon-Lubbock, Lubbock, TX

Project Name: Huber Fed #010H

Project Id: AR207114
 Contact: Joseph Guesnier
 Project Location:

Date Received in Lab: Mon 07.27.2020 16:35
 Report Date: 08.03.2020 12:06
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	668310-001	668310-002	668310-003	668310-004	668310-005	668310-006
	Field Id:	EW-1	NW-1	WW-1	SW-1	A1-1	A2-1
	Depth:	2-3	2-3	2-3	1-2	2-3	2-3
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	07.24.2020 10:00	07.24.2020 10:05	07.24.2020 10:10	07.24.2020 10:15	07.24.2020 10:20	07.24.2020 10:25
BTEX by EPA 8021B SUB: T104704400-20-20	Extracted:	07.31.2020 08:30	07.31.2020 08:30	07.31.2020 08:30	07.31.2020 08:30	07.31.2020 08:30	07.31.2020 08:30
	Analyzed:	07.31.2020 13:49	07.31.2020 17:34	07.31.2020 17:55	07.31.2020 18:15	07.31.2020 18:36	07.31.2020 18:56
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Toluene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Ethylbenzene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
m,p-Xylenes		<0.00398 0.00398	<0.00397 0.00397	<0.00399 0.00399	<0.00398 0.00398	<0.00396 0.00396	<0.00399 0.00399
o-Xylene		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Xylenes, Total		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Total BTEX		<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200	<0.00199 0.00199	<0.00198 0.00198	<0.00200 0.00200
Chloride by EPA 300 SUB: T104704400-20-20	Extracted:	07.29.2020 16:30	07.29.2020 16:30	07.29.2020 16:30	07.29.2020 16:30	07.29.2020 16:30	07.29.2020 16:30
	Analyzed:	07.30.2020 00:31	07.30.2020 00:47	07.30.2020 08:24	07.30.2020 00:57	07.30.2020 08:29	07.30.2020 01:08
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		112 5.01	67.1 5.04	22.3 4.98	10.7 4.95	12.8 5.03	11.2 4.99
TPH by SW8015 Mod SUB: T104704400-20-20	Extracted:	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00
	Analyzed:	07.29.2020 12:36	07.29.2020 13:40	07.29.2020 14:02	07.29.2020 14:23	07.29.2020 14:45	07.29.2020 15:06
	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	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9
Total TPH		<50.0 50.0	<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.9 49.9

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Certificate of Analysis Summary 668310



Terracon-Lubbock, Lubbock, TX

Project Name: Huber Fed #010H

Project Id: AR207114
 Contact: Joseph Guesnier
 Project Location:

Date Received in Lab: Mon 07.27.2020 16:35
 Report Date: 08.03.2020 12:06
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	668310-007	668310-008	668310-009	668310-010	668310-011	668310-012
	Field Id:	A3-1	B1-1	B2-1	B3-1	C1-1	C2-1
	Depth:	2-3	2-3	2-3	2-3	2-3	2-3
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	07.24.2020 10:30	07.24.2020 10:35	07.24.2020 10:40	07.24.2020 10:45	07.24.2020 10:50	07.24.2020 10:55
BTEX by EPA 8021B SUB: T104704400-20-20	Extracted:	07.31.2020 08:30	07.31.2020 08:30	07.31.2020 08:30	07.31.2020 08:30	07.31.2020 08:30	07.31.2020 08:30
	Analyzed:	07.31.2020 19:17	07.31.2020 19:37	07.31.2020 19:58	07.31.2020 20:18	07.31.2020 20:39	07.31.2020 22:01
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
m,p-Xylenes		<0.00399 0.00399	<0.00398 0.00398	<0.00402 0.00402	<0.00399 0.00399	<0.00398 0.00398	<0.00400 0.00400
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Xylenes, Total		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00201 0.00201	<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200
Chloride by EPA 300 SUB: T104704400-20-20	Extracted:	07.29.2020 16:30	07.29.2020 16:30	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20
	Analyzed:	07.30.2020 01:13	07.30.2020 08:34	07.30.2020 10:07	07.30.2020 10:23	07.30.2020 10:28	07.30.2020 10:33
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
		186 5.02	10.3 5.02	8.59 5.03	130 4.99	7.68 4.98	9.40 4.97
Chloride		186 5.02	10.3 5.02	8.59 5.03	130 4.99	7.68 4.98	9.40 4.97
TPH by SW8015 Mod SUB: T104704400-20-20	Extracted:	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00
	Analyzed:	07.29.2020 15:28	07.29.2020 15:49	07.29.2020 16:11	07.29.2020 16:32	07.29.2020 17:15	07.29.2020 17:37
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
		<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<49.8 49.8	<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)		<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<49.8 49.8	<50.0 50.0	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9

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Certificate of Analysis Summary 668310



Terracon-Lubbock, Lubbock, TX

Project Name: Huber Fed #010H

Project Id: AR207114
 Contact: Joseph Guesnier
 Project Location:

Date Received in Lab: Mon 07.27.2020 16:35
 Report Date: 08.03.2020 12:06
 Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	668310-013	668310-014	668310-015	668310-016	668310-017	668310-018
	<i>Field Id:</i>	D1-1	D2-1	E1-1	E2-1	E3-1	F1-1
	<i>Depth:</i>	2-3	2-3	4-5	4-5	4-5	4-5
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	07.24.2020 11:00	07.24.2020 11:05	07.24.2020 11:10	07.24.2020 11:15	07.24.2020 11:20	07.24.2020 11:25
BTEX by EPA 8021B SUB: T104704400-20-20	<i>Extracted:</i>	07.31.2020 08:30	07.31.2020 17:15	07.31.2020 17:15	07.31.2020 17:15	07.31.2020 17:15	07.31.2020 17:15
	<i>Analyzed:</i>	07.31.2020 22:22	08.01.2020 01:45	08.01.2020 02:06	08.01.2020 02:26	08.01.2020 02:46	08.01.2020 03:07
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Toluene		<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Ethylbenzene		<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
m,p-Xylenes		<0.00397 0.00397	<0.00404 0.00404	<0.00402 0.00402	<0.00397 0.00397	<0.00399 0.00399	<0.00403 0.00403
o-Xylene		<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Xylenes, Total		<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Total BTEX		<0.00198 0.00198	<0.00202 0.00202	<0.00201 0.00201	<0.00198 0.00198	<0.00200 0.00200	<0.00202 0.00202
Chloride by EPA 300 SUB: T104704400-20-20	<i>Extracted:</i>	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20
	<i>Analyzed:</i>	07.30.2020 10:38	07.30.2020 12:34	07.30.2020 12:40	07.30.2020 11:05	07.30.2020 11:10	07.30.2020 12:45
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		137 4.97	16.5 5.02	10.5 5.01	88.2 4.99	57.6 4.96	10.7 5.02
TPH by SW8015 Mod SUB: T104704400-20-20	<i>Extracted:</i>	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00
	<i>Analyzed:</i>	07.29.2020 17:58	07.29.2020 18:20	07.29.2020 18:41	07.29.2020 19:03	07.29.2020 19:24	07.29.2020 19:46
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0
Total TPH		<49.8 49.8	<50.0 50.0	<50.0 50.0	<49.9 49.9	<49.8 49.8	<50.0 50.0

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Certificate of Analysis Summary 668310



Terracon-Lubbock, Lubbock, TX

Project Name: Huber Fed #010H

Project Id: AR207114
 Contact: Joseph Guesnier
 Project Location:

Date Received in Lab: Mon 07.27.2020 16:35
 Report Date: 08.03.2020 12:06
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	668310-019	668310-020	668310-021	668310-022	668310-023	668310-024
	Field Id:	F2-1	F3-1	G1-1	H1-1	H2-1	I1-1
	Depth:	4-5	4-5	4-5	4-5	4-5	4-5
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	07.24.2020 11:30	07.24.2020 11:35	07.24.2020 11:40	07.24.2020 11:45	07.24.2020 11:50	07.24.2020 11:55
BTEX by EPA 8021B SUB: T104704400-20-20	Extracted:	07.31.2020 17:15	07.31.2020 17:15	07.31.2020 17:15	07.31.2020 17:15	07.31.2020 17:15	07.31.2020 17:15
	Analyzed:	08.01.2020 03:27	08.01.2020 03:48	08.01.2020 04:08	08.01.2020 04:28	08.01.2020 04:49	08.01.2020 06:11
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Toluene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Ethylbenzene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
m,p-Xylenes		<0.00398 0.00398	<0.00400 0.00400	<0.00397 0.00397	<0.00398 0.00398	<0.00398 0.00398	<0.00402 0.00402
o-Xylene		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Xylenes, Total		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Total BTEX		<0.00199 0.00199	<0.00200 0.00200	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Chloride by EPA 300 SUB: T104704400-20-20	Extracted:	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20
	Analyzed:	07.30.2020 11:21	07.30.2020 11:36	07.30.2020 13:01	07.30.2020 11:58	07.30.2020 12:03	07.30.2020 12:08
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		111 50.3	204 5.02	35.9 5.01	18.7 4.96	43.3 4.97	57.2 4.97
TPH by SW8015 Mod SUB: T104704400-20-20	Extracted:	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00
	Analyzed:	07.29.2020 20:07	07.29.2020 20:28	07.29.2020 16:32	07.29.2020 17:15	07.29.2020 17:37	07.29.2020 17:58
	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	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<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	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<49.9 49.9	<49.9 49.9	<50.0 50.0	<50.0 50.0	<49.9 49.9

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 668310

Terracon-Lubbock, Lubbock, TX

Project Name: Huber Fed #010H

Project Id: AR207114
 Contact: Joseph Guesnier
 Project Location:

Date Received in Lab: Mon 07.27.2020 16:35
 Report Date: 08.03.2020 12:06
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	668310-025	668310-026	668310-027	668310-028		
	Field Id:	K2-1	L2-1	N2-1	N3-1		
	Depth:	4-5	4-5	4-5	4-5		
	Matrix:	SOIL	SOIL	SOIL	SOIL		
	Sampled:	07.24.2020 12:00	07.24.2020 12:05	07.24.2020 12:10	07.24.2020 12:15		
BTEX by EPA 8021B SUB: T104704400-20-20	Extracted:	07.31.2020 17:15	07.31.2020 17:15	07.31.2020 17:15	07.31.2020 17:15		
	Analyzed:	08.01.2020 06:31	08.01.2020 06:52	08.01.2020 07:12	08.01.2020 07:33		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Benzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199		
Toluene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199		
Ethylbenzene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199		
m,p-Xylenes		<0.00399 0.00399	<0.00398 0.00398	<0.00400 0.00400	<0.00398 0.00398		
o-Xylene		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199		
Xylenes, Total		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199		
Total BTEX		<0.00200 0.00200	<0.00199 0.00199	<0.00200 0.00200	<0.00199 0.00199		
Chloride by EPA 300 SUB: T104704400-20-20	Extracted:	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20	07.29.2020 17:20		
	Analyzed:	07.30.2020 12:13	07.30.2020 12:19	07.30.2020 12:24	07.30.2020 12:29		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Chloride		207 5.04	226 5.02	128 5.05	212 4.98		
TPH by SW8015 Mod SUB: T104704400-20-20	Extracted:	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00	07.29.2020 12:00		
	Analyzed:	07.29.2020 18:20	07.29.2020 18:41	07.29.2020 19:03	07.29.2020 19:24		
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL		
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8		
Diesel Range Organics (DRO)		<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8		
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8		
Total TPH		<50.0 50.0	<49.9 49.9	<49.9 49.9	<49.8 49.8		

BRL - Below Reporting Limit

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



Analytical Report 668310

for

Terracon-Lubbock

Project Manager: Joseph Guesnier

Huber Fed #010H

AR207114

08.03.2020

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNi02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.03.2020

Project Manager: **Joseph Guesnier**

Terracon-Lubbock

5827 50th st, Suite 1

Lubbock, TX 79424

Reference: Eurofins Xenco, LLC Report No(s): **668310**

Huber Fed #010H

Project Address:

Joseph Guesnier:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 668310. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 668310 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

Sample Cross Reference 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
EW-1	S	07.24.2020 10:00	2 - 3	668310-001
NW-1	S	07.24.2020 10:05	2 - 3	668310-002
WW-1	S	07.24.2020 10:10	2 - 3	668310-003
SW-1	S	07.24.2020 10:15	1 - 2	668310-004
A1-1	S	07.24.2020 10:20	2 - 3	668310-005
A2-1	S	07.24.2020 10:25	2 - 3	668310-006
A3-1	S	07.24.2020 10:30	2 - 3	668310-007
B1-1	S	07.24.2020 10:35	2 - 3	668310-008
B2-1	S	07.24.2020 10:40	2 - 3	668310-009
B3-1	S	07.24.2020 10:45	2 - 3	668310-010
C1-1	S	07.24.2020 10:50	2 - 3	668310-011
C2-1	S	07.24.2020 10:55	2 - 3	668310-012
D1-1	S	07.24.2020 11:00	2 - 3	668310-013
D2-1	S	07.24.2020 11:05	2 - 3	668310-014
E1-1	S	07.24.2020 11:10	4 - 5	668310-015
E2-1	S	07.24.2020 11:15	4 - 5	668310-016
E3-1	S	07.24.2020 11:20	4 - 5	668310-017
F1-1	S	07.24.2020 11:25	4 - 5	668310-018
F2-1	S	07.24.2020 11:30	4 - 5	668310-019
F3-1	S	07.24.2020 11:35	4 - 5	668310-020
G1-1	S	07.24.2020 11:40	4 - 5	668310-021
H1-1	S	07.24.2020 11:45	4 - 5	668310-022
H2-1	S	07.24.2020 11:50	4 - 5	668310-023
I1-1	S	07.24.2020 11:55	4 - 5	668310-024
K2-1	S	07.24.2020 12:00	4 - 5	668310-025
L2-1	S	07.24.2020 12:05	4 - 5	668310-026
N2-1	S	07.24.2020 12:10	4 - 5	668310-027
N3-1	S	07.24.2020 12:15	4 - 5	668310-028



CASE NARRATIVE

Client Name: Terracon-Lubbock

Project Name: Huber Fed #010H

Project ID: AR207114
Work Order Number(s): 668310

Report Date: 08.03.2020
Date Received: 07.27.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3133262 BTEX by EPA 8021B

Surrogate 4-Bromofluorobenzene recovered above QC limits. Matrix interferences is suspected.

Samples affected are: 668310-015,668310-016,668310-017,668310-018,668310-019,668310-028,668310-021,668310-023,668310-025,668310-027,668310-020.



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **EW-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-001 Date Collected: 07.24.2020 10:00 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3133022 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	112	5.01	mg/kg	07.30.2020 00:31		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 12:36	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 12:36	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 12:36	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 12:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	07.29.2020 12:36	
o-Terphenyl	84-15-1	115	%	70-130	07.29.2020 12:36	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **EW-1**
Lab Sample Id: 668310-001

Matrix: Soil
Date Collected: 07.24.2020 10:00

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.31.2020 13:49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.31.2020 13:49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.31.2020 13:49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.31.2020 13:49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.31.2020 13:49	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	07.31.2020 13:49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.31.2020 13:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	108	%	70-130	07.31.2020 13:49	
1,4-Difluorobenzene	540-36-3	106	%	70-130	07.31.2020 13:49	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **NW-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-002 Date Collected: 07.24.2020 10:05 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3133022 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	67.1	5.04	mg/kg	07.30.2020 00:47		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.29.2020 13:40	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.29.2020 13:40	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.29.2020 13:40	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.29.2020 13:40	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	07.29.2020 13:40	
o-Terphenyl	84-15-1	116	%	70-130	07.29.2020 13:40	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **NW-1**
Lab Sample Id: 668310-002

Matrix: Soil
Date Collected: 07.24.2020 10:05

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.31.2020 17:34	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.31.2020 17:34	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.31.2020 17:34	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	07.31.2020 17:34	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.31.2020 17:34	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	07.31.2020 17:34	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.31.2020 17:34	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	93	%	70-130	07.31.2020 17:34		
1,4-Difluorobenzene	540-36-3	93	%	70-130	07.31.2020 17:34		



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **WW-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-003 Date Collected: 07.24.2020 10:10 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3133022 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	22.3	4.98	mg/kg	07.30.2020 08:24		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 14:02	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 14:02	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 14:02	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 14:02	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	07.29.2020 14:02	
o-Terphenyl	84-15-1	113	%	70-130	07.29.2020 14:02	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **WW-1**
Lab Sample Id: 668310-003

Matrix: Soil
Date Collected: 07.24.2020 10:10

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.31.2020 17:55	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.31.2020 17:55	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.31.2020 17:55	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.31.2020 17:55	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.31.2020 17:55	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	07.31.2020 17:55	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.31.2020 17:55	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	112	%	70-130	07.31.2020 17:55	
1,4-Difluorobenzene	540-36-3	98	%	70-130	07.31.2020 17:55	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **SW-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-004 Date Collected: 07.24.2020 10:15 Sample Depth: 1 - 2
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3133022 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.7	4.95	mg/kg	07.30.2020 00:57		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 14:23	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 14:23	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 14:23	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 14:23	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-130	07.29.2020 14:23	
o-Terphenyl	84-15-1	123	%	70-130	07.29.2020 14:23	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **SW-1**
Lab Sample Id: 668310-004

Matrix: Soil
Date Collected: 07.24.2020 10:15

Date Received: 07.27.2020 16:35
Sample Depth: 1 - 2

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.31.2020 18:15	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.31.2020 18:15	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.31.2020 18:15	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.31.2020 18:15	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.31.2020 18:15	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	07.31.2020 18:15	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.31.2020 18:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	99	%	70-130	07.31.2020 18:15	
4-Bromofluorobenzene	460-00-4	109	%	70-130	07.31.2020 18:15	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **A1-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-005 Date Collected: 07.24.2020 10:20 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3133022 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	12.8	5.03	mg/kg	07.30.2020 08:29		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.29.2020 14:45	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.29.2020 14:45	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.29.2020 14:45	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.29.2020 14:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	07.29.2020 14:45	
o-Terphenyl	84-15-1	126	%	70-130	07.29.2020 14:45	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **A1-1**
Lab Sample Id: 668310-005

Matrix: Soil
Date Collected: 07.24.2020 10:20

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.31.2020 18:36	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.31.2020 18:36	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.31.2020 18:36	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	07.31.2020 18:36	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.31.2020 18:36	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	07.31.2020 18:36	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.31.2020 18:36	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	119	%	70-130	07.31.2020 18:36	
1,4-Difluorobenzene	540-36-3	98	%	70-130	07.31.2020 18:36	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **A2-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-006 Date Collected: 07.24.2020 10:25 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3133022 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	11.2	4.99	mg/kg	07.30.2020 01:08		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.29.2020 15:06	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.29.2020 15:06	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.29.2020 15:06	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.29.2020 15:06	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	119	%	70-130	07.29.2020 15:06	
o-Terphenyl	84-15-1	121	%	70-130	07.29.2020 15:06	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **A2-1**
Lab Sample Id: 668310-006

Matrix: Soil
Date Collected: 07.24.2020 10:25

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.31.2020 18:56	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.31.2020 18:56	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.31.2020 18:56	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.31.2020 18:56	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.31.2020 18:56	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	07.31.2020 18:56	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.31.2020 18:56	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	07.31.2020 18:56		
4-Bromofluorobenzene	460-00-4	128	%	70-130	07.31.2020 18:56		



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **A3-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-007 Date Collected: 07.24.2020 10:30 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3133022 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	186	5.02	mg/kg	07.30.2020 01:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.29.2020 15:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.29.2020 15:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.29.2020 15:28	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.29.2020 15:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	07.29.2020 15:28	
o-Terphenyl	84-15-1	116	%	70-130	07.29.2020 15:28	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **A3-1**
Lab Sample Id: 668310-007

Matrix: Soil
Date Collected: 07.24.2020 10:30

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.31.2020 19:17	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.31.2020 19:17	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.31.2020 19:17	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.31.2020 19:17	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.31.2020 19:17	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	07.31.2020 19:17	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.31.2020 19:17	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	116	%	70-130	07.31.2020 19:17	
1,4-Difluorobenzene	540-36-3	104	%	70-130	07.31.2020 19:17	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **B1-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-008 Date Collected: 07.24.2020 10:35 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 16:30 Basis: Wet Weight
 Seq Number: 3133022 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.3	5.02	mg/kg	07.30.2020 08:34		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 15:49	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 15:49	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 15:49	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 15:49	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	07.29.2020 15:49	
o-Terphenyl	84-15-1	119	%	70-130	07.29.2020 15:49	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **B1-1**
Lab Sample Id: 668310-008

Matrix: Soil
Date Collected: 07.24.2020 10:35

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.31.2020 19:37	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.31.2020 19:37	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.31.2020 19:37	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.31.2020 19:37	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.31.2020 19:37	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	07.31.2020 19:37	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.31.2020 19:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	120	%	70-130	07.31.2020 19:37	
1,4-Difluorobenzene	540-36-3	97	%	70-130	07.31.2020 19:37	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **B2-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-009 Date Collected: 07.24.2020 10:40 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	8.59	5.03	mg/kg	07.30.2020 10:07		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.29.2020 16:11	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.29.2020 16:11	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.29.2020 16:11	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.29.2020 16:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	07.29.2020 16:11	
o-Terphenyl	84-15-1	127	%	70-130	07.29.2020 16:11	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **B2-1**
Lab Sample Id: 668310-009

Matrix: Soil
Date Collected: 07.24.2020 10:40

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	07.31.2020 19:58	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	07.31.2020 19:58	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	07.31.2020 19:58	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	07.31.2020 19:58	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	07.31.2020 19:58	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	07.31.2020 19:58	U	1
Total BTEX		<0.00201	0.00201	mg/kg	07.31.2020 19:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	126	%	70-130	07.31.2020 19:58	
1,4-Difluorobenzene	540-36-3	99	%	70-130	07.31.2020 19:58	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **B3-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-010 Date Collected: 07.24.2020 10:45 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	130	4.99	mg/kg	07.30.2020 10:23		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 16:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 16:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 16:32	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 16:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	07.29.2020 16:32	
o-Terphenyl	84-15-1	122	%	70-130	07.29.2020 16:32	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **B3-1**
Lab Sample Id: 668310-010

Matrix: Soil
Date Collected: 07.24.2020 10:45

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.31.2020 20:18	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.31.2020 20:18	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.31.2020 20:18	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	07.31.2020 20:18	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.31.2020 20:18	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	07.31.2020 20:18	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.31.2020 20:18	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	124	%	70-130	07.31.2020 20:18	
1,4-Difluorobenzene	540-36-3	100	%	70-130	07.31.2020 20:18	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **C1-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-011 Date Collected: 07.24.2020 10:50 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	7.68	4.98	mg/kg	07.30.2020 10:28		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 17:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 17:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 17:15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 17:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	121	%	70-130	07.29.2020 17:15	
o-Terphenyl	84-15-1	126	%	70-130	07.29.2020 17:15	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: C1-1
Lab Sample Id: 668310-011

Matrix: Soil
Date Collected: 07.24.2020 10:50

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	07.31.2020 20:39	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	07.31.2020 20:39	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	07.31.2020 20:39	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	07.31.2020 20:39	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	07.31.2020 20:39	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	07.31.2020 20:39	U	1
Total BTEX		<0.00199	0.00199	mg/kg	07.31.2020 20:39	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	96	%	70-130	07.31.2020 20:39	
4-Bromofluorobenzene	460-00-4	129	%	70-130	07.31.2020 20:39	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: C2-1 Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-012 Date Collected: 07.24.2020 10:55 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	9.40	4.97	mg/kg	07.30.2020 10:33		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.29.2020 17:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.29.2020 17:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.29.2020 17:37	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.29.2020 17:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	123	%	70-130	07.29.2020 17:37	
o-Terphenyl	84-15-1	129	%	70-130	07.29.2020 17:37	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: C2-1
Lab Sample Id: 668310-012

Matrix: Soil
Date Collected: 07.24.2020 10:55

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	07.31.2020 22:01	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	07.31.2020 22:01	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	07.31.2020 22:01	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	07.31.2020 22:01	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	07.31.2020 22:01	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	07.31.2020 22:01	U	1
Total BTEX		<0.00200	0.00200	mg/kg	07.31.2020 22:01	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	118	%	70-130	07.31.2020 22:01		
1,4-Difluorobenzene	540-36-3	92	%	70-130	07.31.2020 22:01		



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **D1-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-013 Date Collected: 07.24.2020 11:00 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	137	4.97	mg/kg	07.30.2020 10:38		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.29.2020 17:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.29.2020 17:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.29.2020 17:58	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.29.2020 17:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	118	%	70-130	07.29.2020 17:58	
o-Terphenyl	84-15-1	125	%	70-130	07.29.2020 17:58	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **D1-1**
Lab Sample Id: 668310-013

Matrix: Soil
Date Collected: 07.24.2020 11:00

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133261

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 08:30

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	07.31.2020 22:22	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	07.31.2020 22:22	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	07.31.2020 22:22	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	07.31.2020 22:22	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	07.31.2020 22:22	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	07.31.2020 22:22	U	1
Total BTEX		<0.00198	0.00198	mg/kg	07.31.2020 22:22	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	122	%	70-130	07.31.2020 22:22	
1,4-Difluorobenzene	540-36-3	96	%	70-130	07.31.2020 22:22	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **D2-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-014 Date Collected: 07.24.2020 11:05 Sample Depth: 2 - 3
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	16.5	5.02	mg/kg	07.30.2020 12:34		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 18:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 18:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 18:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 18:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	07.29.2020 18:20	
o-Terphenyl	84-15-1	129	%	70-130	07.29.2020 18:20	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **D2-1**
Lab Sample Id: 668310-014

Matrix: Soil
Date Collected: 07.24.2020 11:05

Date Received: 07.27.2020 16:35
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Prep Method: SW5035A

Tech: KTL

% Moisture:

Analyst: KTL

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

Seq Number: 3133262

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.01.2020 01:45	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.01.2020 01:45	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.01.2020 01:45	U	1
m,p-Xylenes	179601-23-1	<0.00404	0.00404	mg/kg	08.01.2020 01:45	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.01.2020 01:45	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	08.01.2020 01:45	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.01.2020 01:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	113	%	70-130	08.01.2020 01:45	
1,4-Difluorobenzene	540-36-3	101	%	70-130	08.01.2020 01:45	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **E1-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-015 Date Collected: 07.24.2020 11:10 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.5	5.01	mg/kg	07.30.2020 12:40		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 18:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 18:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 18:41	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 18:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	120	%	70-130	07.29.2020 18:41	
o-Terphenyl	84-15-1	127	%	70-130	07.29.2020 18:41	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **E1-1**
Lab Sample Id: 668310-015

Matrix: Soil
Date Collected: 07.24.2020 11:10

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.01.2020 02:06	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.01.2020 02:06	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.01.2020 02:06	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.01.2020 02:06	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.01.2020 02:06	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	08.01.2020 02:06	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.01.2020 02:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	98	%	70-130	08.01.2020 02:06		
4-Bromofluorobenzene	460-00-4	142	%	70-130	08.01.2020 02:06	**	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **E2-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-016 Date Collected: 07.24.2020 11:15 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	88.2	4.99	mg/kg	07.30.2020 11:05		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.29.2020 19:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.29.2020 19:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.29.2020 19:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.29.2020 19:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	07.29.2020 19:03	
o-Terphenyl	84-15-1	121	%	70-130	07.29.2020 19:03	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: E2-1
Lab Sample Id: 668310-016

Matrix: Soil
Date Collected: 07.24.2020 11:15

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.01.2020 02:26	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.01.2020 02:26	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.01.2020 02:26	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.01.2020 02:26	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.01.2020 02:26	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	08.01.2020 02:26	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.01.2020 02:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	101	%	70-130	08.01.2020 02:26		
4-Bromofluorobenzene	460-00-4	139	%	70-130	08.01.2020 02:26	**	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **E3-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-017 Date Collected: 07.24.2020 11:20 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.6	4.96	mg/kg	07.30.2020 11:10		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.29.2020 19:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.29.2020 19:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.29.2020 19:24	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.29.2020 19:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	114	%	70-130	07.29.2020 19:24	
o-Terphenyl	84-15-1	122	%	70-130	07.29.2020 19:24	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **E3-1**
Lab Sample Id: 668310-017

Matrix: Soil
Date Collected: 07.24.2020 11:20

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.01.2020 02:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.01.2020 02:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.01.2020 02:46	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.01.2020 02:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.01.2020 02:46	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	08.01.2020 02:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.01.2020 02:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	132	%	70-130	08.01.2020 02:46	**	
1,4-Difluorobenzene	540-36-3	97	%	70-130	08.01.2020 02:46		



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **F1-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-018 Date Collected: 07.24.2020 11:25 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	10.7	5.02	mg/kg	07.30.2020 12:45		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 19:46	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 19:46	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 19:46	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 19:46	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	113	%	70-130	07.29.2020 19:46	
o-Terphenyl	84-15-1	119	%	70-130	07.29.2020 19:46	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **F1-1**
Lab Sample Id: 668310-018

Matrix: Soil
Date Collected: 07.24.2020 11:25

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.01.2020 03:07	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.01.2020 03:07	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.01.2020 03:07	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.01.2020 03:07	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.01.2020 03:07	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	08.01.2020 03:07	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.01.2020 03:07	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	100	%	70-130	08.01.2020 03:07		
4-Bromofluorobenzene	460-00-4	134	%	70-130	08.01.2020 03:07	**	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **F2-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-019 Date Collected: 07.24.2020 11:30 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	111	50.3	mg/kg	07.30.2020 11:21		10

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 20:07	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 20:07	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 20:07	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 20:07	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	116	%	70-130	07.29.2020 20:07	
o-Terphenyl	84-15-1	119	%	70-130	07.29.2020 20:07	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **F2-1**
Lab Sample Id: 668310-019

Matrix: Soil
Date Collected: 07.24.2020 11:30

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.01.2020 03:27	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.01.2020 03:27	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.01.2020 03:27	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.01.2020 03:27	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.01.2020 03:27	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	08.01.2020 03:27	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.01.2020 03:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	99	%	70-130	08.01.2020 03:27		
4-Bromofluorobenzene	460-00-4	145	%	70-130	08.01.2020 03:27	**	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **F3-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-020 Date Collected: 07.24.2020 11:35 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	204	5.02	mg/kg	07.30.2020 11:36		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133038 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.29.2020 20:28	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.29.2020 20:28	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.29.2020 20:28	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.29.2020 20:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	122	%	70-130	07.29.2020 20:28	
o-Terphenyl	84-15-1	128	%	70-130	07.29.2020 20:28	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **F3-1**
Lab Sample Id: 668310-020

Matrix: Soil
Date Collected: 07.24.2020 11:35

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.01.2020 03:48	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.01.2020 03:48	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.01.2020 03:48	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.01.2020 03:48	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.01.2020 03:48	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	08.01.2020 03:48	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.01.2020 03:48	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	08.01.2020 03:48		
4-Bromofluorobenzene	460-00-4	136	%	70-130	08.01.2020 03:48	**	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **G1-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-021 Date Collected: 07.24.2020 11:40 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	35.9	5.01	mg/kg	07.30.2020 13:01		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133041 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.29.2020 16:32	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.29.2020 16:32	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.29.2020 16:32	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.29.2020 16:32	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	107	%	70-130	07.29.2020 16:32	
o-Terphenyl	84-15-1	102	%	70-130	07.29.2020 16:32	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **G1-1**
Lab Sample Id: 668310-021

Matrix: Soil
Date Collected: 07.24.2020 11:40

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.01.2020 04:08	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.01.2020 04:08	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.01.2020 04:08	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.01.2020 04:08	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.01.2020 04:08	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	08.01.2020 04:08	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.01.2020 04:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	143	%	70-130	08.01.2020 04:08	**	
1,4-Difluorobenzene	540-36-3	98	%	70-130	08.01.2020 04:08		



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **H1-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-022 Date Collected: 07.24.2020 11:45 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	18.7	4.96	mg/kg	07.30.2020 11:58		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133041 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 17:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 17:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 17:15	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 17:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	07.29.2020 17:15	
o-Terphenyl	84-15-1	98	%	70-130	07.29.2020 17:15	



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **H1-1**
Lab Sample Id: 668310-022

Matrix: Soil
Date Collected: 07.24.2020 11:45

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.01.2020 04:28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.01.2020 04:28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.01.2020 04:28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.01.2020 04:28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.01.2020 04:28	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	08.01.2020 04:28	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.01.2020 04:28	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	102	%	70-130	08.01.2020 04:28		
4-Bromofluorobenzene	460-00-4	125	%	70-130	08.01.2020 04:28		



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Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **H2-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-023 Date Collected: 07.24.2020 11:50 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	43.3	4.97	mg/kg	07.30.2020 12:03		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133041 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 17:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 17:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 17:37	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 17:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	07.29.2020 17:37	
o-Terphenyl	84-15-1	100	%	70-130	07.29.2020 17:37	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **H2-1**
Lab Sample Id: 668310-023

Matrix: Soil
Date Collected: 07.24.2020 11:50

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.01.2020 04:49	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.01.2020 04:49	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.01.2020 04:49	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.01.2020 04:49	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.01.2020 04:49	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	08.01.2020 04:49	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.01.2020 04:49	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	139	%	70-130	08.01.2020 04:49	**	
1,4-Difluorobenzene	540-36-3	96	%	70-130	08.01.2020 04:49		



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **I1-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-024 Date Collected: 07.24.2020 11:55 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	57.2	4.97	mg/kg	07.30.2020 12:08		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133041 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.29.2020 17:58	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.29.2020 17:58	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.29.2020 17:58	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.29.2020 17:58	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	07.29.2020 17:58	
o-Terphenyl	84-15-1	100	%	70-130	07.29.2020 17:58	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **I1-1**
Lab Sample Id: 668310-024

Matrix: Soil
Date Collected: 07.24.2020 11:55

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.01.2020 06:11	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.01.2020 06:11	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.01.2020 06:11	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.01.2020 06:11	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.01.2020 06:11	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	08.01.2020 06:11	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.01.2020 06:11	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	92	%	70-130	08.01.2020 06:11	
4-Bromofluorobenzene	460-00-4	123	%	70-130	08.01.2020 06:11	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **K2-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-025 Date Collected: 07.24.2020 12:00 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	207	5.04	mg/kg	07.30.2020 12:13		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133041 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	07.29.2020 18:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	07.29.2020 18:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	07.29.2020 18:20	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	07.29.2020 18:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	07.29.2020 18:20	
o-Terphenyl	84-15-1	97	%	70-130	07.29.2020 18:20	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **K2-1**
Lab Sample Id: 668310-025

Matrix: Soil
Date Collected: 07.24.2020 12:00

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.01.2020 06:31	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.01.2020 06:31	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.01.2020 06:31	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.01.2020 06:31	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.01.2020 06:31	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	08.01.2020 06:31	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.01.2020 06:31	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	139	%	70-130	08.01.2020 06:31	**	
1,4-Difluorobenzene	540-36-3	97	%	70-130	08.01.2020 06:31		



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: L2-1	Matrix: Soil	Date Received: 07.27.2020 16:35
Lab Sample Id: 668310-026	Date Collected: 07.24.2020 12:05	Sample Depth: 4 - 5
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: SPC		% Moisture:
Analyst: SPC	Date Prep: 07.29.2020 17:20	Basis: Wet Weight
Seq Number: 3133116		SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	226	5.02	mg/kg	07.30.2020 12:19		1

Analytical Method: TPH by SW8015 Mod		Prep Method: SW8015P
Tech: DVM		% Moisture:
Analyst: ARM	Date Prep: 07.29.2020 12:00	Basis: Wet Weight
Seq Number: 3133041		SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.29.2020 18:41	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.29.2020 18:41	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.29.2020 18:41	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.29.2020 18:41	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	102	%	70-130	07.29.2020 18:41	
o-Terphenyl	84-15-1	97	%	70-130	07.29.2020 18:41	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **L2-1**
Lab Sample Id: 668310-026

Matrix: Soil
Date Collected: 07.24.2020 12:05

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.01.2020 06:52	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.01.2020 06:52	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.01.2020 06:52	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.01.2020 06:52	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.01.2020 06:52	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	08.01.2020 06:52	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.01.2020 06:52	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	102	%	70-130	08.01.2020 06:52	
4-Bromofluorobenzene	460-00-4	128	%	70-130	08.01.2020 06:52	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **N2-1** Matrix: Soil Date Received: 07.27.2020 16:35
 Lab Sample Id: 668310-027 Date Collected: 07.24.2020 12:10 Sample Depth: 4 - 5
 Analytical Method: Chloride by EPA 300 Prep Method: E300P
 Tech: SPC % Moisture:
 Analyst: SPC Date Prep: 07.29.2020 17:20 Basis: Wet Weight
 Seq Number: 3133116 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	128	5.05	mg/kg	07.30.2020 12:24		1

Analytical Method: TPH by SW8015 Mod Prep Method: SW8015P
 Tech: DVM % Moisture:
 Analyst: ARM Date Prep: 07.29.2020 12:00 Basis: Wet Weight
 Seq Number: 3133041 SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	07.29.2020 19:03	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	07.29.2020 19:03	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	07.29.2020 19:03	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	07.29.2020 19:03	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	106	%	70-130	07.29.2020 19:03	
o-Terphenyl	84-15-1	100	%	70-130	07.29.2020 19:03	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **N2-1**
Lab Sample Id: 668310-027

Matrix: Soil
Date Collected: 07.24.2020 12:10

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.01.2020 07:12	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.01.2020 07:12	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.01.2020 07:12	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.01.2020 07:12	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.01.2020 07:12	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	08.01.2020 07:12	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.01.2020 07:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	97	%	70-130	08.01.2020 07:12		
4-Bromofluorobenzene	460-00-4	140	%	70-130	08.01.2020 07:12	**	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: N3-1	Matrix: Soil	Date Received: 07.27.2020 16:35
Lab Sample Id: 668310-028	Date Collected: 07.24.2020 12:15	Sample Depth: 4 - 5
Analytical Method: Chloride by EPA 300		Prep Method: E300P
Tech: SPC		% Moisture:
Analyst: SPC	Date Prep: 07.29.2020 17:20	Basis: Wet Weight
Seq Number: 3133116		SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	212	4.98	mg/kg	07.30.2020 12:29		1

Analytical Method: TPH by SW8015 Mod		Prep Method: SW8015P
Tech: DVM		% Moisture:
Analyst: ARM	Date Prep: 07.29.2020 12:00	Basis: Wet Weight
Seq Number: 3133041		SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	07.29.2020 19:24	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	07.29.2020 19:24	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	07.29.2020 19:24	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	07.29.2020 19:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	07.29.2020 19:24	
o-Terphenyl	84-15-1	100	%	70-130	07.29.2020 19:24	



Certificate of Analytical Results 668310

Terracon-Lubbock, Lubbock, TX

Huber Fed #010H

Sample Id: **N3-1**
Lab Sample Id: 668310-028

Matrix: Soil
Date Collected: 07.24.2020 12:15

Date Received: 07.27.2020 16:35
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3133262

Prep Method: SW5035A

% Moisture:

Date Prep: 07.31.2020 17:15

Basis: Wet Weight

SUB: T104704400-20-20

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.01.2020 07:33	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.01.2020 07:33	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.01.2020 07:33	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.01.2020 07:33	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.01.2020 07:33	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	08.01.2020 07:33	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.01.2020 07:33	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	139	%	70-130	08.01.2020 07:33	**	
1,4-Difluorobenzene	540-36-3	97	%	70-130	08.01.2020 07:33		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Terracon-Lubbock

Huber Fed #010H

Analytical Method: Chloride by EPA 300

Seq Number: 3133022

MB Sample Id: 7708324-1-BLK

Matrix: Solid

LCS Sample Id: 7708324-1-BKS

Prep Method: E300P

Date Prep: 07.29.2020

LCSD Sample Id: 7708324-1-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	252	101	90-110	0	20	mg/kg	07.29.2020 22:45	

Analytical Method: Chloride by EPA 300

Seq Number: 3133116

MB Sample Id: 7708330-1-BLK

Matrix: Solid

LCS Sample Id: 7708330-1-BKS

Prep Method: E300P

Date Prep: 07.29.2020

LCSD Sample Id: 7708330-1-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	271	108	271	108	90-110	0	20	mg/kg	07.30.2020 09:56	

Analytical Method: Chloride by EPA 300

Seq Number: 3133022

Parent Sample Id: 668308-004

Matrix: Soil

MS Sample Id: 668308-004 S

Prep Method: E300P

Date Prep: 07.29.2020

MSD Sample Id: 668308-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	210	249	459	100	458	100	90-110	0	20	mg/kg	07.29.2020 23:01	

Analytical Method: Chloride by EPA 300

Seq Number: 3133022

Parent Sample Id: 668308-008

Matrix: Soil

MS Sample Id: 668308-008 S

Prep Method: E300P

Date Prep: 07.29.2020

MSD Sample Id: 668308-008 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	108	250	366	103	367	104	90-110	0	20	mg/kg	07.30.2020 00:15	

Analytical Method: Chloride by EPA 300

Seq Number: 3133116

Parent Sample Id: 668310-009

Matrix: Soil

MS Sample Id: 668310-009 S

Prep Method: E300P

Date Prep: 07.29.2020

MSD Sample Id: 668310-009 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	8.59	252	282	108	283	109	90-110	0	20	mg/kg	07.30.2020 10:12	

Analytical Method: Chloride by EPA 300

Seq Number: 3133116

Parent Sample Id: 668310-019

Matrix: Soil

MS Sample Id: 668310-019 S

Prep Method: E300P

Date Prep: 07.29.2020

MSD Sample Id: 668310-019 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	111	2520	2830	108	2850	109	90-110	1	20	mg/kg	07.30.2020 11:26	

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

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

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

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



Terracon-Lubbock

Huber Fed #010H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3133038

MB Sample Id: 7708349-1-BLK

Matrix: Solid

LCS Sample Id: 7708349-1-BKS

Prep Method: SW8015P

Date Prep: 07.29.2020

LCSD Sample Id: 7708349-1-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	920	92	907	91	70-130	1	20	mg/kg	07.29.2020 11:54	
Diesel Range Organics (DRO)	<50.0	1000	988	99	954	95	70-130	4	20	mg/kg	07.29.2020 11:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	100		109		104		70-130	%	07.29.2020 11:54
o-Terphenyl	107		112		109		70-130	%	07.29.2020 11:54

Analytical Method: TPH by SW8015 Mod

Seq Number: 3133041

MB Sample Id: 7708350-1-BLK

Matrix: Solid

LCS Sample Id: 7708350-1-BKS

Prep Method: SW8015P

Date Prep: 07.29.2020

LCSD Sample Id: 7708350-1-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	876	88	875	88	70-130	0	20	mg/kg	07.29.2020 11:54	
Diesel Range Organics (DRO)	<50.0	1000	919	92	849	85	70-130	8	20	mg/kg	07.29.2020 11:54	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	96		106		108		70-130	%	07.29.2020 11:54
o-Terphenyl	94		103		104		70-130	%	07.29.2020 11:54

Analytical Method: TPH by SW8015 Mod

Seq Number: 3133038

Matrix: Solid
MB Sample Id: 7708349-1-BLK

Prep Method: SW8015P

Date Prep: 07.29.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.29.2020 11:33	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3133041

Matrix: Solid
MB Sample Id: 7708350-1-BLK

Prep Method: SW8015P

Date Prep: 07.29.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	07.29.2020 11:33	

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

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

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

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



Terracon-Lubbock

Huber Fed #010H

Analytical Method: TPH by SW8015 Mod

Seq Number: 3133038

Parent Sample Id: 668310-001

Matrix: Soil

MS Sample Id: 668310-001 S

Prep Method: SW8015P

Date Prep: 07.29.2020

MSD Sample Id: 668310-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	957	96	901	90	70-130	6	20	mg/kg	07.29.2020 12:57	
Diesel Range Organics (DRO)	<49.9	998	963	96	964	97	70-130	0	20	mg/kg	07.29.2020 12:57	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	113		111		70-130	%	07.29.2020 12:57
o-Terphenyl	111		114		70-130	%	07.29.2020 12:57

Analytical Method: TPH by SW8015 Mod

Seq Number: 3133041

Parent Sample Id: 668308-001

Matrix: Soil

MS Sample Id: 668308-001 S

Prep Method: SW8015P

Date Prep: 07.29.2020

MSD Sample Id: 668308-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	998	912	91	843	85	70-130	8	20	mg/kg	07.29.2020 12:57	
Diesel Range Organics (DRO)	<49.9	998	899	90	825	83	70-130	9	20	mg/kg	07.29.2020 12:57	

Surrogate

	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	99		97		70-130	%	07.29.2020 12:57
o-Terphenyl	92		89		70-130	%	07.29.2020 12:57

Analytical Method: BTEX by EPA 8021B

Seq Number: 3133261

MB Sample Id: 7708539-1-BLK

Matrix: Solid

LCS Sample Id: 7708539-1-BKS

Prep Method: SW5035A

Date Prep: 07.31.2020

LCSD Sample Id: 7708539-1-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	0.114	114	0.0979	98	70-130	15	35	mg/kg	07.31.2020 11:27	
Toluene	<0.00200	0.100	0.110	110	0.0943	94	70-130	15	35	mg/kg	07.31.2020 11:27	
Ethylbenzene	<0.00200	0.100	0.110	110	0.0932	93	70-130	17	35	mg/kg	07.31.2020 11:27	
m,p-Xylenes	<0.00400	0.200	0.216	108	0.184	92	70-130	16	35	mg/kg	07.31.2020 11:27	
o-Xylene	<0.00200	0.100	0.106	106	0.0901	90	70-130	16	35	mg/kg	07.31.2020 11:27	

Surrogate

	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		93		92		70-130	%	07.31.2020 11:27
4-Bromofluorobenzene	104		105		98		70-130	%	07.31.2020 11:27

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



Terracon-Lubbock

Huber Fed #010H

Analytical Method: BTEX by EPA 8021B

Seq Number: 3133262

Matrix: Solid

Prep Method: SW5035A

Date Prep: 07.31.2020

MB Sample Id: 7708540-1-BLK

LCS Sample Id: 7708540-1-BKS

LCSD Sample Id: 7708540-1-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	0.106	106	0.100	100	70-130	6	35	mg/kg	07.31.2020 23:23	
Toluene	<0.00200	0.100	0.109	109	0.103	103	70-130	6	35	mg/kg	07.31.2020 23:23	
Ethylbenzene	<0.00200	0.100	0.110	110	0.103	103	70-130	7	35	mg/kg	07.31.2020 23:23	
m,p-Xylenes	<0.00400	0.200	0.221	111	0.206	103	70-130	7	35	mg/kg	07.31.2020 23:23	
o-Xylene	<0.00200	0.100	0.110	110	0.102	102	70-130	8	35	mg/kg	07.31.2020 23:23	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	94		91		90		70-130	%	07.31.2020 23:23
4-Bromofluorobenzene	121		117		111		70-130	%	07.31.2020 23:23

Analytical Method: BTEX by EPA 8021B

Seq Number: 3133261

Matrix: Soil

Prep Method: SW5035A

Date Prep: 07.31.2020

Parent Sample Id: 668310-001

MS Sample Id: 668310-001 S

MSD Sample Id: 668310-001 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	0.0920	93	0.0757	76	70-130	19	35	mg/kg	07.31.2020 12:08	
Toluene	<0.00198	0.0992	0.0809	82	0.0789	79	70-130	3	35	mg/kg	07.31.2020 12:08	
Ethylbenzene	<0.00198	0.0992	0.0754	76	0.0773	77	70-130	2	35	mg/kg	07.31.2020 12:08	
m,p-Xylenes	<0.00397	0.198	0.146	74	0.155	78	70-130	6	35	mg/kg	07.31.2020 12:08	
o-Xylene	<0.00198	0.0992	0.0716	72	0.0772	77	70-130	8	35	mg/kg	07.31.2020 12:08	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	97		92		70-130	%	07.31.2020 12:08
4-Bromofluorobenzene	101		109		70-130	%	07.31.2020 12:08

Analytical Method: BTEX by EPA 8021B

Seq Number: 3133262

Matrix: Soil

Prep Method: SW5035A

Date Prep: 07.31.2020

Parent Sample Id: 668310-014

MS Sample Id: 668310-014 S

MSD Sample Id: 668310-014 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00202	0.101	0.0877	87	0.0767	77	70-130	13	35	mg/kg	08.01.2020 00:04	
Toluene	<0.00202	0.101	0.0880	87	0.0815	82	70-130	8	35	mg/kg	08.01.2020 00:04	
Ethylbenzene	<0.00202	0.101	0.0870	86	0.0816	82	70-130	6	35	mg/kg	08.01.2020 00:04	
m,p-Xylenes	<0.00404	0.202	0.172	85	0.164	82	70-130	5	35	mg/kg	08.01.2020 00:04	
o-Xylene	<0.00202	0.101	0.0830	82	0.0792	79	70-130	5	35	mg/kg	08.01.2020 00:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	92		91		70-130	%	08.01.2020 00:04
4-Bromofluorobenzene	112		119		70-130	%	08.01.2020 00:04

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

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

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

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

668310

Terracon

CHAIN OF CUSTODY RECORD

LAB USE ONLY
DUE DATE: _____
TEMP OF COOLER WHEN RECEIVED (°C): 1.0/-1.13
Page 1 of 2

ANALYSIS REQUESTED
Chloride (EPA Method 300) ☒ TPH Extended 8015 ☒ BTEX (EPA Method 8021B) ☒ Hold ☒ Lab Sample ID: 668310-001
-002
-003
-004
-005
-006
-007
-008
-009
-010
-011
-012
-013
-014
-015
-016
-017
-018
-019
-020

Laboratory: Xenco
Address: 6701 Aberdeen
Lubbock, Texas 79424
Phone: J. Guesnier 806-544-9276
Contact: SRS #: _____
Sampler's Name: J. Guesnier
Sampler's Signature: _____

Office Location: Lubbock

Project Number: AR207114
Project Name: Huber Fed #010H

Matrix	Date	Time	Comp	Grab	Identifying Marks of Sample(s)	No. Type of Containers			5035 Kit
						Start Depth	End Depth	4 oz Glass	
S	7/24/2020	10:00	X		EW-1	2	3	X	
S	7/24/2020	10:05	X		NW-1	2	3	X	
S	7/24/2020	10:10	X		WW-1	2	3	X	
S	7/24/2020	10:15	X		SW-1	1	2	X	
S	7/24/2020	10:20	X		A1-1	2	3	X	
S	7/24/2020	10:25	X		A2-1	2	3	X	
S	7/24/2020	10:30	X		A3-1	2	3	X	
S	7/24/2020	10:35	X		B1-1	2	3	X	
S	7/24/2020	10:40	X		B2-1	2	3	X	
S	7/24/2020	10:45	X		B3-1	2	3	X	
S	7/24/2020	10:50	X		C1-1	2	3	X	
S	7/24/2020	10:55	X		C2-1	2	3	X	
S	7/24/2020	11:00	X		D1-1	2	3	X	
S	7/24/2020	11:05	X		D2-1	2	3	X	
S	7/24/2020	11:10	X		E1-1	4	5	X	
S	7/24/2020	11:15	X		E2-1	4	5	X	
S	7/24/2020	11:20	X		E3-1	4	5	X	
S	7/24/2020	11:25	X		F1-1	4	5	X	
S	7/24/2020	11:30	X		F2-1	4	5	X	
S	7/24/2020	11:35	X		F3-1	4	5	X	

TURNAROUND TIME
Relinquished by (Signature): _____ Date: 7-27-20 Time: 4:35
Relinquished by (Signature): _____ Date: 7/27/20 Time: 16:35
Relinquished by (Signature): _____ Date: _____ Time: _____
Relinquished by (Signature): _____ Date: _____ Time: _____
Relinquished by (Signature): _____ Date: _____ Time: _____

RRRP Laboratory Review Checklist
☒ 24-Hour Rush
☐ 48-Hour Rush
☐ Normal
Date: 7-27-20 Time: 4:35
Received by (Signature): _____ Date: 7/27/20 Time: 16:35
Received by (Signature): _____ Date: _____ Time: _____
Received by (Signature): _____ Date: _____ Time: _____
Received by (Signature): _____ Date: _____ Time: _____

NOTES: Client: Spur Energy Partners
e-mail results to: bryant.mchraier@terracon.com
erin.loyd@terracon.com
jguesnier@terracon.com

Matrix: WW-Wastewater VOA - 40 ml vial
Container: AHS - Amber Glass 1L
250 ml - Glass wide mouth
S - Soil
L - Liquid
A - Air Bag
C - Charcoal tube
SL - Sludge
PFO - Plastic or other

Lubbock Office ■ 5827 50th Street, Suite 1 ■ Lubbock, Texas 79424 ■ 806-300-0140
Responsive ■ Resourceful ■ Reliable

Final 1.000

Inter-Office Shipment

IOS Number : **67783**

Date/Time: 07.28.2020

Created by: Michael J Turner

Please send report to: Jessica Kramer

Lab# From: **Lubbock**

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: **Midland**

Air Bill No.: 771116192074

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
668310-001	S	EW-1	07.24.2020 10:00	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-001	S	EW-1	07.24.2020 10:00	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-001	S	EW-1	07.24.2020 10:00	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-002	S	NW-1	07.24.2020 10:05	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-002	S	NW-1	07.24.2020 10:05	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-002	S	NW-1	07.24.2020 10:05	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-003	S	WW-1	07.24.2020 10:10	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-003	S	WW-1	07.24.2020 10:10	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-003	S	WW-1	07.24.2020 10:10	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-004	S	SW-1	07.24.2020 10:15	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-004	S	SW-1	07.24.2020 10:15	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-004	S	SW-1	07.24.2020 10:15	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-005	S	A1-1	07.24.2020 10:20	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-005	S	A1-1	07.24.2020 10:20	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-005	S	A1-1	07.24.2020 10:20	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-006	S	A2-1	07.24.2020 10:25	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-006	S	A2-1	07.24.2020 10:25	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-006	S	A2-1	07.24.2020 10:25	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-007	S	A3-1	07.24.2020 10:30	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-007	S	A3-1	07.24.2020 10:30	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-007	S	A3-1	07.24.2020 10:30	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-008	S	B1-1	07.24.2020 10:35	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-008	S	B1-1	07.24.2020 10:35	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-008	S	B1-1	07.24.2020 10:35	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-009	S	B2-1	07.24.2020 10:40	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	

Inter-Office Shipment

IOS Number : **67783**

Date/Time: 07.28.2020

Created by: Michael J Turner

Please send report to: Jessica Kramer

Lab# From: **Lubbock**

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: **Midland**

Air Bill No.: 771116192074

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
668310-009	S	B2-1	07.24.2020 10:40	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-009	S	B2-1	07.24.2020 10:40	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-010	S	B3-1	07.24.2020 10:45	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-010	S	B3-1	07.24.2020 10:45	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-010	S	B3-1	07.24.2020 10:45	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-011	S	C1-1	07.24.2020 10:50	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-011	S	C1-1	07.24.2020 10:50	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-011	S	C1-1	07.24.2020 10:50	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-012	S	C2-1	07.24.2020 10:55	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-012	S	C2-1	07.24.2020 10:55	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-012	S	C2-1	07.24.2020 10:55	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-013	S	D1-1	07.24.2020 11:00	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-013	S	D1-1	07.24.2020 11:00	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-013	S	D1-1	07.24.2020 11:00	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-014	S	D2-1	07.24.2020 11:05	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-014	S	D2-1	07.24.2020 11:05	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-014	S	D2-1	07.24.2020 11:05	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-015	S	E1-1	07.24.2020 11:10	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-015	S	E1-1	07.24.2020 11:10	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-015	S	E1-1	07.24.2020 11:10	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-016	S	E2-1	07.24.2020 11:15	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-016	S	E2-1	07.24.2020 11:15	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-016	S	E2-1	07.24.2020 11:15	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	
668310-017	S	E3-1	07.24.2020 11:20	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-017	S	E3-1	07.24.2020 11:20	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C35	

Inter Office Shipment or Sample Comments:

Inter-Office Shipment

IOS Number : **67783**

Date/Time: 07.28.2020

Created by: Michael J Turner

Please send report to: Jessica Kramer

Lab# From: **Lubbock**

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: **Midland**

Air Bill No.: 771116192074

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
668310-017	S	E3-1	07.24.2020 11:20	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-018	S	F1-1	07.24.2020 11:25	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C3	
668310-018	S	F1-1	07.24.2020 11:25	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-018	S	F1-1	07.24.2020 11:25	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-019	S	F2-1	07.24.2020 11:30	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-019	S	F2-1	07.24.2020 11:30	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C3	
668310-019	S	F2-1	07.24.2020 11:30	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-020	S	F3-1	07.24.2020 11:35	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C3	
668310-020	S	F3-1	07.24.2020 11:35	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-020	S	F3-1	07.24.2020 11:35	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-021	S	G1-1	07.24.2020 11:40	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-021	S	G1-1	07.24.2020 11:40	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-021	S	G1-1	07.24.2020 11:40	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C3	
668310-022	S	H1-1	07.24.2020 11:45	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C3	
668310-022	S	H1-1	07.24.2020 11:45	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-022	S	H1-1	07.24.2020 11:45	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-023	S	H2-1	07.24.2020 11:50	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-023	S	H2-1	07.24.2020 11:50	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-023	S	H2-1	07.24.2020 11:50	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C3	
668310-024	S	I1-1	07.24.2020 11:55	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-024	S	I1-1	07.24.2020 11:55	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-024	S	I1-1	07.24.2020 11:55	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C3	
668310-025	S	K2-1	07.24.2020 12:00	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-025	S	K2-1	07.24.2020 12:00	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-025	S	K2-1	07.24.2020 12:00	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C3	

Inter Office Shipment or Sample Comments:

Relinquished By:

Received By:

Released to Imaging: 4/29/2021 8:22:34 AM

Inter-Office Shipment

IOS Number : **67783**

Date/Time: 07.28.2020

Created by: Michael J Turner

Please send report to: Jessica Kramer

Lab# From: **Lubbock**

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: **Midland**

Air Bill No.: 771116192074

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
668310-026	S	L2-1	07.24.2020 12:05	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-026	S	L2-1	07.24.2020 12:05	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-026	S	L2-1	07.24.2020 12:05	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C3	
668310-027	S	N2-1	07.24.2020 12:10	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-027	S	N2-1	07.24.2020 12:10	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C3	
668310-027	S	N2-1	07.24.2020 12:10	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-028	S	N3-1	07.24.2020 12:15	SW8021B	BTEX by EPA 8021B	07.31.2020	08.07.2020	JKR	BR4FBZ BZ BZME EBZ	
668310-028	S	N3-1	07.24.2020 12:15	E300_CL	Chloride by EPA 300	07.31.2020	08.21.2020	JKR	CL	
668310-028	S	N3-1	07.24.2020 12:15	SW8015MOD_NM	TPH by SW8015 Mod	07.31.2020	08.07.2020	JKR	PHCC10C28 PHCC28C3	

Inter Office Shipment or Sample Comments:

Date Relinquished:



Michael J Turner

07.28.2020

Date Received:



Brianna Teel

07.29.2020

Cooler Temperature: 0.1



Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 67783

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sent By: Michael J Turner

Date Sent: 07.28.2020 10.52 AM

Received By: Brianna Teel

Date Received: 07.29.2020 10.15 AM

Sample Receipt Checklist

Comments

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

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Brianna Teel

Date: 07.29.2020

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Terracon-Lubbock

Date/ Time Received: 07.27.2020 04.35.00 PM

Work Order #: 668310

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-4

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)?	Yes Xenco Midland
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Michael J Turner

Date: 07.27.2020

Checklist reviewed by:



Jessica Kramer

Date: 07.28.2020

Certificate of Analysis Summary 669791



Terracon-Lubbock, Lubbock, TX

Project Name: Huber Federal 10H Water Line

Project Id: AR207114
Contact: Joseph Guesnier
Project Location:

Date Received in Lab: Wed 08.12.2020 09:26
Report Date: 08.14.2020 15:08
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669791-001	669791-002	669791-003	669791-004	669791-005	669791-006
	<i>Field Id:</i>	I2-(4-5)	L3-(4-5)	M3-(4-5)	K3-(4-5)	G3-(4-5)	J2-(4-5)
	<i>Depth:</i>	4-5	4-5	4-5	4-5	4-5	4-5
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.11.2020 13:00	08.11.2020 13:02	08.11.2020 13:04	08.11.2020 13:06	08.11.2020 13:08	08.11.2020 13:10
BTEX by EPA 8021B SUB: T104704400-20-21	<i>Extracted:</i>	08.13.2020 16:00	08.13.2020 16:00	08.13.2020 16:00	08.13.2020 16:00	08.13.2020 16:00	08.13.2020 16:00
	<i>Analyzed:</i>	08.13.2020 23:24	08.13.2020 23:45	08.14.2020 00:05	08.14.2020 00:26	08.14.2020 00:46	08.14.2020 01:06
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Toluene		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Ethylbenzene		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
m,p-Xylenes		<0.00396 0.00396	<0.00398 0.00398	<0.00403 0.00403	<0.00399 0.00399	<0.00400 0.00400	<0.00397 0.00397
o-Xylene		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Xylenes, Total		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Total BTEX		<0.00198 0.00198	<0.00199 0.00199	<0.00202 0.00202	<0.00200 0.00200	<0.00200 0.00200	<0.00198 0.00198
Chloride by EPA 300 SUB: T104704400-20-21	<i>Extracted:</i>	08.13.2020 10:45	08.13.2020 10:45	08.13.2020 10:45	08.13.2020 10:45	08.13.2020 10:45	08.13.2020 10:45
	<i>Analyzed:</i>	08.13.2020 12:23	08.13.2020 12:29	08.13.2020 12:34	08.13.2020 12:39	08.13.2020 12:55	08.13.2020 13:00
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		418 49.7	148 25.0	93.1 49.5	55.7 X 24.9	95.4 49.5	91.2 50.4
TPH by SW8015 Mod SUB: T104704400-20-21	<i>Extracted:</i>	08.13.2020 12:00	08.13.2020 12:00	08.13.2020 12:00	08.13.2020 12:00	08.13.2020 12:00	08.13.2020 12:00
	<i>Analyzed:</i>	08.13.2020 12:43	08.13.2020 13:48	08.13.2020 14:09	08.13.2020 14:31	08.13.2020 14:53	08.13.2020 15:15
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Diesel Range Organics (DRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Motor Oil Range Hydrocarbons (MRO)		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9
Total TPH		<50.0 50.0	<50.0 50.0	<50.0 50.0	<49.9 49.9	<50.0 50.0	<49.9 49.9

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 669791



Terracon-Lubbock, Lubbock, TX

Project Name: Huber Federal 10H Water Line

Project Id: AR207114
Contact: Joseph Guesnier
Project Location:

Date Received in Lab: Wed 08.12.2020 09:26
Report Date: 08.14.2020 15:08
Project Manager: Jessica Kramer

<i>Analysis Requested</i>	<i>Lab Id:</i>	669791-007	669791-008	669791-009	669791-010	669791-011	669791-012
	<i>Field Id:</i>	J3-(4-5)	G2-(4-5)	M2-(4-5)	I3-(4-5)	H3-(4-5)	C3-(2-3)
	<i>Depth:</i>	4-5	4-5	4-5	4-5	4-5	2-3
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	08.11.2020 13:12	08.11.2020 13:14	08.11.2020 13:16	08.11.2020 13:18	08.11.2020 13:20	08.11.2020 13:22
BTEX by EPA 8021B SUB: T104704400-20-21	<i>Extracted:</i>	08.13.2020 16:00	08.13.2020 16:00	08.13.2020 16:00	08.13.2020 16:00	08.13.2020 16:00	08.13.2020 16:00
	<i>Analyzed:</i>	08.14.2020 01:27	08.14.2020 01:47	08.14.2020 02:08	08.14.2020 02:28	08.14.2020 03:51	08.14.2020 04:12
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Benzene		<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Toluene		<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Ethylbenzene		<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
m,p-Xylenes		<0.00397 0.00397	<0.00398 0.00398	<0.00396 0.00396	<0.00398 0.00398	<0.00398 0.00398	<0.00402 0.00402
o-Xylene		<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Xylenes, Total		<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Total BTEX		<0.00198 0.00198	<0.00199 0.00199	<0.00198 0.00198	<0.00199 0.00199	<0.00199 0.00199	<0.00201 0.00201
Chloride by EPA 300 SUB: T104704400-20-21	<i>Extracted:</i>	08.13.2020 10:45	08.13.2020 10:45	08.13.2020 10:45	08.13.2020 10:45	08.13.2020 10:45	08.13.2020 10:45
	<i>Analyzed:</i>	08.13.2020 13:16	08.13.2020 13:21	08.13.2020 13:27	08.13.2020 13:32	08.13.2020 13:37	08.13.2020 13:42
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		86.6 49.9	283 50.2	240 49.6	184 49.8	91.0 50.3	32.4 5.00
TPH by SW8015 Mod SUB: T104704400-20-21	<i>Extracted:</i>	08.13.2020 12:00	08.13.2020 12:00	08.13.2020 12:00	08.13.2020 12:00	08.13.2020 12:00	08.13.2020 12:00
	<i>Analyzed:</i>	08.13.2020 15:37	08.13.2020 15:59	08.13.2020 16:20	08.13.2020 16:42	08.13.2020 17:26	08.13.2020 17:48
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8	<50.0 50.0	<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0
Diesel Range Organics (DRO)		<49.8 49.8	<50.0 50.0	<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0
Motor Oil Range Hydrocarbons (MRO)		<49.8 49.8	<50.0 50.0	<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0
Total TPH		<49.8 49.8	<50.0 50.0	<49.8 49.8	<49.9 49.9	<50.0 50.0	<50.0 50.0

BRL - Below Reporting Limit

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

Certificate of Analysis Summary 669791

Terracon-Lubbock, Lubbock, TX

Project Name: Huber Federal 10H Water Line

Project Id: AR207114
 Contact: Joseph Guesnier
 Project Location:

Date Received in Lab: Wed 08.12.2020 09:26
 Report Date: 08.14.2020 15:08
 Project Manager: Jessica Kramer

Analysis Requested	Lab Id: 669791-013 Field Id: D3-(2-3) Depth: 2-3 Matrix: SOIL Sampled: 08.11.2020 13:24					
BTEX by EPA 8021B SUB: T104704400-20-21	Extracted: 08.13.2020 16:00 Analyzed: 08.14.2020 04:32 Units/RL: mg/kg RL					
Benzene	<0.00201 0.00201					
Toluene	<0.00201 0.00201					
Ethylbenzene	<0.00201 0.00201					
m,p-Xylenes	<0.00402 0.00402					
o-Xylene	<0.00201 0.00201					
Xylenes, Total	<0.00201 0.00201					
Total BTEX	<0.00201 0.00201					
Chloride by EPA 300 SUB: T104704400-20-21	Extracted: 08.13.2020 10:45 Analyzed: 08.13.2020 13:48 Units/RL: mg/kg RL					
Chloride	51.0 5.00					
TPH by SW8015 Mod SUB: T104704400-20-21	Extracted: 08.13.2020 12:00 Analyzed: 08.13.2020 18:10 Units/RL: mg/kg RL					
Gasoline Range Hydrocarbons (GRO)	<49.9 49.9					
Diesel Range Organics (DRO)	<49.9 49.9					
Motor Oil Range Hydrocarbons (MRO)	<49.9 49.9					
Total TPH	<49.9 49.9					

BRL - Below Reporting Limit

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



Analytical Report 669791

for

Terracon-Lubbock

Project Manager: Joseph Guesnier

Huber Federal 10H Water Line

AR207114

08.14.2020

Collected By: Client



6701 Aberdeen, Suite 9 Lubbock, TX 79424

Xenco-Houston (EPA Lab Code: TX00122):
Texas (T104704215-20-36), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054)
Oklahoma (2019-058), North Carolina (681), Arkansas (20-035-0)

Xenco-Dallas (EPA Lab Code: TX01468):
Texas (T104704295-20-25), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-17)
Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-22)
Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19)
Xenco-Carlsbad (LELAP): Louisiana (05092)
Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-7)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tampa: Florida (E87429), North Carolina (483)



08.14.2020

Project Manager: **Joseph Guesnier**

Terracon-Lubbock

5827 50th st, Suite 1

Lubbock, TX 79424

Reference: Eurofins Xenco, LLC Report No(s): **669791**

Huber Federal 10H Water Line

Project Address:

Joseph Guesnier:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 669791. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 669791 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

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

Jessica Kramer

Project Manager

A Small Business and Minority Company

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

**Sample Cross Reference 669791****Terracon-Lubbock, Lubbock, TX**

Huber Federal 10H Water Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
I2-(4-5)	S	08.11.2020 13:00	4 - 5	669791-001
L3-(4-5)	S	08.11.2020 13:02	4 - 5	669791-002
M3-(4-5)	S	08.11.2020 13:04	4 - 5	669791-003
K3-(4-5)	S	08.11.2020 13:06	4 - 5	669791-004
G3-(4-5)	S	08.11.2020 13:08	4 - 5	669791-005
J2-(4-5)	S	08.11.2020 13:10	4 - 5	669791-006
J3-(4-5)	S	08.11.2020 13:12	4 - 5	669791-007
G2-(4-5)	S	08.11.2020 13:14	4 - 5	669791-008
M2-(4-5)	S	08.11.2020 13:16	4 - 5	669791-009
I3-(4-5)	S	08.11.2020 13:18	4 - 5	669791-010
H3-(4-5)	S	08.11.2020 13:20	4 - 5	669791-011
C3-(2-3)	S	08.11.2020 13:22	2 - 3	669791-012
D3-(2-3)	S	08.11.2020 13:24	2 - 3	669791-013



CASE NARRATIVE

Client Name: Terracon-Lubbock

Project Name: Huber Federal 10H Water Line

Project ID: AR207114
Work Order Number(s): 669791

Report Date: 08.14.2020
Date Received: 08.12.2020

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-3134447 Chloride by EPA 300

Lab Sample ID 669916-001 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: 669791-001, -002, -003, -004, -005, -006, -007, -008, -009, -010, -011, -012, -013.

The Laboratory Control Sample for Chloride is within laboratory Control Limits, therefore the data was accepted.



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **I2-(4-5)**
Lab Sample Id: 669791-001

Matrix: Soil
Date Collected: 08.11.2020 13:00

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	418	49.7	mg/kg	08.13.2020 12:23		10

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 12:43	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 12:43	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 12:43	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 12:43	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	08.13.2020 12:43	
o-Terphenyl	84-15-1	95	%	70-130	08.13.2020 12:43	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **I2-(4-5)**
Lab Sample Id: 669791-001

Matrix: Soil
Date Collected: 08.11.2020 13:00

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.13.2020 23:24	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.13.2020 23:24	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.13.2020 23:24	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.13.2020 23:24	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.13.2020 23:24	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	08.13.2020 23:24	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.13.2020 23:24	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.13.2020 23:24	
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.13.2020 23:24	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **L3-(4-5)**
Lab Sample Id: 669791-002

Matrix: Soil
Date Collected: 08.11.2020 13:02

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	148	25.0	mg/kg	08.13.2020 12:29		5

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 13:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 13:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 13:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 13:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	110	%	70-130	08.13.2020 13:48	
o-Terphenyl	84-15-1	111	%	70-130	08.13.2020 13:48	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **L3-(4-5)**
Lab Sample Id: 669791-002

Matrix: Soil
Date Collected: 08.11.2020 13:02

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.13.2020 23:45	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.13.2020 23:45	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.13.2020 23:45	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.13.2020 23:45	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.13.2020 23:45	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	08.13.2020 23:45	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.13.2020 23:45	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.13.2020 23:45	
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.13.2020 23:45	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **M3-(4-5)**
Lab Sample Id: 669791-003

Matrix: Soil
Date Collected: 08.11.2020 13:04

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	93.1	49.5	mg/kg	08.13.2020 12:34		10

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 14:09	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 14:09	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 14:09	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 14:09	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	105	%	70-130	08.13.2020 14:09	
o-Terphenyl	84-15-1	103	%	70-130	08.13.2020 14:09	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **M3-(4-5)**
Lab Sample Id: 669791-003

Matrix: Soil
Date Collected: 08.11.2020 13:04

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00202	0.00202	mg/kg	08.14.2020 00:05	U	1
Toluene	108-88-3	<0.00202	0.00202	mg/kg	08.14.2020 00:05	U	1
Ethylbenzene	100-41-4	<0.00202	0.00202	mg/kg	08.14.2020 00:05	U	1
m,p-Xylenes	179601-23-1	<0.00403	0.00403	mg/kg	08.14.2020 00:05	U	1
o-Xylene	95-47-6	<0.00202	0.00202	mg/kg	08.14.2020 00:05	U	1
Xylenes, Total	1330-20-7	<0.00202	0.00202	mg/kg	08.14.2020 00:05	U	1
Total BTEX		<0.00202	0.00202	mg/kg	08.14.2020 00:05	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.14.2020 00:05		
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.14.2020 00:05		



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **K3-(4-5)**
Lab Sample Id: 669791-004

Matrix: Soil
Date Collected: 08.11.2020 13:06

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	55.7	24.9	mg/kg	08.13.2020 12:39	X	5

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 14:31	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 14:31	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 14:31	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 14:31	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	08.13.2020 14:31	
o-Terphenyl	84-15-1	107	%	70-130	08.13.2020 14:31	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **K3-(4-5)**
Lab Sample Id: 669791-004

Matrix: Soil
Date Collected: 08.11.2020 13:06

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 00:26	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 00:26	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 00:26	U	1
m,p-Xylenes	179601-23-1	<0.00399	0.00399	mg/kg	08.14.2020 00:26	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 00:26	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 00:26	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 00:26	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.14.2020 00:26		
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.14.2020 00:26		



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **G3-(4-5)**
Lab Sample Id: 669791-005

Matrix: Soil
Date Collected: 08.11.2020 13:08

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	95.4	49.5	mg/kg	08.13.2020 12:55		10

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 14:53	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 14:53	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 14:53	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 14:53	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	101	%	70-130	08.13.2020 14:53	
o-Terphenyl	84-15-1	102	%	70-130	08.13.2020 14:53	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **G3-(4-5)**
Lab Sample Id: 669791-005

Matrix: Soil
Date Collected: 08.11.2020 13:08

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00200	0.00200	mg/kg	08.14.2020 00:46	U	1
Toluene	108-88-3	<0.00200	0.00200	mg/kg	08.14.2020 00:46	U	1
Ethylbenzene	100-41-4	<0.00200	0.00200	mg/kg	08.14.2020 00:46	U	1
m,p-Xylenes	179601-23-1	<0.00400	0.00400	mg/kg	08.14.2020 00:46	U	1
o-Xylene	95-47-6	<0.00200	0.00200	mg/kg	08.14.2020 00:46	U	1
Xylenes, Total	1330-20-7	<0.00200	0.00200	mg/kg	08.14.2020 00:46	U	1
Total BTEX		<0.00200	0.00200	mg/kg	08.14.2020 00:46	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.14.2020 00:46		
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.14.2020 00:46		



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: J2-(4-5)
Lab Sample Id: 669791-006

Matrix: Soil
Date Collected: 08.11.2020 13:10

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	91.2	50.4	mg/kg	08.13.2020 13:00		10

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 15:15	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 15:15	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 15:15	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 15:15	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	08.13.2020 15:15	
o-Terphenyl	84-15-1	107	%	70-130	08.13.2020 15:15	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: J2-(4-5)
Lab Sample Id: 669791-006

Matrix: Soil
Date Collected: 08.11.2020 13:10

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.14.2020 01:06	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.14.2020 01:06	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.14.2020 01:06	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.14.2020 01:06	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.14.2020 01:06	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	08.14.2020 01:06	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.14.2020 01:06	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.14.2020 01:06		
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.14.2020 01:06		



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: J3-(4-5)
Lab Sample Id: 669791-007

Matrix: Soil
Date Collected: 08.11.2020 13:12

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	86.6	49.9	mg/kg	08.13.2020 13:16		10

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.13.2020 15:37	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.13.2020 15:37	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.13.2020 15:37	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.13.2020 15:37	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	08.13.2020 15:37	
o-Terphenyl	84-15-1	109	%	70-130	08.13.2020 15:37	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: J3-(4-5)
Lab Sample Id: 669791-007

Matrix: Soil
Date Collected: 08.11.2020 13:12

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.14.2020 01:27	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.14.2020 01:27	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.14.2020 01:27	U	1
m,p-Xylenes	179601-23-1	<0.00397	0.00397	mg/kg	08.14.2020 01:27	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.14.2020 01:27	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	08.14.2020 01:27	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.14.2020 01:27	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.14.2020 01:27		
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.14.2020 01:27		



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **G2-(4-5)**
Lab Sample Id: 669791-008

Matrix: Soil
Date Collected: 08.11.2020 13:14

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	283	50.2	mg/kg	08.13.2020 13:21		10

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 15:59	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 15:59	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 15:59	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 15:59	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	112	%	70-130	08.13.2020 15:59	
o-Terphenyl	84-15-1	107	%	70-130	08.13.2020 15:59	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **G2-(4-5)**
Lab Sample Id: 669791-008

Matrix: Soil
Date Collected: 08.11.2020 13:14

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.14.2020 01:47	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.14.2020 01:47	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.14.2020 01:47	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.14.2020 01:47	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.14.2020 01:47	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	08.14.2020 01:47	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.14.2020 01:47	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.14.2020 01:47	
4-Bromofluorobenzene	460-00-4	106	%	70-130	08.14.2020 01:47	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **M2-(4-5)**
Lab Sample Id: 669791-009

Matrix: Soil
Date Collected: 08.11.2020 13:16

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	240	49.6	mg/kg	08.13.2020 13:27		10

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	08.13.2020 16:20	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.8	49.8	mg/kg	08.13.2020 16:20	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.8	49.8	mg/kg	08.13.2020 16:20	U	1
Total TPH	PHC635	<49.8	49.8	mg/kg	08.13.2020 16:20	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	108	%	70-130	08.13.2020 16:20	
o-Terphenyl	84-15-1	105	%	70-130	08.13.2020 16:20	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **M2-(4-5)**
Lab Sample Id: 669791-009

Matrix: Soil
Date Collected: 08.11.2020 13:16

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00198	0.00198	mg/kg	08.14.2020 02:08	U	1
Toluene	108-88-3	<0.00198	0.00198	mg/kg	08.14.2020 02:08	U	1
Ethylbenzene	100-41-4	<0.00198	0.00198	mg/kg	08.14.2020 02:08	U	1
m,p-Xylenes	179601-23-1	<0.00396	0.00396	mg/kg	08.14.2020 02:08	U	1
o-Xylene	95-47-6	<0.00198	0.00198	mg/kg	08.14.2020 02:08	U	1
Xylenes, Total	1330-20-7	<0.00198	0.00198	mg/kg	08.14.2020 02:08	U	1
Total BTEX		<0.00198	0.00198	mg/kg	08.14.2020 02:08	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	104	%	70-130	08.14.2020 02:08		
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.14.2020 02:08		



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **I3-(4-5)**
Lab Sample Id: 669791-010

Matrix: Soil
Date Collected: 08.11.2020 13:18

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	184	49.8	mg/kg	08.13.2020 13:32		10

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 16:42	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 16:42	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 16:42	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 16:42	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	103	%	70-130	08.13.2020 16:42	
o-Terphenyl	84-15-1	100	%	70-130	08.13.2020 16:42	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **I3-(4-5)**
Lab Sample Id: 669791-010

Matrix: Soil
Date Collected: 08.11.2020 13:18

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.14.2020 02:28	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.14.2020 02:28	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.14.2020 02:28	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.14.2020 02:28	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.14.2020 02:28	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	08.14.2020 02:28	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.14.2020 02:28	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1,4-Difluorobenzene	540-36-3	105	%	70-130	08.14.2020 02:28	
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.14.2020 02:28	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **H3-(4-5)**
Lab Sample Id: 669791-011

Matrix: Soil
Date Collected: 08.11.2020 13:20

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	91.0	50.3	mg/kg	08.13.2020 13:37		10

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 17:26	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 17:26	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 17:26	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 17:26	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	08.13.2020 17:26	
o-Terphenyl	84-15-1	116	%	70-130	08.13.2020 17:26	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **H3-(4-5)**
Lab Sample Id: 669791-011

Matrix: Soil
Date Collected: 08.11.2020 13:20

Date Received: 08.12.2020 09:26
Sample Depth: 4 - 5

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00199	0.00199	mg/kg	08.14.2020 03:51	U	1
Toluene	108-88-3	<0.00199	0.00199	mg/kg	08.14.2020 03:51	U	1
Ethylbenzene	100-41-4	<0.00199	0.00199	mg/kg	08.14.2020 03:51	U	1
m,p-Xylenes	179601-23-1	<0.00398	0.00398	mg/kg	08.14.2020 03:51	U	1
o-Xylene	95-47-6	<0.00199	0.00199	mg/kg	08.14.2020 03:51	U	1
Xylenes, Total	1330-20-7	<0.00199	0.00199	mg/kg	08.14.2020 03:51	U	1
Total BTEX		<0.00199	0.00199	mg/kg	08.14.2020 03:51	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
4-Bromofluorobenzene	460-00-4	107	%	70-130	08.14.2020 03:51	
1,4-Difluorobenzene	540-36-3	103	%	70-130	08.14.2020 03:51	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: C3-(2-3)
Lab Sample Id: 669791-012

Matrix: Soil
Date Collected: 08.11.2020 13:22

Date Received: 08.12.2020 09:26
Sample Depth: 2 - 3

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	32.4	5.00	mg/kg	08.13.2020 13:42		1

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	08.13.2020 17:48	U	1
Diesel Range Organics (DRO)	C10C28DRO	<50.0	50.0	mg/kg	08.13.2020 17:48	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<50.0	50.0	mg/kg	08.13.2020 17:48	U	1
Total TPH	PHC635	<50.0	50.0	mg/kg	08.13.2020 17:48	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	115	%	70-130	08.13.2020 17:48	
o-Terphenyl	84-15-1	106	%	70-130	08.13.2020 17:48	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: C3-(2-3)
Lab Sample Id: 669791-012

Matrix: Soil
Date Collected: 08.11.2020 13:22

Date Received: 08.12.2020 09:26
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.14.2020 04:12	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.14.2020 04:12	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.14.2020 04:12	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.14.2020 04:12	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.14.2020 04:12	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	08.14.2020 04:12	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.14.2020 04:12	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene	460-00-4	108	%	70-130	08.14.2020 04:12		
1,4-Difluorobenzene	540-36-3	104	%	70-130	08.14.2020 04:12		



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **D3-(2-3)**
Lab Sample Id: 669791-013

Matrix: Soil
Date Collected: 08.11.2020 13:24

Date Received: 08.12.2020 09:26
Sample Depth: 2 - 3

Analytical Method: Chloride by EPA 300

Tech: CHE

Analyst: CHE

Seq Number: 3134447

Date Prep: 08.13.2020 10:45

Prep Method: E300P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	51.0	5.00	mg/kg	08.13.2020 13:48		1

Analytical Method: TPH by SW8015 Mod

Tech: DVM

Analyst: ALA

Seq Number: 3134552

Date Prep: 08.13.2020 12:00

Prep Method: SW8015P

% Moisture:

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	08.13.2020 18:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	<49.9	49.9	mg/kg	08.13.2020 18:10	U	1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	<49.9	49.9	mg/kg	08.13.2020 18:10	U	1
Total TPH	PHC635	<49.9	49.9	mg/kg	08.13.2020 18:10	U	1

Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	104	%	70-130	08.13.2020 18:10	
o-Terphenyl	84-15-1	101	%	70-130	08.13.2020 18:10	



Certificate of Analytical Results 669791

Terracon-Lubbock, Lubbock, TX

Huber Federal 10H Water Line

Sample Id: **D3-(2-3)**
Lab Sample Id: 669791-013

Matrix: Soil
Date Collected: 08.11.2020 13:24

Date Received: 08.12.2020 09:26
Sample Depth: 2 - 3

Analytical Method: BTEX by EPA 8021B

Tech: KTL

Analyst: KTL

Seq Number: 3134542

Prep Method: SW5035A

% Moisture:

Date Prep: 08.13.2020 16:00

Basis: Wet Weight

SUB: T104704400-20-21

Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Benzene	71-43-2	<0.00201	0.00201	mg/kg	08.14.2020 04:32	U	1
Toluene	108-88-3	<0.00201	0.00201	mg/kg	08.14.2020 04:32	U	1
Ethylbenzene	100-41-4	<0.00201	0.00201	mg/kg	08.14.2020 04:32	U	1
m,p-Xylenes	179601-23-1	<0.00402	0.00402	mg/kg	08.14.2020 04:32	U	1
o-Xylene	95-47-6	<0.00201	0.00201	mg/kg	08.14.2020 04:32	U	1
Xylenes, Total	1330-20-7	<0.00201	0.00201	mg/kg	08.14.2020 04:32	U	1
Total BTEX		<0.00201	0.00201	mg/kg	08.14.2020 04:32	U	1
Surrogate	Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1,4-Difluorobenzene	540-36-3	106	%	70-130	08.14.2020 04:32		
4-Bromofluorobenzene	460-00-4	108	%	70-130	08.14.2020 04:32		

Flagging Criteria

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

** Surrogate recovered outside laboratory control limit.

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

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

SMP Client Sample **BLK** Method Blank

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

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

+ NELAC certification not offered for this compound.

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



Terracon-Lubbock

Huber Federal 10H Water Line

Analytical Method: Chloride by EPA 300

Seq Number: 3134447

MB Sample Id: 7709381-1-BLK

Matrix: Solid

LCS Sample Id: 7709381-1-BKS

Prep Method: E300P

Date Prep: 08.13.2020

LCSD Sample Id: 7709381-1-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	243	97	242	97	90-110	0	20	mg/kg	08.13.2020 11:00	

Analytical Method: Chloride by EPA 300

Seq Number: 3134447

Parent Sample Id: 669791-004

Matrix: Soil

MS Sample Id: 669791-004 S

Prep Method: E300P

Date Prep: 08.13.2020

MSD Sample Id: 669791-004 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	55.7	1240	917	69	918	70	90-110	0	20	mg/kg	08.13.2020 12:45	X

Analytical Method: Chloride by EPA 300

Seq Number: 3134447

Parent Sample Id: 669916-001

Matrix: Soil

MS Sample Id: 669916-001 S

Prep Method: E300P

Date Prep: 08.13.2020

MSD Sample Id: 669916-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride	94.7	252	359	105	360	105	90-110	0	20	mg/kg	08.13.2020 11:16	

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134552

MB Sample Id: 7709435-1-BLK

Matrix: Solid

LCS Sample Id: 7709435-1-BKS

Prep Method: SW8015P

Date Prep: 08.13.2020

LCSD Sample Id: 7709435-1-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	919	92	924	92	70-130	1	20	mg/kg	08.13.2020 12:00	
Diesel Range Organics (DRO)	<50.0	1000	965	97	979	98	70-130	1	20	mg/kg	08.13.2020 12:00	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	123		111		111		70-130	%	08.13.2020 12:00
o-Terphenyl	119		109		104		70-130	%	08.13.2020 12:00

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134552

Matrix: Solid

MB Sample Id: 7709435-1-BLK

Prep Method: SW8015P

Date Prep: 08.13.2020

Parameter	MB Result	Units	Analysis Date	Flag
Motor Oil Range Hydrocarbons (MRO)	<50.0	mg/kg	08.13.2020 11:38	

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



Terracon-Lubbock

Huber Federal 10H Water Line

Analytical Method: TPH by SW8015 Mod

Seq Number: 3134552

Parent Sample Id: 669791-001

Matrix: Soil

MS Sample Id: 669791-001 S

Prep Method: SW8015P

Date Prep: 08.13.2020

MSD Sample Id: 669791-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbons (GRO)	<49.9	997	939	94	963	97	70-130	3	20	mg/kg	08.13.2020 13:04	
Diesel Range Organics (DRO)	<49.9	997	1030	103	1090	109	70-130	6	20	mg/kg	08.13.2020 13:04	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1-Chlorooctane	118		120		70-130	%	08.13.2020 13:04
o-Terphenyl	101		108		70-130	%	08.13.2020 13:04

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134542

MB Sample Id: 7709445-1-BLK

Matrix: Solid

LCS Sample Id: 7709445-1-BKS

Prep Method: SW5035A

Date Prep: 08.13.2020

LCSD Sample Id: 7709445-1-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	0.108	108	0.107	107	70-130	1	35	mg/kg	08.13.2020 21:02	
Toluene	<0.00200	0.100	0.112	112	0.114	114	70-130	2	35	mg/kg	08.13.2020 21:02	
Ethylbenzene	<0.00200	0.100	0.0970	97	0.0972	97	70-130	0	35	mg/kg	08.13.2020 21:02	
m,p-Xylenes	<0.00400	0.200	0.195	98	0.197	99	70-130	1	35	mg/kg	08.13.2020 21:02	
o-Xylene	<0.00200	0.100	0.0975	98	0.0977	98	70-130	0	35	mg/kg	08.13.2020 21:02	

Surrogate	MB %Rec	MB Flag	LCS %Rec	LCS Flag	LCSD %Rec	LCSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	103		100		101		70-130	%	08.13.2020 21:02
4-Bromofluorobenzene	103		100		102		70-130	%	08.13.2020 21:02

Analytical Method: BTEX by EPA 8021B

Seq Number: 3134542

Parent Sample Id: 669791-001

Matrix: Soil

MS Sample Id: 669791-001 S

Prep Method: SW5035A

Date Prep: 08.13.2020

MSD Sample Id: 669791-001 SD

Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	<0.00199	0.0996	0.0896	90	0.0917	92	70-130	2	35	mg/kg	08.13.2020 21:42	
Toluene	<0.00199	0.0996	0.0961	96	0.0989	99	70-130	3	35	mg/kg	08.13.2020 21:42	
Ethylbenzene	<0.00199	0.0996	0.0822	83	0.0842	85	70-130	2	35	mg/kg	08.13.2020 21:42	
m,p-Xylenes	<0.00398	0.199	0.165	83	0.169	85	70-130	2	35	mg/kg	08.13.2020 21:42	
o-Xylene	<0.00199	0.0996	0.0804	81	0.0823	83	70-130	2	35	mg/kg	08.13.2020 21:42	

Surrogate	MS %Rec	MS Flag	MSD %Rec	MSD Flag	Limits	Units	Analysis Date
1,4-Difluorobenzene	101		99		70-130	%	08.13.2020 21:42
4-Bromofluorobenzene	103		103		70-130	%	08.13.2020 21:42

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

Final 1,000

Inter-Office Shipment

IOS Number : **68648**

Date/Time: 08.12.2020

Created by: Michael J Turner

Please send report to: Jessica Kramer

Lab# From: **Lubbock**

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: **Midland**

Air Bill No.:

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
669791-001	S	I2-(4-5)	08.11.2020 13:00	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-001	S	I2-(4-5)	08.11.2020 13:00	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-001	S	I2-(4-5)	08.11.2020 13:00	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C35	
669791-002	S	L3-(4-5)	08.11.2020 13:02	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-002	S	L3-(4-5)	08.11.2020 13:02	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C35	
669791-002	S	L3-(4-5)	08.11.2020 13:02	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-003	S	M3-(4-5)	08.11.2020 13:04	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-003	S	M3-(4-5)	08.11.2020 13:04	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C35	
669791-003	S	M3-(4-5)	08.11.2020 13:04	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-004	S	K3-(4-5)	08.11.2020 13:06	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-004	S	K3-(4-5)	08.11.2020 13:06	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C35	
669791-004	S	K3-(4-5)	08.11.2020 13:06	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-005	S	G3-(4-5)	08.11.2020 13:08	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C35	
669791-005	S	G3-(4-5)	08.11.2020 13:08	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-005	S	G3-(4-5)	08.11.2020 13:08	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-006	S	J2-(4-5)	08.11.2020 13:10	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-006	S	J2-(4-5)	08.11.2020 13:10	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C35	
669791-006	S	J2-(4-5)	08.11.2020 13:10	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-007	S	J3-(4-5)	08.11.2020 13:12	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C35	
669791-007	S	J3-(4-5)	08.11.2020 13:12	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-007	S	J3-(4-5)	08.11.2020 13:12	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-008	S	G2-(4-5)	08.11.2020 13:14	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-008	S	G2-(4-5)	08.11.2020 13:14	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-008	S	G2-(4-5)	08.11.2020 13:14	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C35	
669791-009	S	M2-(4-5)	08.11.2020 13:16	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	

Inter-Office Shipment

IOS Number : **68648**

Date/Time: 08.12.2020

Created by: Michael J Turner

Please send report to: Jessica Kramer

Lab# From: **Lubbock**

Delivery Priority:

Address: 6701 Aberdeen, Suite 9 Lubbock, TX 79424

Lab# To: **Midland**

Air Bill No.:

E-Mail: jessica.kramer@xenco.com

Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
669791-009	S	M2-(4-5)	08.11.2020 13:16	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-009	S	M2-(4-5)	08.11.2020 13:16	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C3	
669791-010	S	I3-(4-5)	08.11.2020 13:18	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-010	S	I3-(4-5)	08.11.2020 13:18	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-010	S	I3-(4-5)	08.11.2020 13:18	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C3	
669791-011	S	H3-(4-5)	08.11.2020 13:20	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-011	S	H3-(4-5)	08.11.2020 13:20	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C3	
669791-011	S	H3-(4-5)	08.11.2020 13:20	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-012	S	C3-(2-3)	08.11.2020 13:22	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-012	S	C3-(2-3)	08.11.2020 13:22	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C3	
669791-012	S	C3-(2-3)	08.11.2020 13:22	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-013	S	D3-(2-3)	08.11.2020 13:24	E300_CL	Chloride by EPA 300	08.14.2020	09.08.2020	JKR	CL	
669791-013	S	D3-(2-3)	08.11.2020 13:24	SW8021B	BTEX by EPA 8021B	08.14.2020	08.25.2020	JKR	BR4FBZ BZ BZME EBZ	
669791-013	S	D3-(2-3)	08.11.2020 13:24	SW8015MOD_NM	TPH by SW8015 Mod	08.14.2020	08.25.2020	JKR	PHCC10C28 PHCC28C3	

Inter Office Shipment or Sample Comments:

Relinquished By:



Michael J Turner

Date Relinquished: 08.12.2020

Received By:



Brianna Teel

Date Received: 08.13.2020

Cooler Temperature: 0.1



Inter Office Report- Sample Receipt Checklist

Sent To: Midland

IOS #: 68648

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-8

Sent By: Michael J Turner

Date Sent: 08.12.2020 09.50 AM

Received By: Brianna Teel

Date Received: 08.13.2020 10.40 AM

Sample Receipt Checklist

Comments

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

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

NonConformance:

Corrective Action Taken:

Nonconformance Documentation

Contact: _____ Contacted by : _____ Date: _____

Checklist reviewed by:

Brianna Teel

Date: 08.13.2020

Eurofins Xenco, LLC

Prelogin/Nonconformance Report- Sample Log-In

Client: Terracon-Lubbock

Date/ Time Received: 08.12.2020 09.26.00 AM

Work Order #: 669791

Acceptable Temperature Range: 0 - 6 degC

Air and Metal samples Acceptable Range: Ambient

Temperature Measuring device used : IR-4

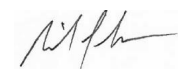
Sample Receipt Checklist	Comments
#1 *Temperature of cooler(s)?	5.9
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles?	N/A
#6 *Custody Seals Signed and dated?	N/A
#7 *Chain 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)?	Yes Xenco Midland
#18 Water VOC samples have zero headspace?	N/A

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

Analyst:

PH Device/Lot#:

Checklist completed by:



Michael J Turner

Date: 08.12.2020

Checklist reviewed by:



Jessica Kramer

Date: 08.12.2020

APPENDIX D – TERRACON STANDARD OF CARE, LIMITATION, AND RELIANCE

Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time. Terracon makes no warranties, either express or implied, regarding the findings, conclusions, or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies, or other third parties supplying information used in the preparation of the report. These services were performed in accordance with the scope of work agreed with you, Solaris Water Midstream, as reflected in our proposal (PA4197040).

Additional Scope Limitations

Development of this RAP is based upon information provided by the Client and Terracon's remediation and construction services line. Such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable, or not present during these services. We cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those by information provided by the Client. The data, interpretations, findings, and our recommendations are based solely upon reformation executed within the scope of these services.

Reliance

This report has been prepared for the exclusive use of Spur Energy Partners, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Spur Energy Partners and Terracon. Any unauthorized distribution or reuse is at Spur Energy Partner's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the proposal and Spur Energy Partners and Terracon's Master Services Agreement. The limitation of liability defined in the terms and conditions is the aggregate limit of Terracon's liability to Spur Energy Partners and all relying parties unless otherwise agreed in writing.

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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 19610

CONDITIONS OF APPROVAL

Operator: SPUR ENERGY PARTNERS LLC Suite 500 Houston, TX77024	9655 Katy Freeway	OGRID: 328947	Action Number: 19610	Action Type: C-141
OCD Reviewer chensley	Condition None			